CHRIST
(DEEMED TO BE UNIVERSITY)
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Infobahn

Infobahn

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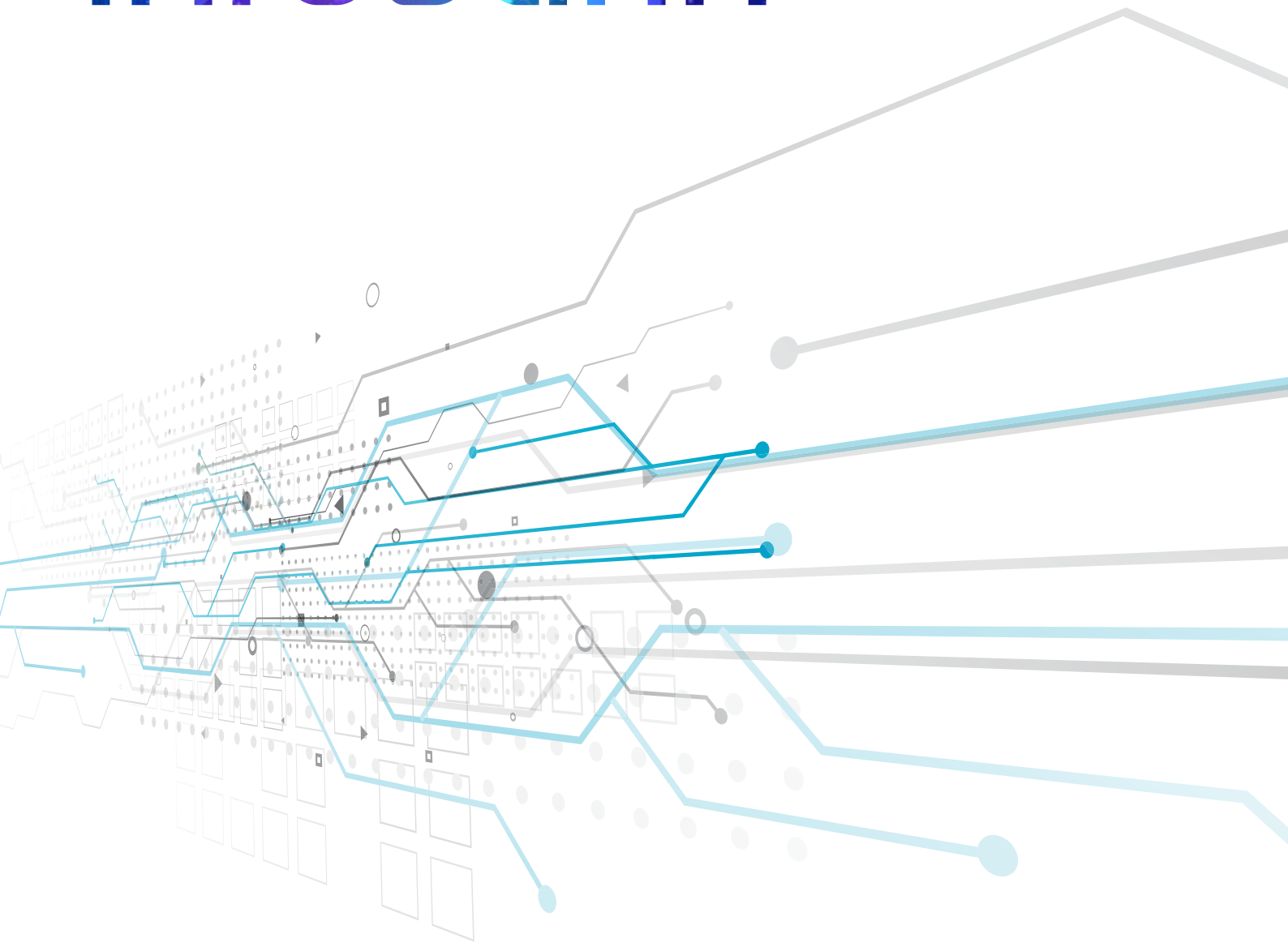
Infobahn



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Vice Chancellor's Message

Dr Fr Jose C C
Vice Chancellor

At CHRIST (Deemed to be University), we believe that student success is achieved through a holistic approach—one that combines the acquisition of essential skills, the adoption of innovative technology, and the cultivation of a forward-looking mindset. Our students are guided by a multi-pronged framework that seamlessly interweaves centuries-old educational methodologies with practice-based learning and real-world applications. This ensures that they develop the capability, flexibility, and agility required to thrive in adversity and to innovate in times of disruption.

The postgraduate students of the Department of Computer Science have embodied this vision through their remarkable engagement with the Infobahn platform. By leveraging Infobahn to assess their abilities, talents, and subject matter expertise, they sharpen their own skills and also contribute meaningfully to the larger community. Their ability to apply theoretical knowledge to practical contexts exemplifies the core values of our University.

The postgraduate students of the Department of Computer Science have demonstrated commendable performance through their recent achievements. By earning individual awards, overall championships, and recognition at national-level competitions, they have shown consistency, perseverance, and application of their skills. These accomplishments reflect both their commitment to learning and the culture of diligence and academic growth fostered at CHRIST (Deemed to be University).

On the occasion of the 29th volume of Infobahn, I extend my congratulations to our students and faculty. Your commitment to academic rigour, innovation, and professional excellence is commendable, and I am excited to witness the milestones you will achieve in the years to come.

Associate Dean's Message

Dr. Deepthi Das
Associate Dean, School of Sciences

CHRIST (Deemed to be University) is committed to providing a holistic, futuristic, and values-based education. We emphasize academic excellence, practical skills, ethical consciousness, and creative intelligence, ensuring our students thrive professionally and contribute to society.

The Department of Computer Science embodies this spirit, exemplified by its graduates' work. Their enthusiastic participation in projects like Infobahn demonstrates their passion for academic exploration, professional practice, and knowledge dissemination, fostering an inquisitive spirit and connecting classroom learning to the real world.

I commend the department's achievements at national and intercollegiate levels, where students consistently excel. Their victories in premier competitions, including championships, datathons, and research forums, showcase their intellectual intensity and innovative skills. These achievements reflect both individual excellence and the dedication of our faculty.

As we celebrate the 29th volume of Infobahn, I acknowledge the editorial board, authors, and mentors whose efforts have made this publication possible. I hope it continues to be a beacon of academic excellence, innovation, and collaboration.

Head of the Department's Message

Dr. Rupali Sunil Wagh
Head of the Dept.

It gives me great joy to share this edition of our Department of Computer Science magazine, Infobahn. More than just a publication, Infobahn is a celebration of the creativity, innovation, and spirit of our students, faculty, and alumni. It brings together ideas, achievements, and perspectives that reflect the vibrant energy of our department.

At the heart of our journey is the belief that education goes beyond technical expertise. While we remain deeply committed to academic excellence and research, we also encourage our students to think critically, collaborate meaningfully, and embrace lifelong learning.

Infobahn provides a wonderful opportunity to step outside the purely technical realm and explore the creative side of our community. Alongside thought-provoking articles, this edition features art, photography, and poetry—showcasing the diverse talents that make our department truly special.

I am deeply grateful to the editorial team, faculty, and students whose dedication and passion have brought this magazine to life. To our readers, I invite you to dive into its pages, discover fresh ideas, and be inspired by the enthusiasm that drives us forward.

Together, let us continue to learn, innovate, and grow as a community that makes a difference in the world of computing—and beyond.

Programme Coordinator's Message

Dr Gobi Ramasamy
Programme Coordinator

Our programs at Christ (Deemed to be University) are made to transcend beyond the classroom, fostering an atmosphere where students are inspired to think critically, investigate, and come up with new ideas. As the Program Coordinator, I like watching our students develop not just their knowledge but also their critical thinking, teamwork, and confidence in the face of adversity.

Our students have made incredible progress this year in integrating what they have learned in the classroom with practical experiences. They have shown that learning is most successful when paired with initiative and creativity through their leadership in department clubs, participation in industry-driven projects and internships, and organization of technical fests. The well-rounded development we aim to promote is reflected in our students' eagerness to participate in discussions, cultural activities, and community service.

The sense of belonging that unites us has been just as significant. Through mentorship programs, peer learning sessions, or just helping one another out, our staff and students have created a collaborative culture that benefits the department as a whole.

With tremendous eagerness, we now anticipate Gateways 2025, which will feature the theme "Neon Nexus." Our students have put in countless hours to organize this event, demonstrating their enthusiasm and resourcefulness in addition to their organizational abilities. I do not doubt that the fest will be an incredible celebration of creativity, teamwork, and our department's vibrant attitude.

As we celebrate this issue of Infobahn, I want to thank everyone who helped make it happen. More than just a magazine, it is a display of our department's dynamic energy, ideas, and abilities, as well as a window into our common journey. I am excited to watch how well our students perform going forward and exhibit the virtues of dedication, creativity, and curiosity.

From the Editorial Team's Desk

"Infobahn," the bi-annual journal of CHRIST's (Deemed to be University) Department of Computer Science, is back with "Gateways". The magazine gives post-graduate students in the department another chance to showcase their abilities and knowledge in a range of fields. We are thrilled to introduce Neon Nexus, our magazine's theme for this year.

Inspired by the striking aesthetics of cyberpunk, Neon Nexus imagines a future in which people and technology coexist beneath expansive virtual worlds and bright skylines. It honors ingenuity and inventiveness as well as the connections between code, culture, and invention.

Readers are taken to a dynamic urban setting of artificial intelligence, neon-lit streets, cybernetic upgrades, and futuristic tales that challenge their preconceptions through the Neon Nexus theme.

In a machine-driven world, it captures the essence of a changing society where data, dystopia, and dreams come together to redefine what it means to be human.

With that in mind, this issue of Infobahn has been crafted with a variety of content. The team has worked with great zeal and support from both faculty and students. We invite and implore you to take some time, perhaps with a cup of coffee in hand, and read through the magazine. Every page is the product of your hard work, creativity, and the team's dedication to bringing out the magazine. We hope you enjoy the journey as much as we did while creating it.


CyberShell
Article section

Esports: Gaming's Big Leap

Aaron Sebin
Class: 2 MCA A

A few years ago, when someone said "gaming", most people just thought of kids wasting time on PlayStations or PCs. I will admit, even I felt like that. However, things are totally different now. Esports, basically competitive gaming, has **changed how people view video games.**

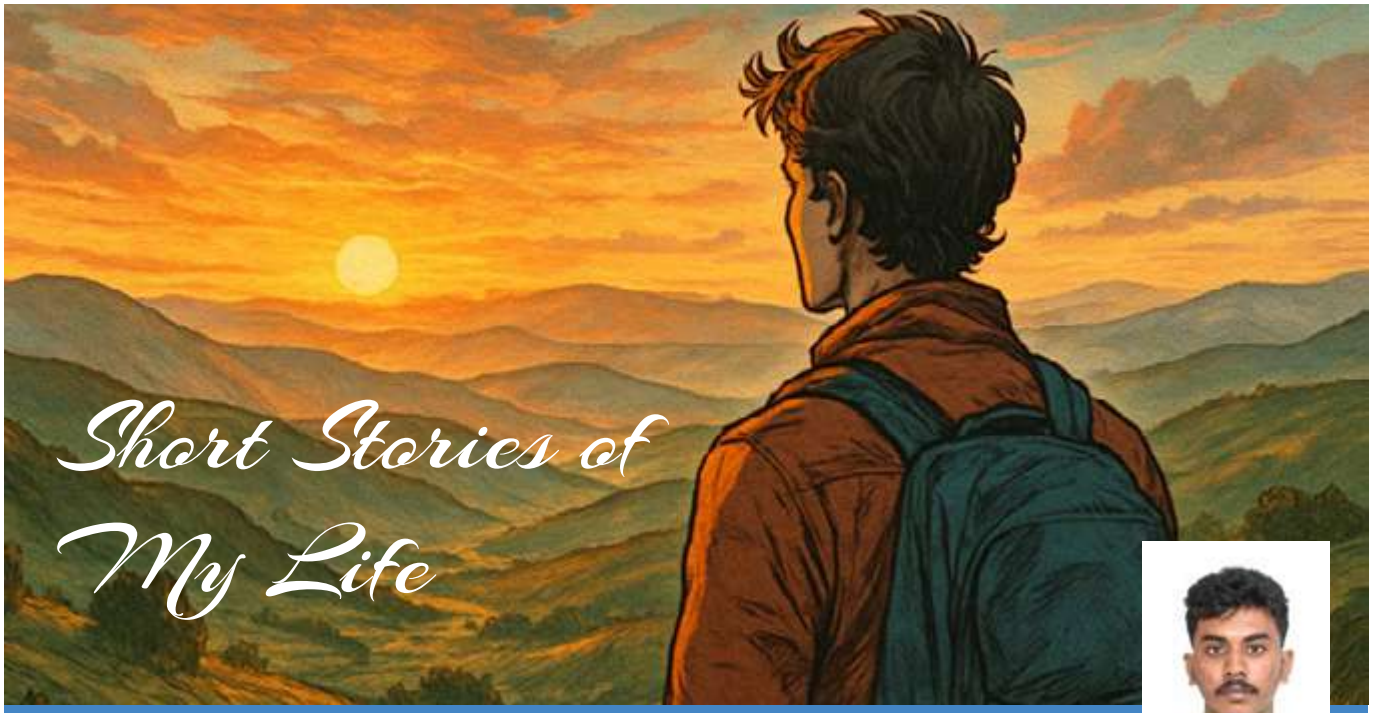
Honestly, it still surprises me how huge it has become. Games like Dota 2 and Valorant actually fill stadiums. Fans are cheering, waving banners, and shouting like in a cricket or football match. Millions more watch from home on YouTube or Twitch. And the prize money? It is wild—sometimes in the millions.

What I like most is how simple it is to start. You do not always need a ground, fancy gear, or even a team of 11. Just a decent computer, internet, and practice. That is it. I have even seen **kids from small towns making a name online.**

Moreover, here is something people forget: it is not only about playing. Esports has created other jobs, too. Streamers, commentators, analysts, event staff, and even coaches exist. Some of my friends keep saying gaming is a waste of time, but honestly, I do not agree anymore.

Of course, it is not perfect. Sitting too long can hurt health, and the pressure to perform is real. However, then again, **which sport does not have challenges?** These are issues the industry is actively working to address for player well-being.

In my view, Esports is more than "just games". It is entertainment, career, and community rolled into one. You know what? *I would not even be shocked if, one day, it became part of the Olympics.*



Short Stories of My Life

Xavier Amith J
Class: 2 MCA B

I was born and raised in a small village called Denkanikottai. Life there was simple, small tea shops where neighbours gathered to talk, tiny grocery stores where everyone knew each other, and *evenings spent watching the sun set over the fields.*

Going to school was not simple, as it meant travelling **32 km every single day,** often struggling with poor bus facilities. Coming from a humble farming family, I learned patience and perseverance early on. I finished my schooling in Hosur, and that is when I realised that if I wanted to achieve something bigger, I had to step beyond my village.

When I first moved to Bangalore to continue my studies at CALAS for my undergraduate degree, it was like stepping into another world. Back in my village, I had no idea what Bangalore was really like. I had only heard about it from others.

The first time I walked through the city's busy streets, I saw the endless traffic, tall buildings, and a crowd rushing everywhere. I thought to myself, "Is this what Bangalore is like?!" Everything felt **fast, colourful, and overwhelming,** so different from the calm, slow pace of home.

As time went on, I started to appreciate the charm within this disorder, the prospects, the vibrancy, and the variety that Bangalore presented. Nevertheless, I always carried the straightforwardness of my village in my heart, no matter where I was.

However, I constantly found myself torn: should I continue my education or begin working to help my family? **This dilemma occupied my thoughts each day.** Then, one afternoon, when I was 17, I travelled alone to KR Market. As the bus passed a particular campus, my eyes caught a board that read: "CHRIST(Deemed to be University)".

For a moment, I just stood there by the roadside, staring. I did not know why, but I felt a sudden rush of energy and confidence. In that instant, I promised myself: If I ever do my degree, it will be here.

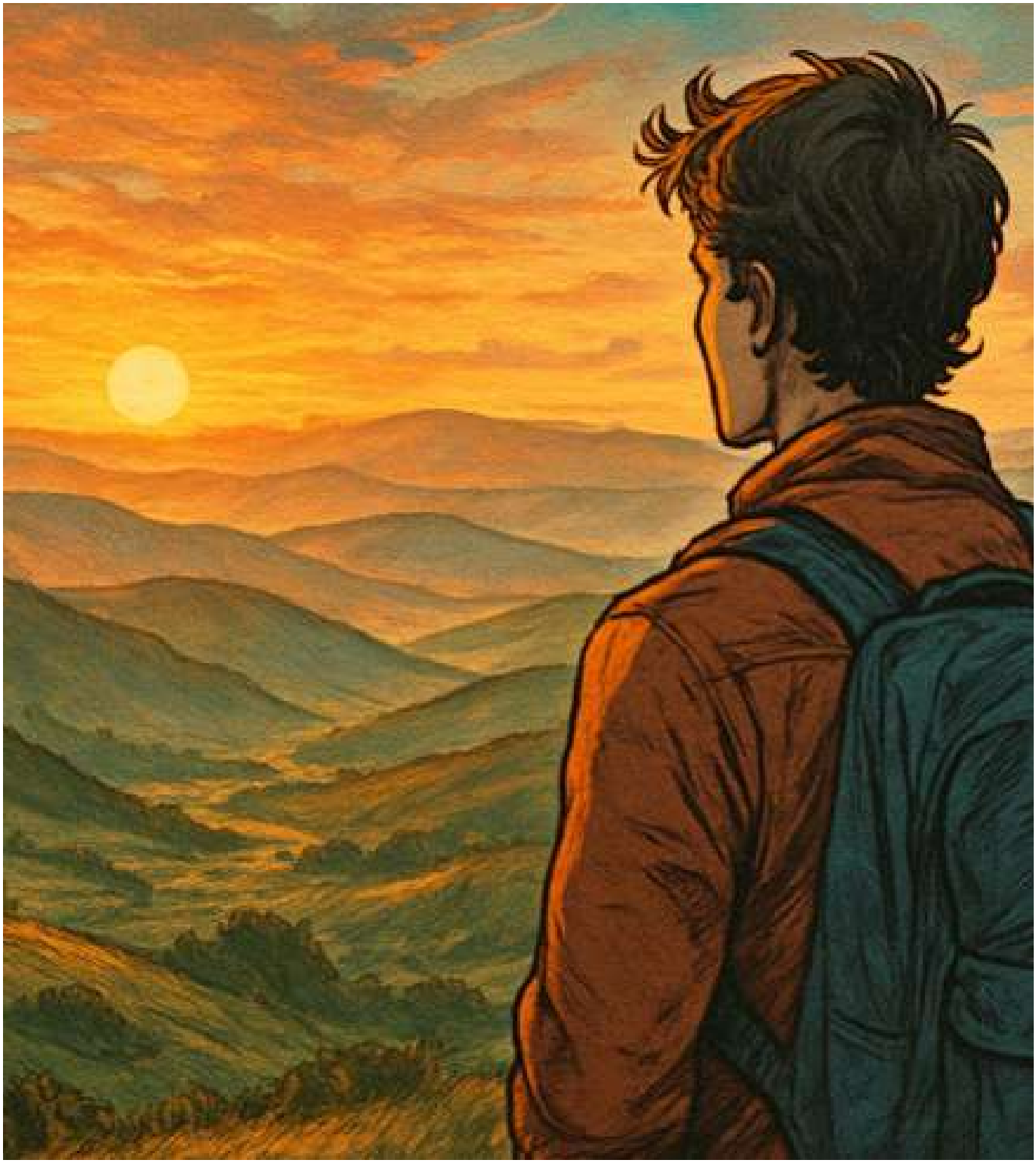
Life has a strange way of fulfilling dreams. I completed my undergrad education at Christ Academy, and then stepped into CHRIST(Deemed to be University) for my master's. My very first day, I was stunned. The vast campus, vibrant colors, the energy, the events - all of it felt like a different planet compared to my village's tea shop mornings.

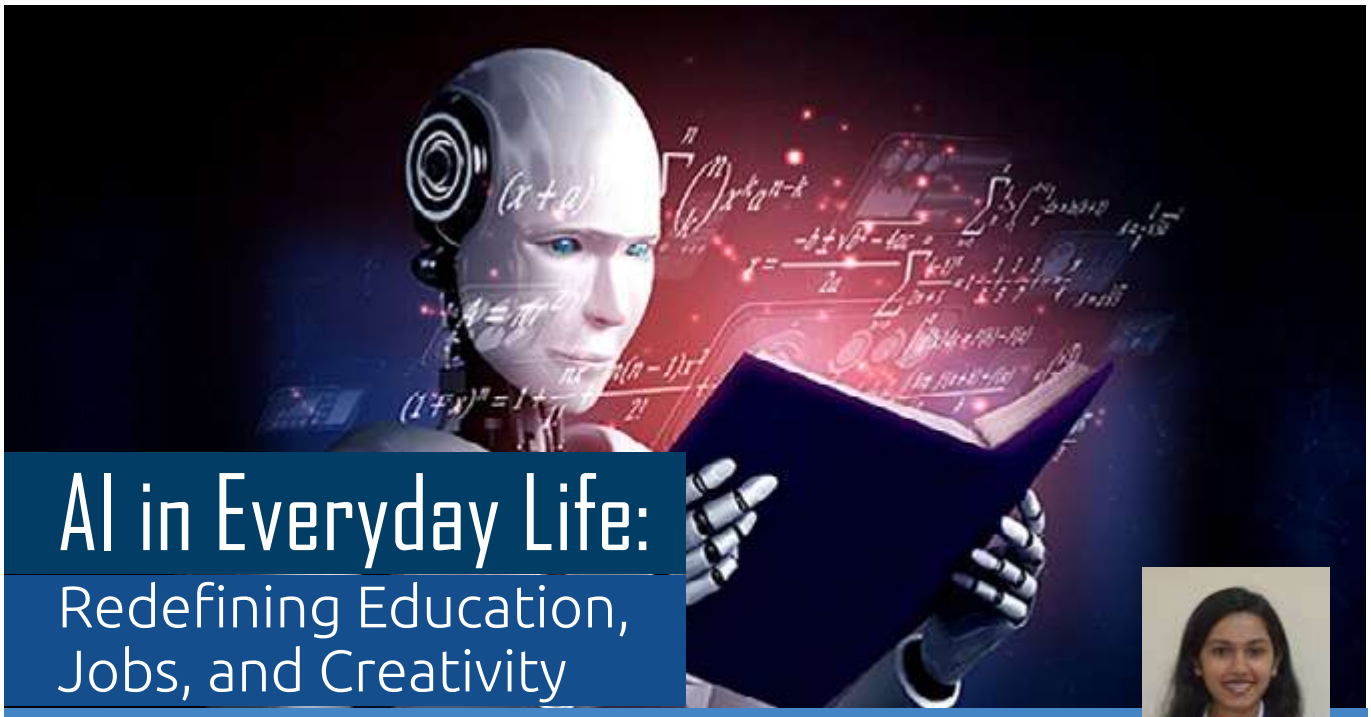
Classes were challenging, and the pressure sometimes got to me. Nevertheless, I found my own little escape, a cup of coffee from the canteen. Somehow, it brought me peace, no matter how busy the day was.

I watch short stories on YouTube daily and read about CHRIST(Deemed to be University) online. If I missed a day, something felt incomplete. So, when the master's applications opened, I did not waste a moment; I applied immediately. I still remember the **joy of being selected in the first round.**

From a rural student enduring long daily journeys, to walking confidently inside one of Bangalore's best universities, my life changed because of that *one unexpected moment when I saw that board*. Now, as I move on, every step forward, I will think and honor that pivotal moment in my life.

My journey has proven: When you dream with your heart and you act with courage, **every student from the smallest village can change the world.**





AI in Everyday Life:

Redefining Education, Jobs, and Creativity

Vaishnavi N
5 MCAB

What was once science fiction is now reality. Artificial Intelligence (AI) has moved out of research labs and into our hands—sometimes literally, through our smartphones and laptops. Whether it is Netflix recommending what to watch, Google Maps guiding us through traffic, or ChatGPT answering our queries. AI has quietly become part of our daily routines. But its impact goes far beyond convenience—it is reshaping the way we learn, work, and create.

AI in Education: A Smarter Way of Learning

Education is witnessing one of its biggest revolutions, thanks to AI.

Personalised Learning: Imagine a classroom where each student gets a lesson designed exactly for their pace and style of learning. AI-powered platforms like Coursera and Khan Academy already provide adaptive lessons that adjust according to student performance.

Virtual Mentors: Tools like ChatGPT, Duolingo, or Grammarly act as digital assistants, clarifying doubts, correcting errors, and helping students practice without hesitation.

Smart Classrooms: AI also takes care of mundane tasks such as attendance, grading, and plagiarism checks, freeing up teachers to focus on mentoring rather than paperwork.

Breaking Barriers: From text-to-speech software for the visually impaired to translation apps for language learners. AI ensures that education is more inclusive than ever before.

AI in Jobs: Changing the Future of Work

The workplace is being transformed at lightning speed.

Automation of Routine Work: Chatbots handle customer queries, AI tools schedule meetings, and algorithms process data—all tasks that once consumed human effort.

Smarter Decisions: Companies use AI to analyse massive datasets, predict market trends, and detect fraud within seconds—tasks that would take weeks for humans.

New Career Paths: Far from just "taking jobs," AI is creating new ones. Roles such as AI engineer, data analyst, and prompt designer are in high demand.

Human + AI Collaboration: Doctors use AI to analyse medical scans, but human expertise still makes the final call. Similarly, in industries, AI handles data-heavy work while humans focus on creativity and strategy.

The message is clear: the future belongs not to those who fear AI, but to those who learn to work with it.

AI in Creativity: Expanding Human Imagination

One of the most surprising areas where AI has flourished is creativity.

Art and Design: AI platforms like DALL·E generate stunning artworks from simple text prompts. Artists now use *AI as a collaborator rather than a competitor.*

Music and Literature: AI can compose melodies, assist in writing scripts, or even suggest creative plot twists. Writers and musicians use it as **a tool to refine their ideas.**

Entertainment: In cinema, AI helps with editing, special effects, and even de-ageing actors in films. Students too can use AI tools for creative presentations, project posters, or even short films.

Rather than replacing creativity, AI is **acting as a catalyst,** giving humans new ways to express their imagination.

The Challenges We Must Address

Of course, AI is not free of challenges. Concerns about *data privacy, biased algorithms, job displacement,* and over-dependence on machines are real. These issues remind us that **technology is only as good as the way we choose to use it.** With proper regulation, ethical practices, and responsible use, AI can remain a force for good.

Conclusion: Man and Machine, Together

AI is no longer an optional add-on to our lives—it is becoming a core part of how we study, work, and think. For students, it is an opportunity to learn smarter, dream bigger, and prepare for careers that did not exist just a decade ago.

The real power of AI lies not in replacing humans but in p**artnering with us.** If we use it wisely, AI will not just change our everyday life—it will help us **shape a brighter, smarter, and more creative future.**

The Aching Sweetness of Memories

Alan Joseph Abraham
5 MCA A

The old gate resisted his push, its rusted bottom scraping a thin line in the damp earth before creaking open. The sound was a low, metal ache, a noise he'd known since he was a boy. Leo stepped through, and the air immediately felt different, thicker, alive with smells. First, the sweet, almost cloying scent of the jasmine that had conquered the back fence, then the rich, dark smell of wet soil. It was the signature of his grandparents' garden.

The wildness nearly swallowed the house itself. A cascade of untrimmed bougainvillaea, brilliant pink even in the shade, poured down from the roof, covering one side of the porch. It stood utterly silent, its windows dark squares of glass that seemed to hold only old shadows. It was empty now, waiting for new owners, but for Leo, it was anything but.

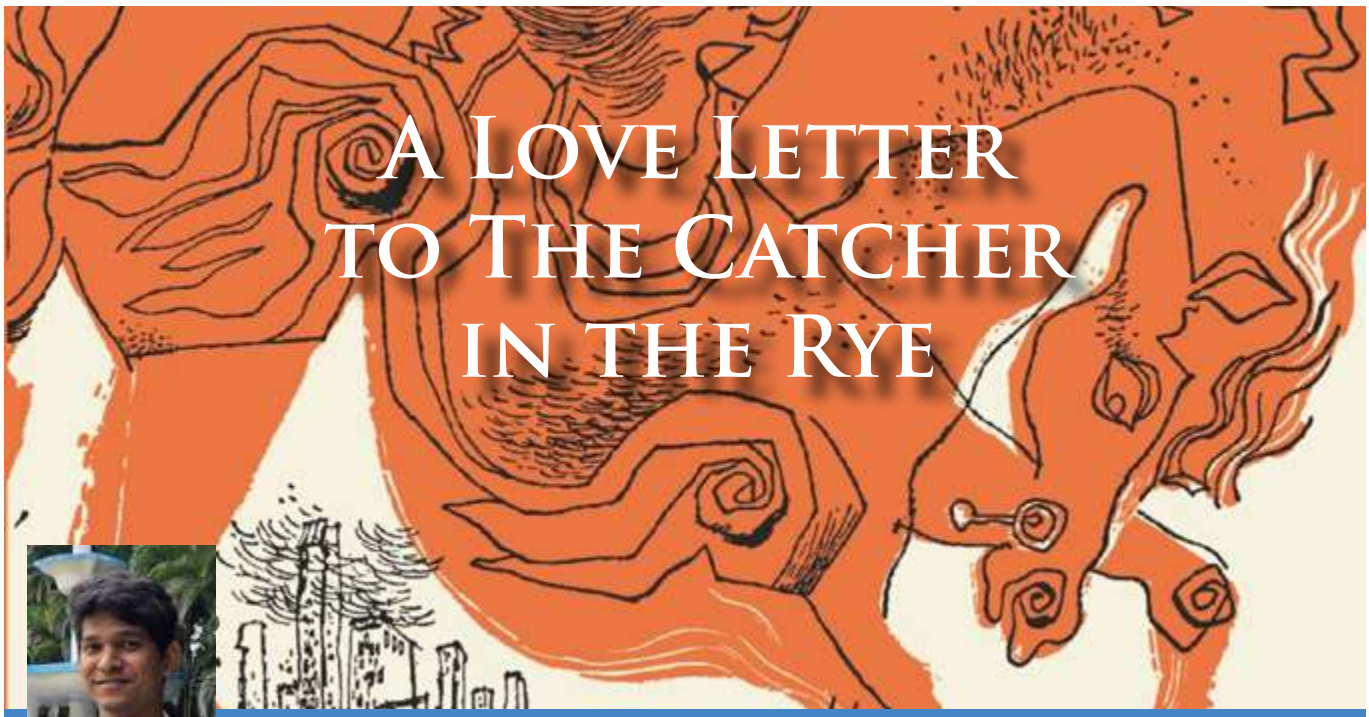
A weight settled in his chest. It was that moment—the one that still ambushed him in quiet places like this. The moment he realised, all over again, that they were gone forever. He knew, with aching certainty, he'd give anything for one more minute with them. To hold them tight and never let go. In that wave of feeling, he couldn't help but hate himself for taking every day for granted for all the phone calls he'd meant to make, the visits he'd postponed.

He pushed the feeling down and walked the cracked flagstone path, his feet remembering the way his mind did. He stopped under the broad canopy of the old mango tree, its branches gnarled like his grandfather's knuckles. The late afternoon sun shone through the leaves, dappling the ground in gold.

He closed his eyes, almost catching the fading echo of laughter, his grandmother's light giggle, his grandfather's hearty chuckle. He could almost hear them, their voices overlapping as they always had his grandfather steady, his grandmother light. One warned, the other reassured. Together, they made sense. Logic and heart.

That was his struggle right now. A job offer in a new city. The memory of their balanced wisdom settled a quiet clarity in his chest. He knew what he had to do. He could see them in the corners of his memory: his grandfather nodding in approval, and his grandmother, sitting on the porch steps, holding out a freshly cut slice of mango. "For my little wanderer", she'd say, her smile as bright as the summer sun.

With that perfect image in his mind, the memories slipped from his eyes and rolled down his cheeks. He opened his eyes. He still felt the legacy of his grandparents alive in him - the softness of his grandmother, the patience of his grandfather, and an enduring love. Not empty but fullness in their love infinite and near. From that he felt at peace.



A Love Letter to The Catcher in the Rye

Kevin Roy
Class: 5 MCA A

J.D. Salinger's "The Catcher in the Rye" isn't a story about a kid wandering around New York for a few days. It's a raw, painful picture of feeling alone, dealing with loss, and struggling to figure out who you are. Holden Caulfield is unforgettable because he embodies the raw, unfiltered confusion of being young and not quite fitting into the world you're told to join.

Holden as an Outsider

Holden hates phonies. That word gets repeated multiple times, and it's not just teenage whining; it's his way of rejecting a world that feels hollow, fake, and transactional. He talks about the hypocrisy in adults, prep schools, and even his peers.

But the irony is Holden himself is a hypocrite; he isn't immune, he lies, he contradicts himself, he dodges honesty whenever it suits him. That tension makes him compelling; he's disgusted by the world, but he's also trapped in it.

Much of Holden's restlessness stems from unresolved grief over his younger brother Allie's death. He never processes it. Instead, he channels his pain into cynicism, jokes, and constant motion. His depression isn't labelled as such in the book, but his erratic behaviour, insomnia, fixation on innocence, and longing for connection are all rooted in loss. The novel becomes a quiet study of what happens when someone tries to run from grief instead of facing it.

Innocence vs. Corruption

The title, The Catcher in the Rye, captures Holden's dream of protecting children from the corruption that is adulthood. He pictures saving kids from falling into an artificial existence. His sister Phoebe embodies the innocence he wants to preserve.

J.D. Salinger's

But the interesting part is that Holden can't even protect himself. The more he runs from adulthood, the more involved he becomes in its demands. That contradiction gives the novel its bite.

City as a Mirror

Holden's journey through New York basically involves him trying on different identities: the flirt, the rebel, the loner, the older brother, and the lost soul. Every failed encounter with old teachers, nuns, cab drivers, and dates shows how disconnected he feels.

The city doesn't save him; it just reflects his confusion. By the time he breaks down at the carousel scene, we get the sense that his only real anchor is Phoebe's simple, genuine presence.

Why It Lasts

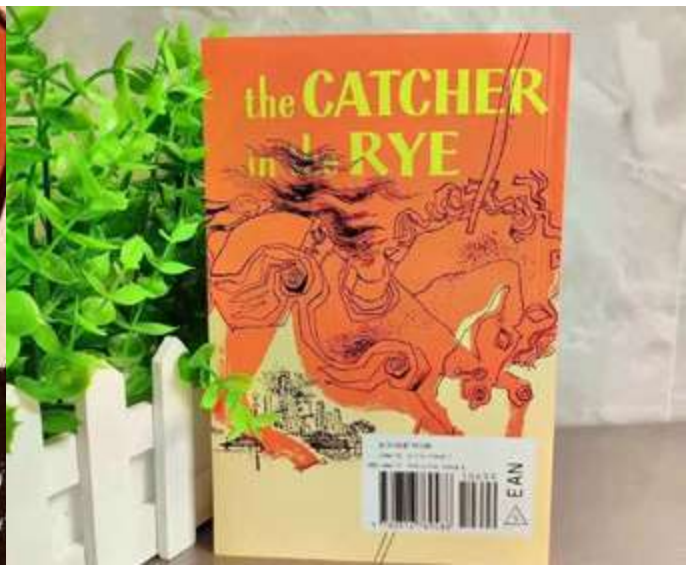
The book endures because Holden's voice still feels real. It's messy, contradictory, and brutally honest in a way most coming-of-age stories aren't. He's not a polished narrator; he's unreliable, immature, and sometimes infuriating, but that's the point. His authenticity cuts through.

The novel taps into the universal feeling of being out of step with the world, of craving authenticity in a place that thrives on masks.

The Bottom Line

The Catcher in the Rye is more than a sad story for teens. It's about grief hidden as sarcasm, innocence versus adulthood, and the struggle to find meaning in a world that feels fake.

Holden's contradictions are what make him such an interesting character; he both critiques and participates, lies and is honest, and is both a kid and an adult. The book doesn't give easy answers, and that's exactly why it sticks.



The Language of a Warming World

Xavier Amith J
Class: 2 MCA B

We are living through a failure of language. It is not just the failure to find words adequate to describe what is happening to our planet but also a *deeper failure,* the inability of our existing vocabulary to help us think clearly about the most defining challenge of our time.

Climate change, that sanitised phrase we've settled on, captures neither the scope nor the intimacy of what we're experiencing. It suggests something gradual, manageable, and distant. But there is nothing gradual about a hurricane that stalls over a city for three days. There is nothing manageable about wildfire smoke that travels three thousand miles. There is **nothing distant about the taste of ash in your morning coffee.**

The inadequacy of our language reflects the **inadequacy of our conceptual frameworks.** We are trying to understand a planetary crisis using tools designed for much smaller problems. Our economic models assume infinite growth on a finite planet. The political world is set up around *electoral timelines and the climate world operates in geological timelines.*

Our own individual psychology evolved to respond to immediate threats, not to slow-moving disasters that occur over decades. It's no surprise we're feeling confused. Think about the term "environment," as if the natural world is separate from us, something we are surrounded by, vs **something we are all part of.**

This linguistic distance reflects our psychological distance. We speak of "natural resources," as if forests and rivers only existed for our use. We speak of "ecosystem services," as if nature had a business to provide us a product. Even our more recent attempts at better language, "climate emergency," "climate crisis", still *locate the problem outside ourselves,* something happening to us rather than something we are creating.

This failure to connect is perhaps most apparent in the ways we discuss solutions such as "renewable energy", "carbon capture", and "sustainable development". Each of these terms comes with the burden of technocratic optimism, the suggestion that we can use technology to engineer our way out of this dilemma **without actually interrogating the systems that caused it.**

They suggest the problem is primarily technical rather than cultural, economic, or spiritual. They allow us to imagine that we can maintain our current way of life while simply swapping out the machinery beneath it. But what if the crisis is not just about carbon dioxide concentrations or rising sea levels? What if it comes down to the core story

we tell ourselves about our experience of being human on this planet?

Environmental writer Rebecca Solnit has suggested that climate change is **an imagination problem, not a technical one.** We cannot solve that of which we cannot see clearly, and we cannot see that which our language does not help us articulate. Indigenous languages offer other possibilities. In fact, many do not have a word that means "nature" because there is no conceptual separation in Indigenous ways of knowing human and nonhuman worlds.

The Lakota are well known for the phrase **"Mita kuye Oya s'iŋ,"** which means "all my relations." This also references kinship with animals, plants, rocks, rivers, and the whole weave of being. This is not romantic primitivism but a different way of understanding relationships and responsibility.

What would it mean to speak and think from this understanding? How would our policies change if we truly believed that rivers were our relatives rather than resources? Indigenous communities, despite being disproportionately affected by climate change impacts, are **leading some of the most effective responses to environmental degradation,** precisely because their worldview includes concepts that mainstream culture lacks.

The language we need is emerging in unexpected places. Young climate activists have coined terms like "climate grief" and "solastalgia", the distress caused by environmental change in one's home environment. These words acknowledge that climate change is not just a technical challenge but an emotional and spiritual one.

They create space for feelings that our culture has had difficulty naming: the sadness of explaining to your children why there are fewer butterflies than when you were young, the anxiety of watching weather patterns you've known your whole life become unreliable, the guilt of living in a way you know is unsustainable. Artists and writers are developing new metaphors, such as **"cli-fi,"** climate fiction that helps us imagine possible futures.

Perhaps most importantly, new language is emerging from the communities most directly affected by climate impacts. Environmental justice activists have developed concepts like **"sacrifice zones",** areas where pollution is concentrated, usually in low-income communities of colour. They use phrases like *"just transition",* ensuring that the shift to a clean energy economy does not leave workers and communities behind.

This language connects environmental protection with social justice, recognising that climate change

is not a universal human problem but one that affects different communities very differently. The path forward requires what the cognitive scientist Douglas Hofstadter calls **"semantic bootstrapping",** *using language to create new language,* using concepts to develop new concepts.

We need words that help us think beyond the false choices our current vocabulary often presents: jobs versus environment, growth versus sustainability, individual versus collective action. We need language that makes visible the connections between seemingly separate issues: **how racial justice and climate action reinforce each other,** how local food systems and global carbon cycles interact, how individual healing and planetary healing might be part of the same process.

This is not about political correctness or wordplay. Language shapes thought, and thought shapes action. The words we use to describe climate change will determine the range of responses we consider possible. If we continue to frame it primarily as a technical problem, we will continue to look primarily for technical solutions. If we begin to understand it as a crisis of a relationship, we might discover very different possibilities.

We are still learning to speak in the language that this moment requires. The magnitude of the challenge calls for **humility about what we know and openness to what we might learn.** The words will emerge from communities building resilience, scientists uncovering new connections, and young people who refuse to accept that the future is sealed.

In the meantime, we can practice using words that acknowledge our interdependence rather than our separation, our responsibility rather than our victimhood, our agency rather than our helplessness. We can experiment with language that honours both the grief of what we are losing and the possibility of what we might create.

The climate crisis teaches us that we are not separate from nature but part of it, not masters of the Earth but participants in its ongoing creation. **Learning to speak this truth may be the first step toward learning to live it.**

Naman Sethia
5 MCA B

Salesforce pioneered the "software-as-a-service" (SaaS) model, delivering enterprise-grade business applications over the internet since 1999. Instead of isolated data spread across disparate departments, Salesforce gives a unified view of every customer. This one platform, known as Salesforce Customer 360, obliterates data silos and allows the sales, service, and marketing teams to work seamlessly together.

The platform isn't a single product but a collection of integrated apps, each built for a particular business function. They are typically referred to as "clouds":

- Sales Cloud: Enables sales teams to manage leads, monitor opportunities, and automate procedures to close deals quickly.
- Service Cloud: Manages service and support for customers, enabling companies to address issues rapidly across numerous channels such as phone, email, and social media.
- Marketing Cloud: Allows businesses to design, manage, and analyse their targeted marketing campaigns.
- Commerce Cloud: Offers a suite of tools to build and manage e-commerce sites.

- Analytics Cloud (Tableau): Allows businesses to convert customer data into actionable insights with advanced data visualisation.

How Companies Use Sales force

Nearly all industries, from banking to healthcare and retailing, depend on Salesforce. A few real-life examples include:

- A salesperson uses it every day to track calls, set up meetings, and change the status of potential deals. It gives them a transparent, visual pipeline, allowing them to focus their efforts and predict revenue.
- A customer service agent can leverage Service Cloud to immediately view a customer's entire history, including previous purchases and old support tickets. This enables them to render a quick and tailored solution.
- A marketer can leverage Marketing Cloud to execute a targeted email campaign for a certain customer segment and automate subsequent follow-up messages depending on their engagement.

The Current Trends: The Future of AI

The greatest trend in the Salesforce universe now is the integration of Artificial Intelligence (AI) at its core. While Salesforce has its own AI platform, Einstein, the current emphasis is on autonomous AI agents and generative AI.

This technological change is transforming the way work is accomplished. A generative AI helper can write a custom email for a salesperson or craft advertising copy for a marketer in a matter of seconds. Even more revolutionary are AI agents, which are programmed to execute entire tasks with little human intervention.

For example, an AI agent might qualify a fresh lead, book an initial meeting, and even fire off a custom follow-up, all by itself. Salesforce views AI agents not as competitors for employees, but as "digital labour" that supplements every employee, allowing more time for strategic and creative work.

Your Portal to a Career in Technology

The Salesforce community is a huge and expanding job pool that generates millions of jobs worldwide. It's not limited to computer science students; anybody in business, marketing, or data analysis can have a fulfilling career.

The best place for students to start is with Trailhead, Salesforce's own free online learning platform. Trailhead has a gamified learning environment, and earning "trails" can help you earn badges verifying your skills. Having a Salesforce certification can be a great differentiator on your resume, demonstrating to employers that you have the capabilities to succeed in an information-driven world.

By delving into Salesforce, you are not merely studying one program; you are arming yourself with the knowledge to become a leader in the next generation of technology and business.

Vibe Coding:

The Chill New Way to Build Stuff

Pratham Jain
5 MSAIM

Imagine that you are a passionate programmer who is conversing with your computer rather than frantically typing code while half-listening to your favorite playlist. Behind the scenes, an AI creates it when you say, "Plot my sales data with a cool chart." That's basically vibe coding — **a playful term for letting AI take care of most of the grunt work.**

Coined in early 2025 by OpenAI co-founder Andrej Karpathy, vibe coding means you "fully give in to the vibes, embrace exponentials, and forget that the code even exists".In reality, you simply use voice commands or plain English to specify what you want, and AI programs like Cursor, Copilot, or ChatGPT create the code for you.

It's similar to having a voice-activated, lightning-fast, and always-ready coding sidekick. (Yes, it's better than spending hours searching StackOverflow!)

Despite the name, vibe coding isn't about crystals or meditation (though it might feel spiritual). Think of it as coding by intuition and AI: you focus on what you want, not how to write it. Vibe coding "can boost productivity and accelerate prototyping" by lowering the barrier between idea and implementation.

Why Go with the Vibe?

Why would any coder do this? Vibe coding has some serious perks:

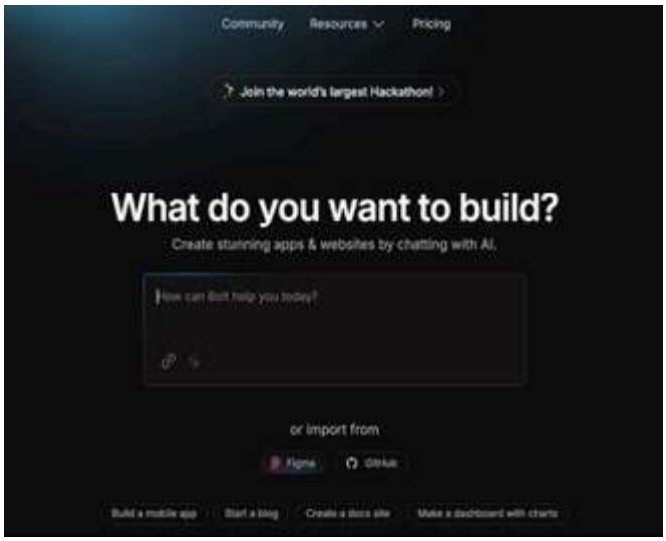
- Super-fast prototyping: Need a quick demo or proof-of-concept? With vibe coding, you can "spin up" a working feature in seconds or minutes by just describing it. This time-to-value speed means you can test ideas before breakfast that might have taken days otherwise.
- Low friction, high creativity: Since you're not fighting syntax or searching documentation, your flow stays smooth. It's like saying "Make the button green" instead of writing CSS for ages. Experienced devs find they stay in the zone, and beginners can focus on ideas.
- Voice-driven coding: A cutting-edge advantage is literally talking to your code. Tools like SuperWhisper let you shout commands at your editor: "Add a login form to this page," and it follows through. No need to pause your music to type.
- Focus on the fun bits: By offloading grunt work, you get to concentrate on the creative or "high-level" side of projects. Want to play with layouts, colours, or cool integrations? Vibe coding handles the tedium.

Tools to Catch the Vibe

You can't vibe-code without the right toolkit. Fortunately, a whole ecosystem of AI-aware tools is springing up. Here are ten cool tools that hobbyists are using to ride the vibe:

Bolt

A fast and intelligent AI-powered code completion tool. Bolt reads your context and writes code like a pro, giving you real-time suggestions and completing large code blocks with minimal prompting. It's light, fast, and made for seamless productivity.

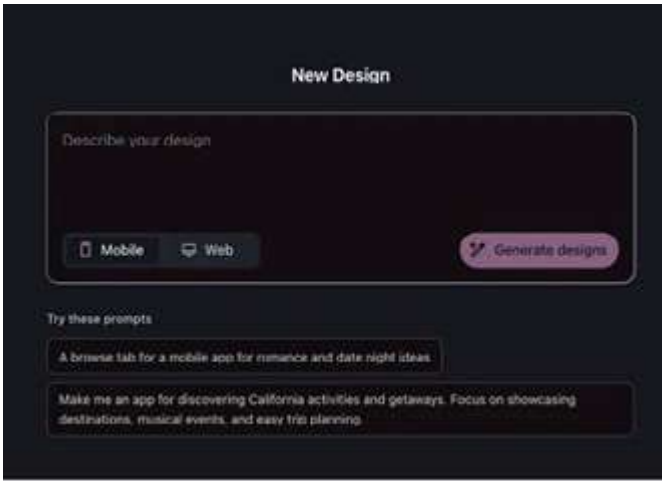


V0 by Vercel

Turn your UI ideas into working React components just by typing them. V0 is a dream for frontend devs — describe your layout or features in plain English, and it builds responsive, styled code ready

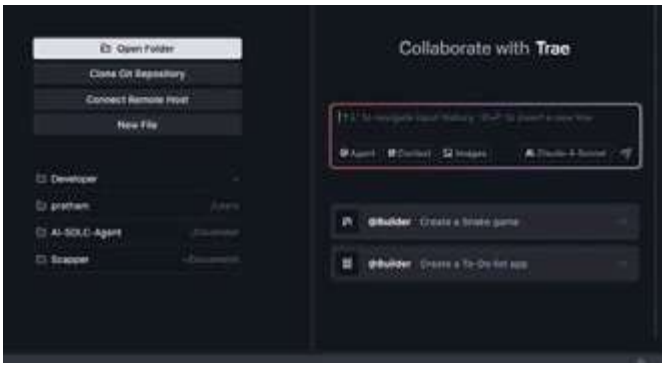
Stitch by Google

An experimental design-to-code assistant from Google that transforms natural language prompts into real UI layouts. Perfect for wireframing and speeding up frontend prototyping.



Trae IDE

An all-in-one AI-native development environment built for modern coding workflows. It integrates code generation, editing, debugging, and testing into one intelligent platform. It's like having a junior dev and a senior reviewer rolled into your IDE.



Codex by OpenAI

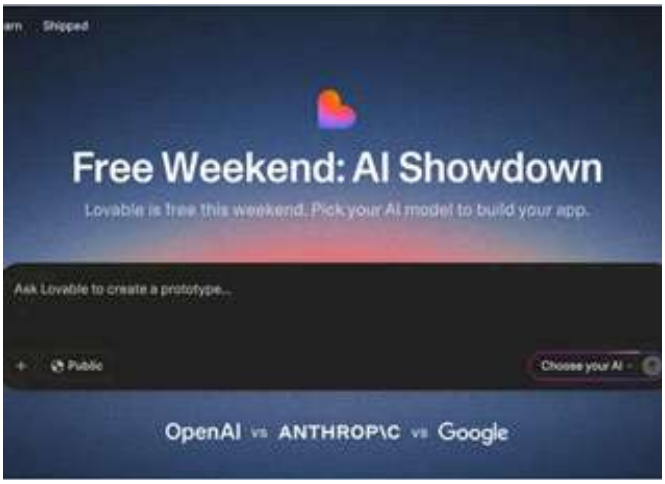
The OG brain behind GitHub Copilot, Codex, is OpenAI's model trained specifically on code. It understands dozens of programming languages and can write, complete, and even explain code from natural language. Codex showed the world what's possible when LLMs meet logic — and laid the foundation for vibe coding as we know it today.

Cursor

A sleek editor designed with LLMs in mind. Cursor allows you to chat directly with your code, generate edits inline, and explore multiple variations instantly. It's like GitHub Copilot in a more focused

Lovable

Lovable is like having a design bestie in your dev flow. It helps generate cute, modern UI components with a focus on delightful user experience. Especially handy for those building playful or emotionally engaging apps.



Vibe Coding vs Traditional Coding

Traditional Coding	Vibe Coding
You write every line of code manually	You describe what you want; the LLM writes the code
Debugging through reading logs and error messages	Copy-paste error into LLM and let it fix or suggest workarounds
Rely on StackOverflow and documentation	Ask AI (e.g., ChatGPT) directly in natural language
UI/UX done manually in code editors	Use tools like Stitch to generate UI via prompt
IDEs are passive—wait for your input	Smart IDEs like Trae actively co-build and autocomplete entire features
Requires understanding of libraries and frameworks	LLM fills in knowledge gaps and wiring automatically
Testing is deliberate and manually written	LLMs help write tests or simulate edge cases

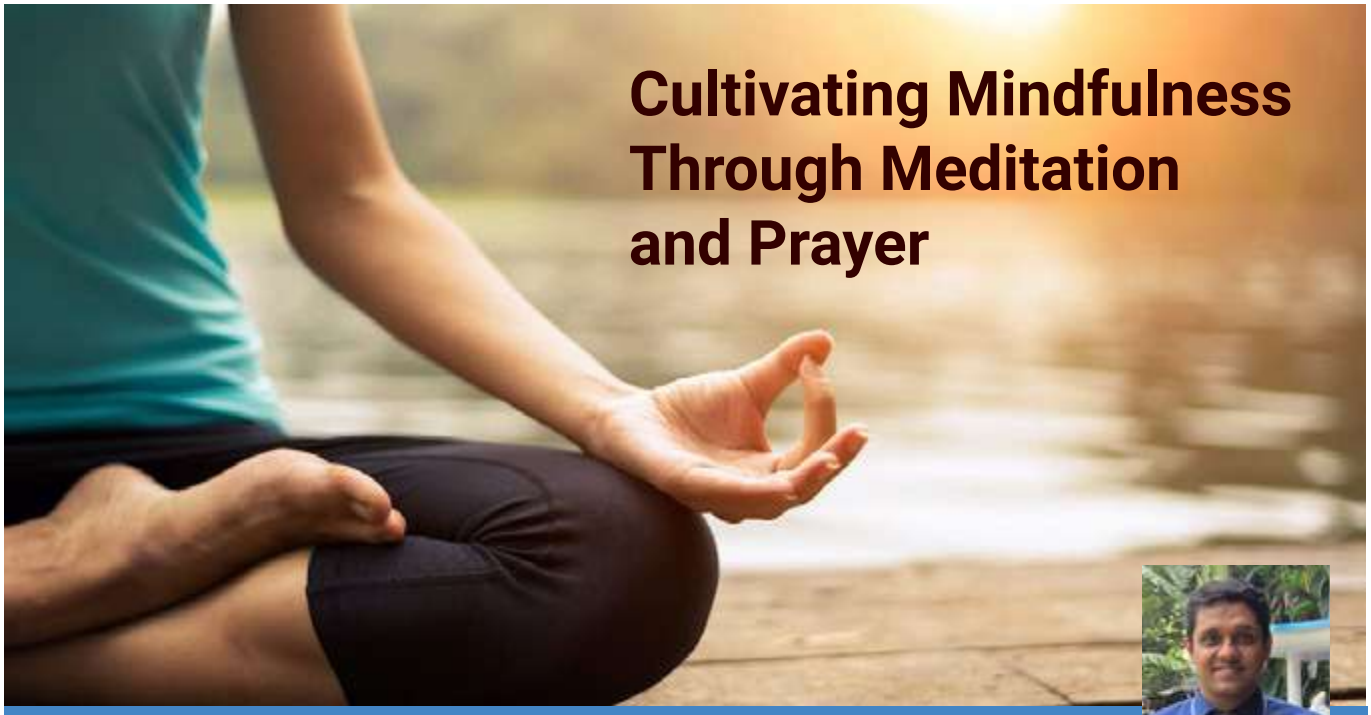
Looking Forward: The Future of Vibe Coding

So what's next? If vibe coding is any sign, software creation is about to get a whole lot more casual, collaborative, and creative. Imagine sketching an idea on paper and having AI turn it into a functioning app by lunch. With voice UIs, AR glasses, and smarter copilots, we're not far from building apps by simply describing them — or even humming them. It's a new paradigm where AI isn't just assisting but co-creating.

Even the big players are leaning in. During a chat at Meta's LlamaCon, Microsoft CEO Satya Nadella shared that 20%–30% of Microsoft's internal code is now AI-generated, particularly in Python-heavy projects. CTO Kevin Scott even predicted that 95% of code will be AI-generated by 2030. Google is already ahead: CEO Sundar Pichai recently confirmed over 30% of Google's code is written by AI. (Source: TechCrunch)

That gives independent developers and tinkerers the all-clear to experiment. Imagine community platforms that are stocked with "vibe scripts" that can be remixed, such as "create a to-do app that looks like a console game from the 1990s." Naturally, not all use cases can be eliminated by vibration; human accuracy is still necessary for critical systems. " Of course, not every use case can be vibed away — critical systems still need human precision. But for playful projects, tools for one, and digital creativity? Vibe coding lowers the barrier to entry dramatically. You might say, "Build me a journal bot" at 2 a.m., and by sunrise, it's already shipped.

As Karpathy puts it, vibe coding is informal and fun, and it mostly works. So fire up your AI dev buddy, put on some chill tunes, and let the vibes guide your next creation.



Cultivating Mindfulness Through Meditation and Prayer

Sanith J. Vichattu
5 MCA A

We live in constant interruptions—pings from our phones, a fresh flood of emails, headlines piling up by the minute. It's no surprise that our attention scatters and our energy wears thin. Long before this overload, people leaned on practices like meditation and prayer to quiet their minds. Today, those same practices offer a steady way to push back against distraction and restore some balance.

Meditation and prayer don't magically erase stress, but they do train the mind to pause instead of reacting to every pull on our attention. Over time, that pause makes space for clearer thinking, calmer choices, and a steadier emotional state.

One of the many immediate benefits is relief from stress. Even a few quiet minutes can soften the edges of anxiety, easing the body's tension along with the mind's. That calmer state tends to spill into other areas of life—how we sleep, how we respond under pressure, even how our bodies handle strain.

These practices also sharpen decision-making. When the noise dies down, it's easier to weigh options without rushing. Many people find that reflection—whether through silence or prayer—gives them the perspective they need to make choices that feel less reactive and more aligned with what matters to them.

Another gift of mindfulness is that it pulls us back into the present. We spend so much time replaying the past or jumping ahead to what's next that we miss what's right in front of us. Prayer and meditation work like gentle reminders to notice the moment at hand—whether it's a breath, a conversation, or the quiet around us.

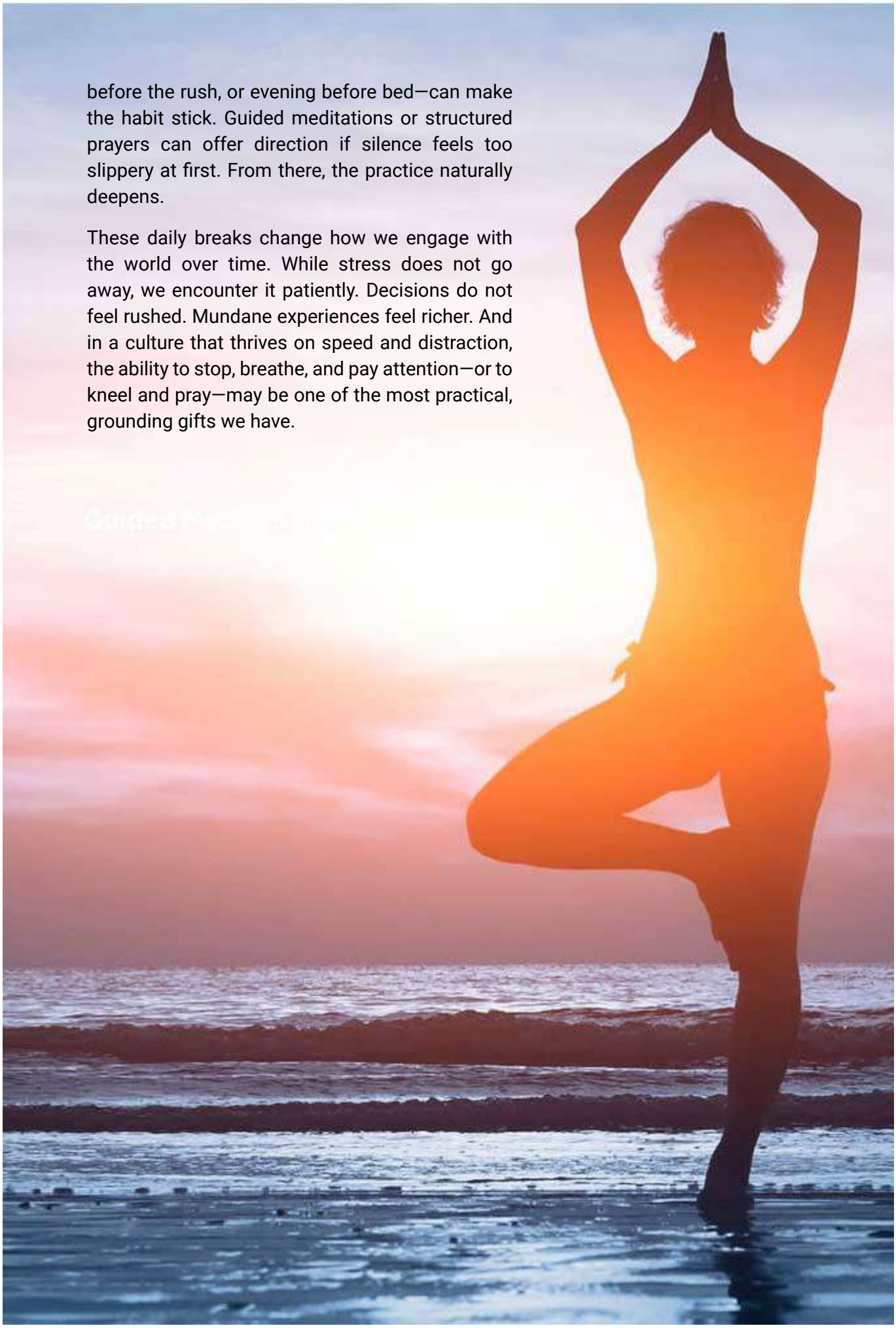
That said, prayer deserves its own space apart from meditation. Prayer is more than a technique—it's a way of placing yourself before God, speaking, listening, and remembering that life is not held together by our efforts alone. When God has first place, even when other things fall apart, we don't collapse with them.

Beginning the day in prayer and closing the day the same way creates a rhythm: waking with gratitude, ending with reflection, and entrusting every moment in between. There's also the deeper work of self-reflection. Sitting still with your thoughts or speaking them in prayer can surface values, goals, or doubts that get buried in daily busyness. That kind of honesty with yourself is often where real growth begins.

Starting small helps. Five minutes of stillness is enough to begin, and consistency matters more than duration. Picking a time of day—morning

before the rush, or evening before bed—can make the habit stick. Guided meditations or structured prayers can offer direction if silence feels too slippery at first. From there, the practice naturally deepens.

These daily breaks change how we engage with the world over time. While stress does not go away, we encounter it patiently. Decisions do not feel rushed. Mundane experiences feel richer. And in a culture that thrives on speed and distraction, the ability to stop, breathe, and pay attention—or to kneel and pray—may be one of the most practical, grounding gifts we have.



Discipline -
One choice at a time

Karan Agarwal
5 MCA B

Think of the word discipline, what do you imagine? A joyless drill sergeant barking orders at 6 AM? But what if discipline isn't a burden? What if it's an adventurous game, a personal battle, and a long-term hack?

Truth is, discipline secretly shapes your seconds, stacking into hours, then days, then months, and before you realise it, your life. Every little choice compounds into the masterpiece (or mess) you eventually call "ME".

But here's the catch: you're not in this alone. They say you're the average of the five people you spend the most time with.

Say, three of your closest friends treat Netflix like a religion, don't be surprised when your productivity starts praying to the same god. On the other hand, hang out with people who see discipline as a fun challenge, who treat showing up as a game, and suddenly, you're competing in the most positive of ways. And competition, when healthy, is contagious.

Now, the opposite side of this coin is dark: the pain of regret. Years from now, picture your younger self visiting you on your deathbed. Imagine them looking at you with disappointment and saying, "Really? That was it? You had all this potential, and you chose scrolling memes at two in the morning, over building the life you dreamed of?" Hurts, right?

The regret isn't about what you did wrong, it's about what you never dared to do, when you could have.

But here's the fun bit: discipline doesn't have to be a punishment. Picture it as a handy tool, a fitness tracking machine for your soul. Each instance of you making a disciplined choice will lead to you becoming a little bit better than you were a minute ago.

No, you don't need to conquer Mount Everest today. Just take one tiny step up the hill. Consistency does and will beat intensity when it comes to this game called life.

So, yes, discipline will put its demands in front of you, but it sure will give you everything in return. Fulfillment. Growth. A life you can say you're damn proud of. And let's be honest here, isn't it more fun to treat it like a challenge than a resentful chore?

After all, the seconds are ticking anyway. The real question is, will you spend them building yourself into someone your younger self would cheer for, or someone they'd resent for wasting their soul's potential?

Tech for Rural India: Bridging the Digital Divide

Mahalakshmi C
Class: 5 MCA B

Last summer, I visited a village, and I experienced something that I will never forget. A farmer, sitting in the shade of a neem tree, is watching YouTube videos. He wasn't enjoying himself, but he was watching to get some input on improving the irrigation on his field. And this wasn't far from the group of children who were watching YouTube on a crowded device with a free app that was teaching them English pronunciation.

This moment made me aware that this 'digital revolution' isn't just happening at the top of a glass tower or new co-working spaces in the big cities; it is happening in rural India as well, although this is happening in a less concentrated and pervasive way.

Why the Divide Exists

Rural India has been disconnected from urban India by more than just geography. The digital divide was evidenced by limited access to the internet, infrastructure, and related digital engagement. While people were making transactions and ordering food from apps and new online classes were flourishing, the villages were still left dealing with poor to basic connectivity.

The Silent Revolution

Things began changing with the proliferation of affordable smartphones and less expensive internet service plans. It was as if, even in villages where a computer lab could not be found, a device the size of a pocket opened the world. Farmers could check weather forecasts to see when to sow their seeds; small shopkeepers began posting QR codes as payment types; students in remote villages experienced online lectures and digital libraries.

Government initiatives like Digital India, as well as community projects funded by NGOs, played a significant role. Whether through Wi-fi hot spots in panchayats or digital literacy or e-health services, technology has reached doorsteps and neighbourhoods that felt too far away.

Stories of Change

For example, "e-MITRA" centres in Rajasthan are helping villagers to apply for government schemes without travelling miles. Women in self-help groups are learning e-marketing to sell their handmade crafts. These are not fables; they are stories that show that when technology is used correctly, it can have tremendous value in empowering a community.

Challenges that remain

The journey to this point is not a smooth ride. Many villages still experience intermittent connectivity,

people are not aware of digital resources, and language is still a barrier. Digital literacy, especially for the older generations, is still a challenge. And although smartphones are powerful devices, not all families can afford them.

The Road to Progress

Connectivity is not just a technological issue; it is an issue of inclusivity. We have a role as upcoming engineers, entrepreneurs, and policymakers - people like us - to bridge this gap. Designers to create apps in local languages; engineers to make the digital solutions cheaper; the possibilities are limitless!

A Future to Work Towards

The farmer sitting under a neem tree and the munchkins with their collaboratively driven smartphone exemplify a new India - an India that is no longer defined by an individual's pin codes. As students and future innovators, we should understand that it is important for technology to shine a light in every dark corner of the country.

"A truly digital future is one of equal opportunity and equal knowledge, in which every

village, and every household, regardless of remoteness, is connected."

Smaller, Smarter, Faster:

The Power of Knowledge Distillation

Jesvin K Justin
Class: 5 MSAIM

Knowledge Distillation, a deep learning technique distills large neural networks into smaller, faster, and more resource-efficient models without losing the majority of their accuracy. Powerful models like BERT or GPT have excellent performance but are costly to run, with high memory and GPUs being required. Knowledge Distillation makes Artificial Intelligence more viable in resource-constrained environments such as mobile phones and real-time software applications through the process of transferring knowledge from a substantial teacher model to a small student model.

The basic hypothesis behind Knowledge Distillation is that the student learns not just from the original data but also from the teacher's outputs. During training, the teacher builds probability distributions over classes, known as "soft targets." Soft targets are more informative than bare hard labels. For instance, if the task is to label an image, the instructor can guess that it belongs to the "cat" class with 90% probability and the "dog" class with 10%. Although the correct label is "cat", the learner is instructed that "dog" is a fairly related category, which makes them better at generalising. This process is generally driven by a distinct loss function that merges the student's mistake on the true labels with its deviation from the teacher's predictions. A temperature hyperparameter is generally employed to soften the teacher's probability distribution so that the student can learn more nuanced knowledge.

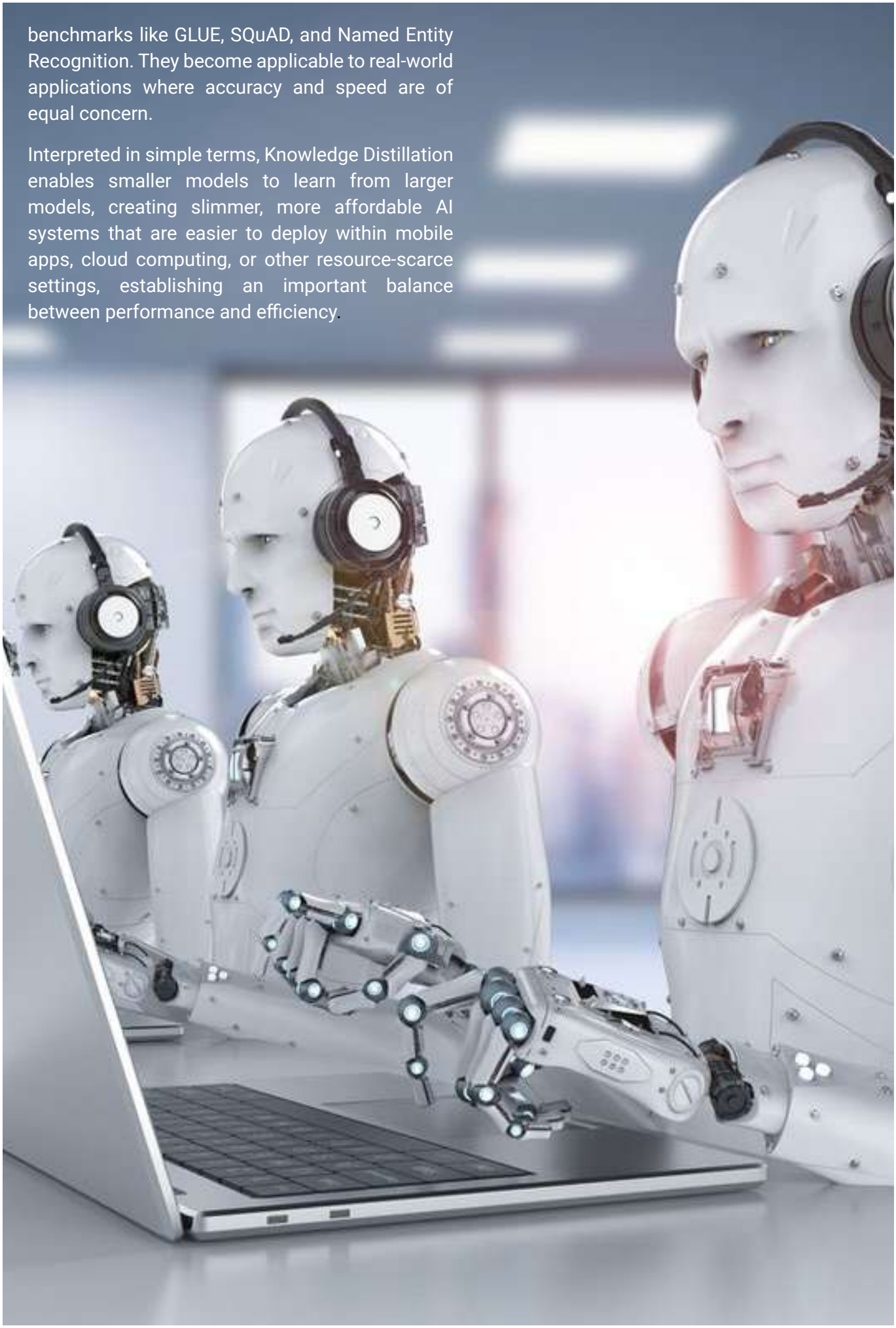
The training procedure in Knowledge Distillation generally constitutes three steps.

1. First, a big teacher model is pre-trained on a dataset to the point of high accuracy.
2. Second, the knowledge of the teacher is transferred to a small student model by minimising the disparity between their predictions.
3. Third, the student is further fine-tuned over the downstream task, making the student specialised and efficient simultaneously. Similar variants of this strategy also involve transferring intermediate representations, e.g., hidden states or attention maps, from teacher to student, which can afford even more supervision.

In reality, Knowledge Distillation has proved very helpful, enabling compressed models like DistilBERT, TinyBERT, and MobileBERT to achieve around 95% of the performance of their teacher while being much smaller and faster. Even the optimised transformers such as Longformer and Big Bird can be condensed in order to save inference time by as much as 50% without sacrificing much accuracy on

benchmarks like GLUE, SQuAD, and Named Entity Recognition. They become applicable to real-world applications where accuracy and speed are of equal concern.

Interpreted in simple terms, Knowledge Distillation enables smaller models to learn from larger models, creating slimmer, more affordable AI systems that are easier to deploy within mobile apps, cloud computing, or other resource-scarce settings, establishing an important balance between performance and efficiency.



Analysing the Success of "Five Nights at Freddy's"

Yojit Shinde
Class: 5 MCA B

In the hyper-competitive landscape of video games, game developers can be seen spending millions of dollars to capture a small slice of the existing market. They chase current trends whilst pouring all their resources into developing a game that hits the market. Then you have Scott Cawthon, a failing independent developer, trying to scrape whatever money he can acquire to sustain his family. Unbeknownst to him, he would later be developing a franchise – "Five Nights at Freddy's".

Also known as FNaF, the franchise consists of eight games, two spin-offs, three books, one movie and 100s of fan-games (games developed by the FNaF fans community) with a net-worth of over a billion dollars.

1. Handling Criticism

'The difference between average people and achieving people is their perception of and response to failure.' ~ John C. Maxwell

Scott Cawthon specifically demonstrates this. Before FNaF, Scott had managed to develop a wide array of games like "The Pilgrim's Progress", "Noah's Ark", "The Desolate Hope", "Sit and Survive" and "Chipper & Sons Lumber Co." Although some games did garner a few customers, these games were not able to generate enough revenue for Scott Cawthon.

The critiques themselves were quite brutal. For his latest project, "Chipper & Sons Lumber Co.", which was an action-adventure game targeted for children, the reviewers criticised the art style of the game. They said the characters looked like "creepy animatronic animals."

These comments do not necessarily fall under "constructive criticism", which is why, for any developer, this would have been a crushing blow – a fundamental flaw in character design. Scott Cawthon himself was about to quit the career of game development for good, but in the moment of despair, eureka!

"What if the creepiness wasn't a bug, but a feature?"

Scott leaned into that criticism and made a game where the creepy, animatronic aesthetic was the entire point.

2. Developing a Niche

To set the context, Scott is struggling financially, and this might be his very last attempt at developing games. Working completely alone with no one at hand for assistance, he must develop a game in a

short period of time, and he must work with what he has: a unique, unsettling art style and a talent for creating atmosphere.

At a time when horror games were about running, hiding, and exploring vast environments, FNaF chained the player to a chair. You are a security guard, and your only tools are a few security cameras, two doors, and a finite power supply. You cannot fight. You cannot run. You can only watch and wait.

This restrictive gameplay created a unique form of psychological horror. Checking the cameras drains power. Closing the doors drains power faster. Every decision you make is a calculated risk. By doing the opposite of what was popular, Scott created a new experience. He developed a niche for players who loved strategic, resource-management horror over action-oriented horror.

3. Thinking both Short-Term & Long-Term

Five Nights at Freddy's games have a unique approach to storytelling. These games do not tell you the story in a linear fashion like other games; in fact, they do not even tell you a story! Much of the lore regarding the game is based on theories developed by fans. The theories are based on various environmental details present in the game, like newspaper reports on missing children, phone calls from a mysterious "phone guy", and so on.

By keeping the lore open-ended, Scott achieved flexibility to direct the story in whichever direction he wanted it to go. This aided him long-term, as fans tried to figure out the complete story – he was able to develop more games in the franchise that added to the plot of the story.

But players do not simply play for the lore alone. The enjoyment of the game is a requirement as well. This is where his short-term goals were useful. Each FNaF game employs new game mechanics, characters, and environments, and with each Five Nights at Freddy's game, the player is assured a new and different gameplay experience.

Through working on both his short-term and long-term goals simultaneously and actively engaging with the FNaF community, Scott was able to create the massive Five Nights at Freddy's franchise that is cherished and loved by so many today.

Conclusion

In conclusion, the success of Five Nights at Freddy's was not an accident. It was a direct result of embracing negative feedback to create a niche, and setting and working towards both short-term and long-term goals in order to materialise that niche into an actual enjoyable experience.

Men Who Smell of Mud

Noel Lalichan
Class: 2 MSAIM

The churchyard was damp from the September rain. Mariam stood before the stone, twenty years old and trembling.

For eighteen years, she had lived with her mother's sister, who raised her on a single story told again and again. Her mother, Anna, was an angel on earth, taken too soon. Her father, Thomas, was a drunkard who ruined her life and drank himself to death.

Her mother lay buried in her family's parish, among ancestors whose names were etched into marble. Her father lay here, in the common yard, among strangers, because he had no family tomb of his own. Husband and wife, separated even in death.

Mariam had never come before. She had been taught not to waste her prayers on him. Yet something drew her that evening, and what she found unsettled her: wax hardened into the soil, as if countless candles had burned here; flowers fresh upon the grave.

Someone had cared. Someone still cared.

The bus jolted as it wound through the narrow roads. Joseph leaned his head against the window, watching rows of rubber trees pass by in the drizzle. The trees stood in straight lines, tall trunks with bark burned black from the rain, little cups attached to them trapping the slow leak of white sap.

The air smelled of wet earth and raw sap, sharp in the throat. In between the plantations were red earth paths cutting through the vegetation, and sloped roofs of houses appeared and disappeared in the clouds and mist, pressed in fear of the rain.

It had been weeks since he last heard from Thomas. The letters had slowed, then stopped, and silence weighed heavier than words.

He and Thomas had been boys together in the orphanage, brothers in everything but blood. They dreamed of better lives and worked side by side, and when Thomas found love, Joseph stood for him alone before Anna's family. With their savings, Thomas and Anna bought half an acre of land, built a small house, and lived by their work. For a time, they were happy.

Mariam was born, and the courtyard filled with joy. But within a year, Anna sickened and died. That loss broke Thomas. He struggled to raise his daughter, but grief and guilt drove him to drink. Mariam became the only light he had left.

Joseph, now working as a watcher at a nearby plantation, visited often. He brought sweets for the child, who adored him. He tried to lift his friend from despair, but Thomas sank deeper.

And now, with the rains dripping from his umbrella, Joseph hurried through the courtyard gate. Mariam was playing in the drizzle, chasing chickens, her frock spattered with mud. She looked up and squealed with delight.

"Uncle!" she cried, running to him, her hair stuck in wet curls across her forehead. Joseph bent down, his weary heart easing. "My, my, how you've grown! Where is your father?" She giggled, pointing to the house. "Sleeping still. He won't wake up! He sleeps too much today."

Something in Joseph stilled. He ruffled her hair gently, his smile tightening, and walked inside. The air was heavy with damp clothes and stale medicine. He called softly, "Thomas?"

No answer.

He pushed open the bedroom door.

Thomas lay stretched on the bed, eyes closed, skin pale, lips tinged blue. Joseph froze. His knees weakened. With trembling hands, he touched his friend's face.

Cold. Gone.

"No…" His whisper broke. "Not like this."

Grief pressed against his ribs, but outside, Mariam's laughter rang—bright, unknowing. That sound steadied him. He forced himself to breathe, to stand, to act.

Within the hour, neighbours crowded the house. Women whispered prayers, men called for the priest. Joseph moved among them like a man in a dream, his chest hollow.

In the courtyard, Mariam tugged at the women's hands, holding up her hens proudly. "See, see my hen? She follows me everywhere." The women smiled through tears, hiding their sorrow. Joseph stood watching, vision blurred, knowing her world was about to break.

When the priest came, he prayed the office of the dead in the darkened room. Later, he stepped outside, laid a hand on Joseph's shoulder, and asked quietly, "What will we do about Mariam?"

Joseph swallowed hard. "We'll take her to her aunt, Anna's only living sister. The child trusts only me, and her aunt knows me well. I'll bring her there."

He entrusted the neighbours with the funeral, promising to return in two days.

Then he lifted Mariam into his arms. She leaned against him, half-asleep, her small fingers curled into his shirt, trusting him utterly.

The bus rumbled again through the wet hills. Mariam pressed her face to the window, watching raindrops race one another down the glass, until she fell asleep on his shoulder.

At her aunt's house, high on the slopes, Joseph left her with tears stinging his eyes. The rains grew heavier. Trees toppled, blocking the narrow tracks. Telephone lines sagged and snapped. The hills

were cut off from the town below.

Two days passed. Joseph, desperate to keep his word, hired a jeep to descend the flooded tracks. But the road was blocked by fallen trunks and stones, washed down by the rains. The driver turned back, shaking his head.

Joseph pressed on alone. The hillside was slick with mud, every step a struggle. He slipped often, his clothes caked, his hands raw from clutching at wet roots. The rain beat against him, blinding his eyes, filling his mouth with the taste of earth and water.

Halfway down, he paused to catch his breath, chest heaving, and then he saw it. Across the valley, the hill opposite where the parish church stood: a small procession, dark umbrellas huddled close, moving slowly upward through the rain.

At its centre, lifted high, a coffin.

The sight struck him like a blow. He shouted, but the storm carried his voice away. Heart hammering, he stumbled forward, half sliding, half running, mud pulling at his feet, branches whipping his face. His breath tore in his throat, his strength failing, yet he forced himself on.

By the time he reached the church, it was over. The mourners had gone. The grave was already filled, the mound of red earth fresh and glistening in the rain.

Joseph fell to his knees, his palms sinking into the wet soil. Rain mingled with the tears on his face. “Thomas…” he whispered, the word breaking inside him. “I should have been here.”

The rubber trees swayed and hissed in the storm, silent witnesses, indifferent to his grief.

Seventeen years later, the priest’s voice trembled as he told Mariam what Joseph had borne: the laughter of the child outside, the hurried funeral, the rain-soaked run, the grave filled too soon. From that day onward, he said, Joseph returned here every day. He lit candles for his friend, and on some days, for every soul in the yard.

Mariam left the church, her mind in a storm.

Back at the cemetery, the sight stunned her. The whole yard glowed with small flames. Candles flickered at nearly every grave, and among them, bent against the drizzle, stood an old man, lighting one wick after another.

He looked up. Their eyes met.

She did not know his face, but she knew who he was. Something in her, Anna’s eyes, Thomas’s mouth, betrayed her to him. Slowly, Joseph’s expression softened into a trembling smile.

“Mariam?” he asked, his voice breaking with years unsaid.

She nodded, eyes wet.

He reached into his bag and placed the remaining candles in her hands. Then, turning toward the grave, he said softly, almost to himself: “Thomas, your daughter is here.”

He pressed her hand once and walked away into the rain.

Mariam stood, frozen, staring at the small flames shivering in the wind. She imagined the years he had carried, the devotion he had offered in silence. Kneeling, she placed the candles carefully on the damp earth of her father’s grave, as though answering a vow left unfinished.

Night City Through Dying Eyes

Hari Prasad B K
2 MCA A

Funny how everything changes when you're counting down to flatline. Viktor told me I had weeks, maybe months if I'm lucky. The relic in my head - Johnny Silverhand's digital ghost - is rewriting my brain one synapse at a time. Soon, there won't be any "me" left. Just him.

So here I am, writing what might be my last love letter to this concrete hellscape. Because that's what it is now - not the city that was gonna make me a legend, but the last thing I'll ever see with my own eyes.

The Beauty You Notice When Time Runs Out

Do you recall how endless summer vacation seemed when you were a child? Every sunrise feels stolen these days. I could die with every sunset. And what do you know? Never has Night City appeared so stunning.

I spent years seeing this place as something to conquer, to survive, to escape. Now I see it for what it really is - home to eight million people just trying to make it through another day. That gonk selling braindances in Kabuki? He's got kids to feed. The street kid on Jig-Jig Street?

He's saving Eddies to get his brother out of a corporate contract. The corporate exec stepping over homeless veterans in the City Centre? Even he's just another prisoner in a golden cage.

We're all dying here. I'm just doing it faster.

What Matters When Nothing Matters

Used to think the gigs mattered. The rep, the eddies, the chrome, climbing that ladder to the major leagues. Now I see most of it for what it was - just noise. Distraction from the real questions: Who did I help? Who did I hurt? What mark am I leaving on this world?

Been taking different gigs lately. Less focus on the big scores, more on the small stuff. Helped some kid in Heywood find his missing sister. Stopped some Scavs from harvesting cyberware off street kids. Put down a cyber-psycho before MaxTac could turn it into a publicity stunt. Not much eddies in any of it, but...

Damn, maybe Johnny's influence is stronger than I thought. Starting to sound like him.

No. This is me. This is V talking. And V says: when you know your time's almost up, the only gigs that matter are the ones that make someone else's day a little more tolerable.

The People Who Become Everything

Judy. Panam. River. Kerry. Misty. Viktor. Even Takemura with his corporate honour talk. When you're dying, you realise relationships aren't just nice-to-haves - they're the only thing that makes any of this worth it.

Used to keep people at arm's length. Safer that way. Can't lose someone if you never let them get close, right? What a load of brain-dead thinking that was. Now every conversation feels precious. Every

shared meal, every laugh, every quiet moment watching the sunrise from Panam's camp - that's not time wasted. That's the only time that ever mattered.

Night City stops being about survival and starts being about connection. The city doesn't care if I live or die, but the people in it do. And maybe that's enough.

Johnny's Ghost in My Machine

Can't write about dying in Night City without talking about the digital terrorist riding shotgun in my skull. Johnny Silverhand - the man who tried to nuke Arasaka Tower and failed spectacularly.

The rockerboy who thought three chords and a bad attitude could bring down corporate America.

At first, I hated the man. He was stealing my life, my body, my future - literally rewriting my neural pathways with his anarchist propaganda.

Every time he'd jack into my consciousness, spouting off about corpo scum and the evils of the system, I wanted to rip the relic out of my head with my bare hands. Didn't matter that it would kill me. At least I'd die as me.

But spending months with someone's memories carved into your brain... you start to understand them whether you want to or not.

I've felt his rage - pure, burning hatred for everything Arasaka represents. I've experienced his grief over Alt, the netrunner he loved and lost to corporate greed. I've lived through his moments of doubt, the quiet times when even he wondered if violence was really the answer.

But here's the thing, Johnny never understood: you can't save a city by destroying it. You save it one person at a time. One small act of kindness. One moment of genuine human connection in a world that profits off our isolation.

The Last Ride

Every gig feels like it could be the final one. Every drive through the city might be my last tour. So, I pay attention now. Really pay attention.

The way morning light hits the Valentino murals in Heywood, how the corporate towers in the City Centre look like chrome tombstones against the polluted sky.

The sound of kids laughing in the playground near Misty's shop, somehow finding joy despite everything. The old rockerboy playing guitar on a street corner, his music fighting against the traffic noise and winning.

This city's dying too, in its own way. The corporations are bleeding it dry, the gangs are carving it up, the pollution's choking the life out of everything green. But it's still fighting. Still breathing. Still hoping.

Maybe that's what I learned from having Johnny in my head. Maybe that's what he never figured out when he was alive. Night City doesn't need someone to save it or destroy it.

It just needs someone to witness it. To see it clearly. To love it anyway.

What I'll Leave Behind

II won't be remembered like Morgan Blackhand or Johnny Silverhand. No songs about V the legend. No stories passed down in bars across the Combat Zone. But maybe that's okay.

Maybe I'll be remembered by the sister who got reunited with her brother. The street kid who didn't get harvested by Scavs. The street kid who finally saved enough eddies to buy his freedom. The corporation that remembered what it felt like to be human.

Small ripples in a big pond. But ripples all the same

Final Thoughts from a Dead Man Walking

If you're reading this, I'm probably already gone. Maybe the relic finally won. Maybe I went out in a blaze of glory on one last impossible gig. Maybe I just quietly slipped away in my sleep.

Doesn't matter how it happens. What matters is this: Night City will keep spinning without me. In an inhumane society, people will continue to struggle, to hope, and to find ways to be human. And perhaps that's what makes this concrete hell so lovely.

We persevere. We adjust. We make it through.

And occasionally, if we're extremely fortunate, we even survive.

Look out for one another, Night City. All we have is you.

Raju P
2 MCA A

Quantum Software:

Bridging the Gap to Tomorrow's Computing Revolution

Quantum computing has long felt like science fiction. Yet, in recent years, it has slowly stepped out of research papers and into real labs.

Imagine this: a problem that would take the fastest supercomputer thousands of years to solve, crunched in a coffee break by a quantum processor. That's not fantasy. It's the direction we're heading, and software will be the bridge that gets us there.

Unlike the zeros and ones of classical computers, quantum machines use qubits. Because of quantum mechanics, a qubit can simultaneously be a 0 or a 1.

This strange property—superposition—opens doors to wild possibilities. Think of designing new medicines by testing molecules in seconds, or forecasting climate patterns with accuracy we've never dreamed of.

But here's the catch: to use this power, programmers need a new way of thinking. Tools like IBM's Qiskit or Microsoft's Q# are the early languages of this frontier. Writing quantum code isn't plug-and-play.

Developers wrestle with probabilities, noise, and errors, which is something very different from the neat predictability of classical code.

The most exciting ideas come when quantum and classical computers work together.

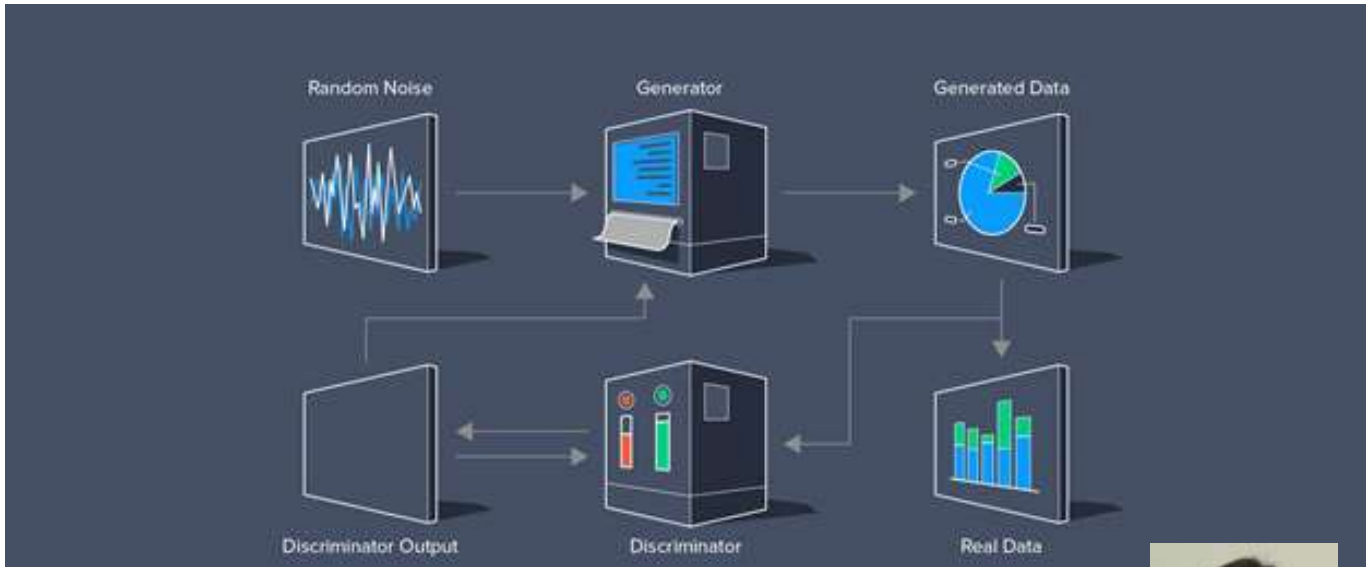
In finance, hybrid algorithms are already testing risk models that outperform traditional methods. Startups like Xanadu and Rigetti are offering cloud platforms so that curious developers don't need their own million-dollar cryogenic fridge to experiment.

Of course, challenges remain. Quantum hardware is fragile; stable qubits are counted in hundreds, not millions.

There are also ethical worries: if quantum computers become mainstream, today's encryption could crumble overnight. That means post-quantum security isn't a future concern—it's an urgent one.

Still, it's hard not to feel optimistic. Universities are opening courses, open-source projects are thriving, and a new generation of coders is learning the ropes.

The future of software isn't just faster—it's stranger, more powerful, and more human than we can imagine. The quantum revolution won't wait. The question is: are we ready to code for it?



The Evolution of Generative Adversarial Networks (GANs) in Image Processing

Prashanth Singh
Class: 5 MCA B

Artificial intelligence has made tremendous advances in the field of image processing technology, especially over the last few years. A significant advancement in image synthesis consists of a class of deep learning called Generative Adversarial Networks. This framework has changed how computers create and change images. Since the beginning, GANs have ushered in many opportunities for medical imaging, creative design, and data augmentation, pointing toward the promise that the future of AI-driven visual applications will be.

Understanding GANs

In 2014, Ian Goodfellow and collaborators proposed GANs as a duel between two antagonistic neural networks: the generator and the discriminator. The generator creates synthesised images, while the discriminator evaluates their authenticity by classifying them into authentic and generated images. The adversarial process takes place iteratively through many rounds, so the generator gets better at creating realistic images with every further iteration. This innovation has opened the door for many applications, such as style transfer and generation, super-resolution imaging, and realistic image synthesis. The two networks work together, producing images that are often realistically impossible for people to tell apart.

Transforming Image Processing

The most impressive area of the application of GANs is image enhancement. If conventional image processing methodologies have, until now, depended upon filter-based and feature-extraction-based techniques, then GANs visualise model capacity and create dastardly-good images based on their target. Super-resolution GANs augment low-resolution images without sufficient ablation of minute details for medical diagnostics and satellite imagery.

Another breakthrough is GANs' data augmentation scheme. To train properly, many machine learning models need vast datasets. GANs address this caveat by generating very realistic synthetic images that expand datasets in order to improve model performance. This technique is proving especially useful in the fields of autonomous driving and medical imaging, where obtaining large quantities of labelled data can be quite difficult.

Challenges and Ethical Considerations

Though quite capable, GANs have many challenges. One major problem is mode collapse: the generator produces limited variations of images, such that

they look pretty similar to each other rather than diverse. Researchers are working hard to improve those processes in order to deal with this issue.

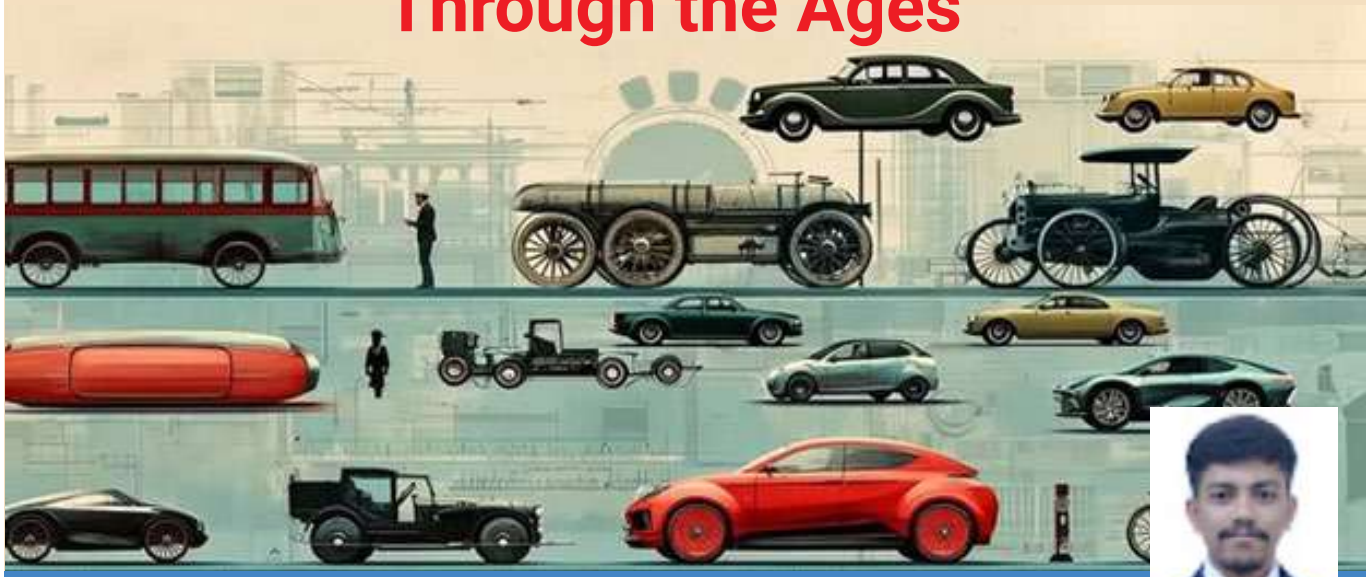
The use of deepfake GANs has created serious ethical questions. With the capability to create life-like yet phoney pictures and movies, questions begin surfacing about misinformation and digital privacy. Working towards meeting such challenges will include the development of good detection algorithms and policies for effective ethical AI governance that will stand for responsible use.

The Future of GANs in Image Processing

The future tone of GANs is expected to be encouraging because there would be ongoing enhancements along with increased efficiency and reliability. Researchers are generating hybrid models that integrate GANs with reinforcement learning and other AI techniques to increase the already sophisticated image generation techniques. Recent innovations into conditional GANs allow for directed synthesis of images with potential application in personalised healthcare and intelligent design.

Furthermore, it is this technology-leading existence of GANs at the very cutting edge that generates these interesting, often very complex questions. While GANs are certainly enablers of technological development through new levels of image generation, enhancement, and modification, as AI continues to unfold, they invite philosophic discussions about the intersection of AI and human creativity. As research and discussions pertaining to their policies continue, GANs are programmed to change the whole paradigm of visual computing in the next decades to come.

Cars: Driving Innovation Through the Ages



Sam Dennis M
Class: 5 MSAIM

The car is one invention that has perhaps had a larger impact on society than any other.

The car has come a long way from a steam-powered vehicle in the 18th century to the fast, electric models of today, which often use artificial intelligence, and it has changed the way we move, live, work, and connect.

They represent freedom, progress, and technological advancement—yet they also raise critical questions about sustainability and the future of mobility.

The Evolution of Cars

1. Early Experiments (1769–1885)

- Nicolas-Joseph Cugnot built the first steam-powered vehicle in 1769.
- Karl Benz's 1885 Benz Patent-Motorwagen is often considered the first true automobile.

2. The Age of Mass Production (1900–1950s)

- Henry Ford's Model T (1908) made cars affordable through assembly-line production.
- Cars became symbols of independence and economic growth.

3. Modernization & Safety (1960s–1990s)

- Seatbelts, airbags, and crash-testing standards reshaped vehicle design.
- Cars also became cultural icons—muscle cars in the U.S., compact cars in Europe, and efficient models in Japan.

4. Smart & Electric Era (2000s–Present)

- Electric vehicles (EVs), led by Tesla and now adopted by major automakers, are reducing reliance on fossil fuels.
- Self-driving technology leads the way for driverless cars.
- Presently, the vehicles we drive are best classified as "computers on wheels," equipped with advanced navigation systems, AI, safety systems, and connectivity.

Cars and Society

- Economic Impact: The automotive industry employs millions and drives global trade.
- Cultural Influence: Cars symbolise freedom, status, and style.
- Urban Planning: Cities have been shaped around cars—with highways, parking spaces, and suburban sprawl.

- Environmental Challenges: Cars are a major source of carbon emissions, pushing innovation in green mobility.

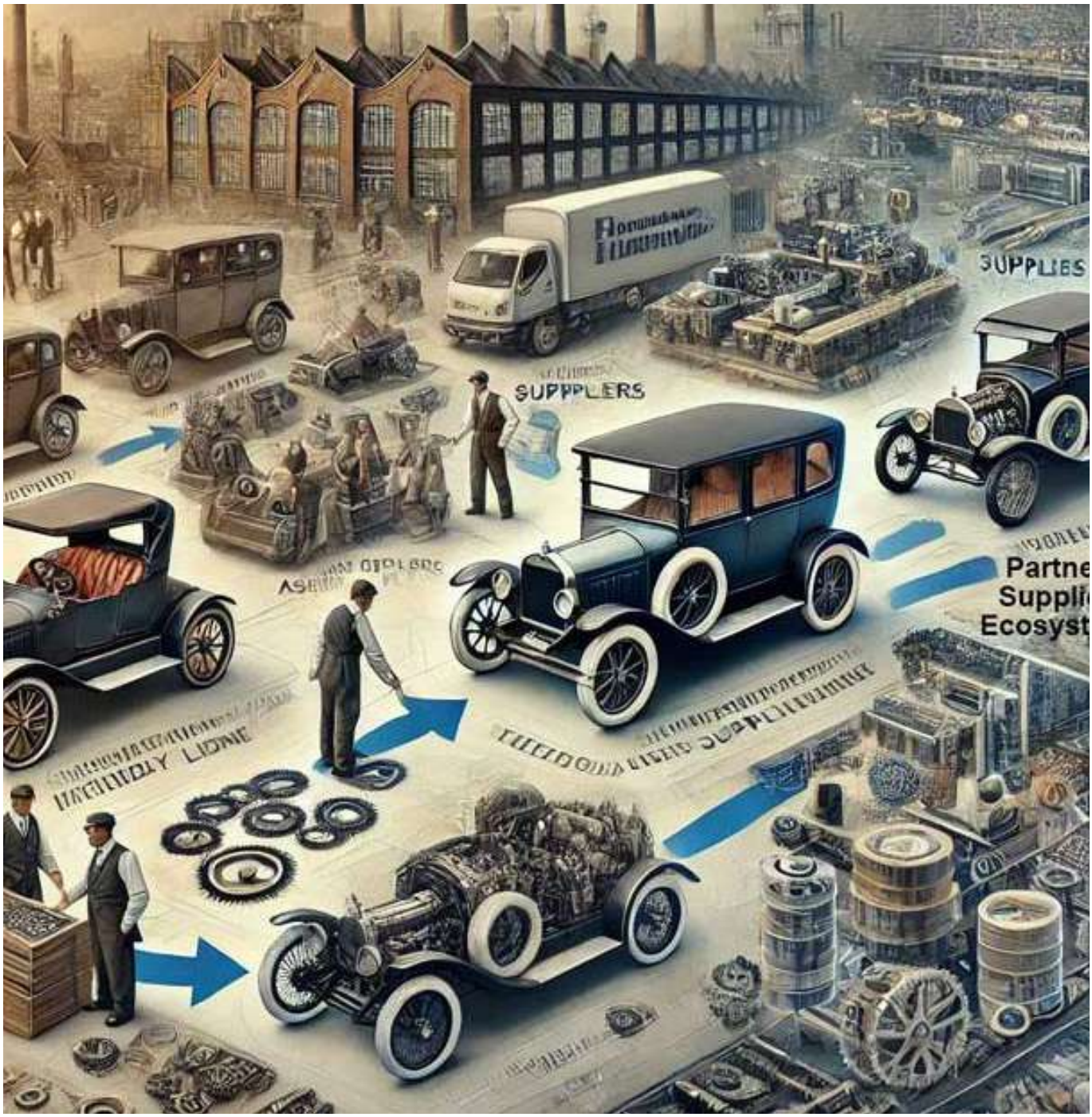
The Future of Cars

- Electric & Hydrogen Vehicles: Sustainable alternatives will dominate roads.
- Autonomous Cars: AI-driven cars promise safer, more efficient transport.
- Shared Mobility: Ride-sharing and car-sharing are changing ownership models.
- Connected Cars: Integration with IoT and 5G will make cars part of smart city ecosystems.

Automobiles are not just machines, they embody all that humans can achieve and accomplish creatively.

From the noise of the first engines to the quiet movements of electric motors cars are still moving innovation into the future.

As society embraces the balance of convenience and environmentally friendly, the automobile's story is still being written; a story that will have an effect on the next generation of vehicles that will facilitate travel on the road of progress.



Internet, Social Media, and Arrested Development

Adithya Shivashankar
Class: 2 MSAIM

The internet and social media can do wonderful things – it can help people reconnect with long-lost friends and family, inspire individuals to take up a new project, people can find new movies and books to read, etc. But for the mountainous highs, there are also deep, low valleys. There are many issues one can pick on: increased screen time, data being collected for targeted ads, body shaming and bullying in communities, etc. But I would like to talk about echo chambers and how they lead to arrested development.

Let's define these two terms. Echo chambers are places where one is subject to seeing or listening to the same views and opinions over and over again. Arrested development is a state where development, either physical or mental, has stopped prematurely.

In this context, it means mental and ideological development. With these two terms defined, one can already see how they may mould someone's ideas and stop them from forming their own identity, ego, and shadow.

Now, these echo chambers can be anything: online forums. Sub-communities, groups, and so on. Staying in a group or a community that continually enforces one way of thinking and your walls of scepticism break down inch by inch, is why some echo chambers are bad: it shuts down the ability to freely talk, oppose views, debate, and outside information.

A place that advocates for climate change and doesn't deny its existence isn't perfect either. Nothing exists in a vacuum, including ideas. It's fine to have a like-minded community, but it quickly becomes a problem when it becomes rigid and shuts down discussions.

It's a complicated topic.

On social media, curated content may lead to one consuming the same or adjacent views over and over again. Go deep enough, and at a certain point, the algorithms may unintentionally promote misinformation and false narratives, and because you're far down the pipeline, it just gets further reinforced.

There is no ideological challenge at that point; you're figuratively and in the real world, sometimes literally surrounded by people who wholly believe in the same narrative, where any contradictory information is filtered out to maintain the status quo.

It doesn't help that these groups feed off of what they already believe in; this enforces the idea that their view is 'correct', and it prevents any critical

thinking and reflection. The worst part of these communities is the paranoia. Individuals with opposing views are seen as attackers, which forces them to take a hostile approach.

Echo chambers don't just reinforce opinions - they corrode your ability to reason, think, and grow as a person. We are in danger of inhabiting some fixed and closed community that will reject any sort of new or outside interaction, and open yourself up to being challenged, to move away from the easy familiarity of your own ideas, and to entertain contrary ideas. Only then can we move forward instead of staying in a state of perpetual arrested development.

Nila Joseph
Class: 2 MSAIM

A Look into Modern Surveillance

Do you ever get that creepy feeling that you're being watched, even when you're just living your life? It's not paranoia, it's the reality of today's technology. From the cameras on street corners to the hidden data trackers on our phones, we're being followed everywhere.

Facial recognition is one of the most chilling tools. It used to be limited to mugshots, but apps like Clearview AI changed the game. Now, police can take a single photo and match it to almost any picture of you online, even one buried in an old social media post. This technology has been used to identify protesters worldwide, from the U.S. to Russia.

But it goes way beyond that. Law enforcement can monitor social media to see how protests are organised. They can use devices that trick our phones into revealing our locations and scoop up data from every phone in a specific area. Leaving your phone at home doesn't guarantee privacy; license plate readers log your car's movements, and drones fly overhead, recording everything. Some researchers are trying to identify people by how they walk or guess their mood with AI.

For a lot of communities, this isn't a new fear; it's just how things are. Groups like the Stop LAPD Spying Coalition are fighting back, not just with lawsuits but by teaching people about how these surveillance networks work and building community power to resist.

So what can we do? Small actions can make a big difference. Leave your phone at home or in a Faraday bag during protests. Use encrypted apps like Signal. Be more mindful of what you post online and cover your face when possible. These simple steps help us take back some control.

Surveillance might be getting more advanced, but so is our resistance. The more we understand the tech watching us, the better we can protect our freedom and show those in power that we won't be silenced just because we're being watched.

ANUPAMA CHAKRABORTY
5 MCA B

Placement is a Game of Luck

Ask any final-year student what's on their mind, and the answer will most likely be placements.

After years of classes, projects, and exams, it all comes down to this one stage. Everyone dreams of landing a good job, but when the process actually unfolds, reality feels very different.

Some students who barely passed in earlier semesters walk out with offers from big companies, while toppers are left waiting. It's at moments like these that we say, almost helplessly, placement is a game of luck.

Why Hard Work Still Matters

Nobody can deny the importance of preparation. Students spend months practicing

aptitude tests, brushing up on coding skills, sitting through mock interviews, and perfecting their resumes.

On paper, it looks simple—study hard, prepare well, and success will follow. But in

real life, things don't always turn out that way. You could be fully prepared and still miss out, while someone less polished cracks the interview. That's when the role of luck comes into play.

Where Luck Sneaks In

There are so many factors students cannot control:

- **The Shortlist Game:** Companies often filter students by a strict percentage cut-off. One bad semester in the past might cost you the chance to even sit for your dream company.
- **Timing Troubles:** Maybe the company you really want comes early in the season, before you feel ready. Or maybe it never visits your campus at all.
- **Interviewer Bias:** Sometimes, two students perform equally well in an interview, but only one gets selected—because of how they "clicked" with the interviewer.
- **Pure Chance:** A single tricky question or one nervous mistake can change the entire outcome.

These tiny moments often decide the big picture, making placements feel like a lottery.

The Silent Struggle: Referral Embarrassment

Then comes referrals, which is a topic we don't typically discuss. Having a corporate employee who can recommend you can make a huge impact in today's job market. However, not all students are

at ease asking for assistance.

Many are hesitant because they fear appearing desperate or being flatly refused. Some people prefer not to "owe" favors to others.

This referral embarrassment holds back talented students while others, who are more confident in networking, grab the opportunities. Once again, luck seems to reward the ones who know the right person or dare to ask.

The Harsh Reality After Getting Placed

Even the ones who ultimately overcome the placement barrier are confronted with the following reality: the job market is not always just.

Most freshers find that their paychecks leave them with little to meet their ends, and their workload is overwhelming. Long working hours, perpetual pressure, and no appreciation usually leave students wondering whether the so-called "success" was all worth it.

Watching friends in different companies with lighter workloads and better pay makes it clear — luck doesn't just decide who gets placed, it also determines where you land and how you're treated.

Stories We All Know

There are tales of the top student who consistently loses out on offers, the typical kid who unexpectedly receives a dream career, or the quiet student who is employed thanks to a family recommendation on every campus.

Some people are unfortunate enough to suffer with low-paying jobs even when they are clever.

These tales serve as a reminder that, although hard work is important, luck frequently has a greater influence than we'd like to acknowledge.

The New Anxiety: Getting Benched

A more recent trend has added to students' frustration with getting benched. This happens when companies hire freshers but don't assign them any real project work for months. Instead, they're left sitting idle, waiting for a client allocation, often earning very little and learning even less.

For many, the excitement of finally being placed quickly turns into disappointment as they realise they are stuck in a limbo, neither gaining experience nor building their career.

Some are even let go after months of bench time. Once again, luck plays its role: one student gets a good project immediately, while another is benched indefinitely despite being equally qualified.

So, Is It All Luck?

Not entirely. Luck may decide whether an opportunity comes your way, but your preparation decides whether you can grab it.

The students who keep learning, who stay flexible, who don't give up even when campus placements disappoint—they eventually find their path. It may take time, and it may not be through the traditional placement drive, but resilience often beats luck in the long run.

Placements feel like a roll of the dice. Sometimes you win big, sometimes you're left frustrated.

Referral embarrassment, unfair workloads, underpaying jobs, cut-offs, and the moods of interviewers—all add layers of unpredictability.

But here's the truth: campus placement is just one doorway into your career, not the final destination.

Luck might open the first door for you, but it's perseverance, skill, and self-belief that will help you through the rest of the journey.

The Art of Slowing Down

KRIPA DHANDHANIA
2 MCA A

Man, these days, time's slipping away faster than you can say "wait up!" Everyone's glued to their phones, racing from one thing to the next, barely stopping to breathe, let alone think.

It's almost as if you're not in turbo mode 24/7; people start looking at you like you're slacking off. Wild, huh?

The kicker is that pausing is a sign of genius rather than laziness. Your brain can relax if you take a moment to unwind. Think about it. Have you ever tried to relax with a cup of coffee and enjoy the atmosphere without using a phone or making any other noise? You feel so much lighter, it's unbelievable. Or how about a little walk at sunset, when the sky is changing into a rainbow?

These tiny pit stops are where you notice the small good stuff, the wind making those leaves shimmy, that street dog wagging his tail, your friend's bad jokes landing perfectly.

For students, dude, the hustle's even more real. Everyone's out here obsessed with grades, checklists, gold stars... makes your head spin. Thing is, the mind's best ideas don't always hit you in the middle of a cram session.

Sometimes, like a lost philosopher, inspiration comes while you're just lying on your back and gazing up at the ceiling.

To be honest, slowing down doesn't imply poor performance. It indicates that rather than merely thrashing around, you'removing with intention. Quietness? It is indeed underappreciated.

You can rejuvenate there, refocus, and laugh at the whole need-for-speed charade. Because, in the end, enjoying the ride is more important than running quickly.

Short Circuited Life

Chrisma Serrao
Class: 5MSAIM

Physics 101: How to deal with a short circuit?

The concept of an electrical short circuit involves finding an unintended path for electricity.

This excessive power surge can cause the system to fail. We usually avoid this situation by understanding what components of the circuit have caused it, and getting an adaptive circuit components, such as a resistor or voltage regulator, so that the circuit is not provided with an excessive amount of electricity, and you get high-quality materials. All of these do not necessarily guarantee a smoother flow, but they do help.

Now, this article is not really about dealing with a short circuit, but rather dealing with some of the unanticipated and unexpected events in our lives.

The times when you sincerely want to do something in your life but can't, things do not necessarily go your way, and you do not know why, or the times when you have done everything in your power to make things right, but they still do not seem to go right, the times when you think you are ready for it. However, the universe does not give you the opportunity, and you think you will never get an opportunity to do so again. The feeling of losing your youth, just because you have not tried enough.

How exactly does all of this relate to an electrical circuit or a short circuit in a circuit board? Let me tell you how everything on earth relates to science, well, somehow, in this case,

Physics (P.S., this is not my favourite branch, but I like it enough, less than mathematics).

Rule 1: The Breaker Switch

In life, pausing and taking a step back can help deal with the emotional surge caused by unfavourable events.

Panic, anger, or despair are natural and inevitable human reactions when things do go wrong. The idea is not to stop those emotions but to divert your energy into solving things.

Rule 2: Diagnose the Faulty wire

Find the cause of the problem with some weighty introspection, and understand what causes the issue, and whether there were some internal or external factors involved. *The key here is not to blame but to be aware.*

Rule 3: A firm decision

Now that you are aware of what is happening, you have to decide if you want things to stay the same or if you want to change things for the better.

Make a firm decision and stick to it until the very end. Since you know that you cannot turn back once you make the decision, you have to be careful about it.

Rule 4: Rewire your system

All you need is a strategic plan to turn things around.

Moreover, trust me on this, it works; if it does not, you will have to learn from it, you will have a better idea of what has to be done and what should not be.

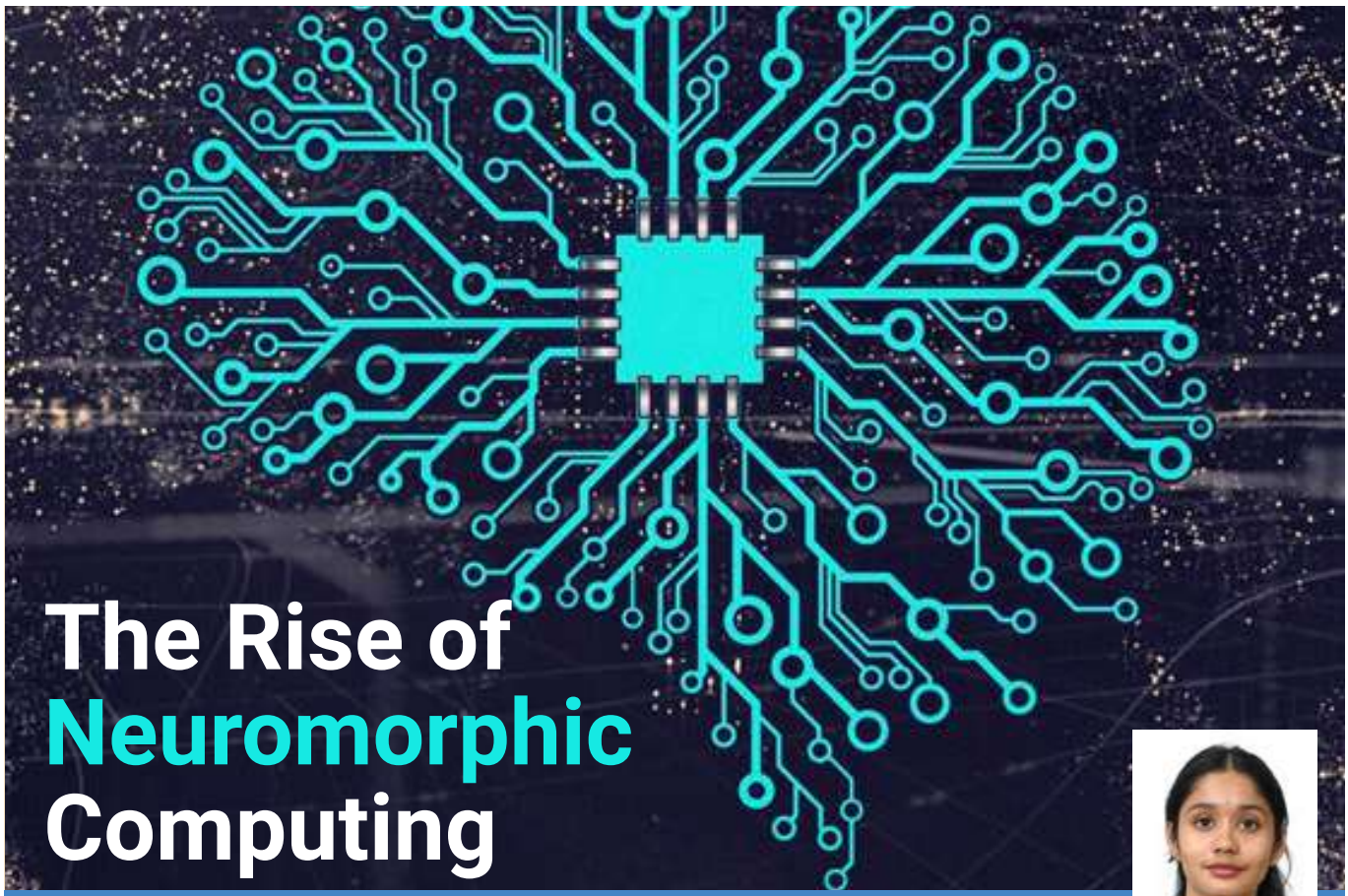
Rule □: And the last but most important rule

Life is infinite. Though life seems similar to many theories in science or philosophy, it is not really the same.

Life has infinite ways to go around things; unlike an electrical circuit, we have people around us, we have our well-wishers, our friends, family, and people who are always ready to Help as long as you ask them.

As you rewire your life, remember your most valuable asset: the vigour of youth. This is not about age; it is about a state of mind.

You are in your youth as long as you have the will to work hard, expect the unexpected, and face all the hardships that come your way while chasing your dreams. Age and social status seem like factors, but they only have as much control as you give them. Your power source is the resilience, the drive, and the hope you carry within you.



The Rise of Neuromorphic Computing

Neethu Sajeeve
Class: 2MCA A

The Rise of Neuromorphic Computing

For years, conventional computers have relied on the von Neumann architecture—a design where processing and memory are distinct. This system has worked for us, driving everything from calculators to supercomputers. But with AI applications calling for faster, more power-efficient systems, researchers are looking to a new model based on the human brain: **neuromorphic computing.**

Neuromorphic computing is hardware and software that emulates how the brain processes information using neurons and synapses. In contrast to the sequential handling of tasks by traditional processors, neuromorphic chips deal with data in **parallel,** similar to groups of neurons. This results in them being highly efficient for activities like pattern recognition, vision, and decision-making—domains where the human brain continues to excel over classical machines.

One of the defining characteristics of neuromorphic systems is **spike-based communication.** Rather than constant signals, these chips use brief bursts of data like human neurons fire. This technique lowers power usage dramatically, enabling neuromorphic gadgets to manage intricate calculations with low energy.

For example, **IBM's TrueNorth chip and Intel's Loihi processor** have demonstrated great promise in simulating millions of neurons with only a few per cent of the energy that traditional CPUs or GPUs need.

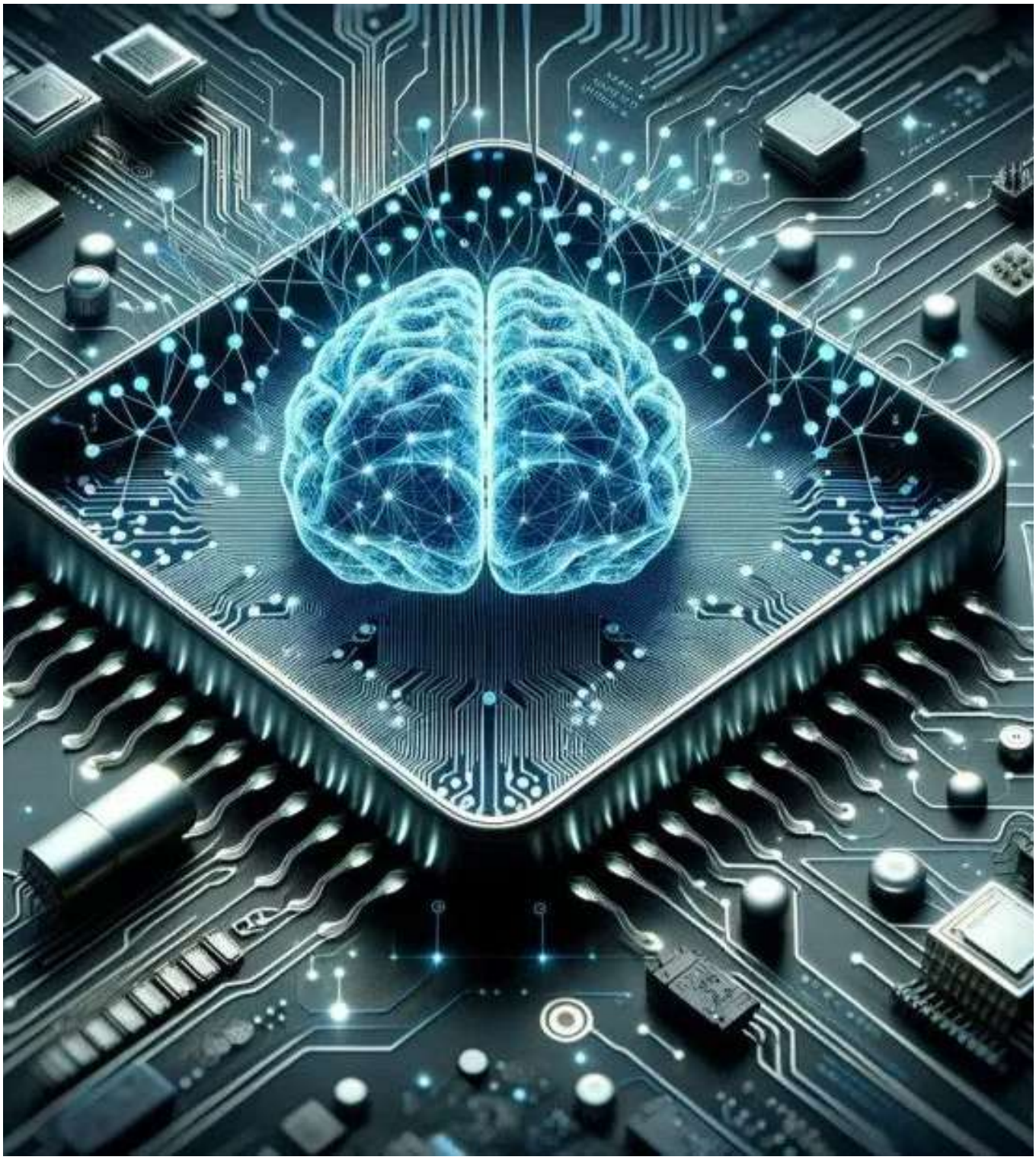
The potential applications of this technology are enormous. Consider a driverless car able to detect objects and react instantly without depleting its battery. Or bedside medical equipment that can process patient information in real time without needing to go to cloud servers. Neuromorphic systems might even energise **next-generation robots** that could learn from their surroundings in a manner more human-like than current flexibility.

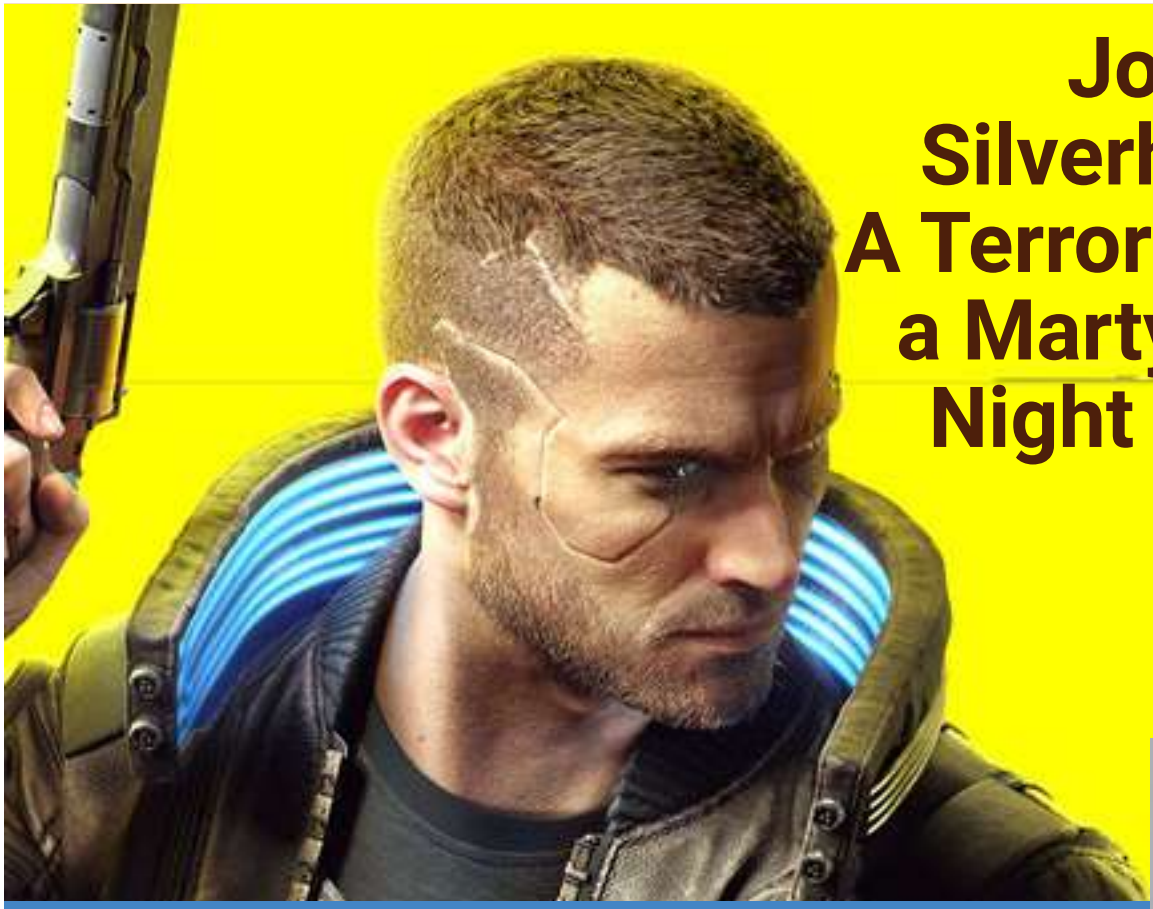
Scalability is one of the more exciting features. Large data centers are typically required for the training and operation of conventional AI architectures,

which is costly and bad for the environment. On a much smaller scale, neuromorphic chips can accomplish the same thing, which should **increase the accessibility and environmental friendliness of AI.**

Of course, there are still difficulties. Neuromorphic system programming means moving from traditional code to **spiking neural networks (SNNs),** an emerging field of research. *Standardisation and interfacing with the current infrastructure are also barriers that researchers have to break.*

In spite of these challenges, the advent of neuromorphic computing is a huge step forward. **Merging biology and technology** paves the way for machines that compute and *think in more human-like ways.* With this technology, as we move forward, we might find ourselves surrounded by devices that learn and evolve as efficiently as the human brain—**marking a new era for computing.**





Johnny Silverhand: A Terrorist or a Martyr for Night City?

Sounak Chakraborty
Class: 2MCA A

To anyone familiar with the world of Cyberpunk 2077, Johnny Silverhand is either their Hero or a Terrorist scum that plunged the world of Cyberpunk into turmoil.

V, our character in Cyberpunk 2077, is the main protagonist of the game, but Johnny plays a major role in progressing the story of Cyberpunk.

He is the catalyst for all of the decisions that V makes in the game, as he is literally a parasite living in the head of our main character after being implanted with his chip after the Arasaka Heist goes terribly wrong for V and his best friend Jackie.

But if we skip past the story of Cyberpunk and look at the lore and the world, the creators of the game and the tabletop RPG, CD Projekt Red and Mike Pondsmith have envisioned Johnny to be an extremely polarising figure in the world of Cyberpunk 2077.

Johnny's infamy grew during the 50 years before the game starts in the year 2077, while he was still known as the frontman of the Rock band Samurai.

Johnny's popularity grew with the anti-establishment and anti-capitalistic ideals that he promoted after being a soldier in the Bloody Central American conflict, that radicalised him and let him see how corporations treated people like him, just as numbers instead of an actual human being In 2013, Johnny lost his girlfriend, Alt Cunningham, a brilliant Netrunner in her own right, to the Arasaka Corporation that kidnapped her and forced her to create the SoulKiller Program.

Johnny, enraged by this, plotted his revenge and in 2023, he did the one thing that was thought so insane and so diabolical that even his long-time friends were unwilling to help him.

So he teamed up with Militech, the watch rivals of Arasaka and Rogue, the top fixer in the city, decided to nuke the Towers of Arasaka in Night City.

This act of violence changed Night City, leading to the 4th Corpo War between Arasaka and Militech, which changed Night City into an Authoritarian Hellscape.

While in the current time of the game, Johnny is viewed in 2 different lights. While the rich and powerful see him as a Terrorist full stop, these elites view him as a narcissistic anarchist who puts his ego before thousands of innocent lives, but deep down, in the highrises, in the streets among the gangs, the outcast Johnny is a Martyr.

He was the only person willing to stand up against the tyranny that these corporations subject the common man to.

Johnny Silverhand is the perfect representation of the world of Cyberpunk, which is neither righteous nor pure evil.

Night City in itself lives in the shades of grey. In itself Johnny is a paradox, a man willing to kill thousands of innocent lives just so a million in the future can live happily.

So to answer the question if he's a terrorist or a Martyr, that's on you, my friend, who's reading this article, so what do you think?

CampusWell

Gebin George
Class: 5 MCA B

College experiences often begin with a lot of excitement but can soon become overwhelming. It's pretty easy to see how academic pressure can definitely pile on. And then you have social pressure to manage, too. And finally, there are often personal challenges as well that just silently creep in. Research from college student surveys shows that this kind of shift does occur.

However, the shift may not be true for all students. Still, studies show how these factors combine to create real stress. Basically, the excitement fades, and reality sets in. Students often end up struggling just to find some kind of balance. Mental health support really matters here. And open communication, too. But they're not always easy to get in the usual campus setups. Evidence shows that traditional systems fall short sometimes.

Introduction

That's where CampusWell comes into play. It steps in to help bridge those gaps. CampusWell stands out as a digital setup aimed right at students at Christ University. It pulls in a web app along with a WhatsApp bot. Basically, the whole thing builds a kind of safe spot for students to link up, swap stories, and grab some support when they need it.

Evidence points to how mixing that social media vibe with straight-up wellness tools really shakes up the way students interact with their school and each other. You know, it appears to make things feel more connected, even if it's still in the early days of seeing the full impact.

The Web App – Social + Wellness Hub

The web app really sits at the core of CampusWell. It's built with Next.js to handle things efficiently, performance-wise. And Firebase comes in for that smooth backend setup, you know, without any hitches. Basically, it works as this mix of a social feed where people connect, plus a spot full of wellness resources that folks can tap into whenever.

Key Components

1. **Activity Posts:** If there are students who want to organise a basketball match but don't really know who else is interested. With CampusWell, they can post the activity, specify the time and number of players needed, and instantly reach like-minded peers. Research suggests this kind of setup really helps with social bonding.

2. **General Posts:** Just like tweets, students can share updates, reflections, or lighthearted content. It's a space for everyday expression.

3. **Concerns:** Students often hesitate to approach faculty directly about issues, as they are not always comfortable. They can share academic, social, or personal difficulties that they are facing. This creates a transparent channel where their voices are heard.

4. **Mind Wall:** Sometimes problems don't hit just a single student and are a common issue faced by many. The Mind Wall lets people post their shared worries, and others can upvote them. The really big issues climb to the top, making it easier for faculty to act quickly.

5. **Well-being Activities:** CampusWell steps in with guided exercises, like breathing sessions, meditation routines, and sleep tips. These things break down into tasks that students can actually do. Evidence points to the fact that hands-on stuff really helps build habits that last.

6. **Moderation & Admin Controls:** Moderators check posts and delete inappropriate ones. Admins can add/remove counsellors and moderators, and look at complaints at the department level. This ensures balance between free expression and oversight.

The WhatsApp Bot – Private Student Support

While the web application provides the community and visibility, the WhatsApp bot offers a more private, direct interaction. Built using the WhatsApp Cloud API, it extends support into a familiar messaging platform students already use daily.

Features

1. **Anonymous Complaints:** Students get to share their worries without revealing their identity. That really cuts down on hesitation to speak out.
2. **Counsellor Session Bookings:** Students can directly book one-on-one sessions with counsellors through the bot. They just text it and book—straightforward and simple.
3. **Department Complaints:** IT outages, housekeeping messes, academic issues—students can send complaints straight to the relevant department. Heads only see their own team's issues, while administrators monitor overall trends.

This setup uses two channels: one public through the web app, and one private on WhatsApp. So, *students always have a way to reach out for help or clarity.*

Why CampusWell Stands Out

CampusWell isn't just another student portal. It's a community-first wellness initiative. By merging the connectivity of a social feed with the privacy of a chatbot, it acknowledges that student wellness has many layers:

- Some need a space to connect and bond over activities.
- Others need tools to manage stress and mental health.
- Many need an anonymous channel to raise issues without fear.

CampusWell brings all that together in one spot. For faculty and admins, it's helpful as it shows what is troubling students. For students, it creates a way to feel in control, collaborate, and get real support—all in one easy-to-use setup.

Conclusion

CampusWell goes beyond just a project. It's really a vision for making campuses healthier and more connected overall. It also tackles social needs right alongside mental wellness, ensuring that no student ends up feeling alone, and no concern gets ignored or brushed off.

It mixes web tools with WhatsApp modules. This setup builds a supportive space. Students can thrive there academically, socially, and emotionally, pretty much without missing a beat.

Why AI will bring more jobs than you think

Samuel P Shine
2 MCA A

AI is poised to create more opportunities—and jobs—than most people expect.

Throughout history, major technological leaps such as the Industrial Revolution have sparked anxiety about mass unemployment, yet have repeatedly generated entirely new industries and professions.

A close look at the trajectory of previous industrial revolutions, recent research, and insights from leading thinkers suggests that AI will be a powerful engine of job creation in the coming decades.

Lessons from Historical Transformations

When the steam engine and mechanised factories arrived in the late 18th century, the world feared the loss of manual labour and craftsmanship.

However, as industries grew, new types of work flourished: operators, engineers, mechanics, and eventually whole layers of managerial and technical roles.

The rise of the factory system multiplied employment options, improved living standards for many, and accelerated urban migration. By 1900, jobs in textiles, logistics, and infrastructure had replaced most agrarian roles, and new professions seemed to emerge with every decade.

Fast forward to the digital revolution: computers and the internet eliminated millions of clerical jobs. At the same time, they created entire sectors—IT, digital marketing, app development, cybersecurity, and more.

As technology historian Tim O'Reilly put it, "What new technology does is create new opportunities to do a job that customers want done".

The AI Job Boom: What the Research Shows

Contrary to the dystopian narrative, contemporary research indicates that AI is a net creator of jobs.

The World Economic Forum projects a global gain of approximately 97 million new roles by 2025 due to AI advancements—outpacing any losses from automation. PwC's 2025 Global AI Jobs Barometer reveals that AI is making workers more valuable across industries, not less, even in jobs highly susceptible to automation. AI-driven growth is already visible in manufacturing, healthcare, logistics, and creative sectors.

While some repetitive, routine tasks are vanishing (such as data entry and transcription), entirely new jobs are emerging: AI trainers, explainability specialists, robot maintenance engineers, prompt engineers, and creative collaborators.

The Skill Shift: Human Talent at the Centre

Redefinition of roles rather than task reduction is the true force behind AI-powered job creation.

In order to supervise, direct, and enhance AI systems, humans will need to possess abilities like creativity, empathy, problem-solving, and flexibility.

Leading AI researcher Fei-Fei Li observes: "AI doesn't have ethics." That's our job". Bill Gates similarly argues, "The best way to prepare for the future is to build it".

The Fourth Industrial Revolution: More Jobs Ahead

History has shown that every wave of automation—from steam to electricity to the internet—has created more work, not less, for those willing to adapt and learn.

Harvard Business Review observes that "the addition of technology to human labour has never failed to boost productivity, economic growth, and job creation in the long run." New research from Stanford's 2025 AI Index finds that 78% of organisations are already increasing employment opportunities as AI tools reshape business functions.

What the Surveys Say

Based on the World Economic Forum (2025), AI will generate 97 million new jobs around the globe, and this is largely technical, artistic and education jobs.

In addition, PwC (2025), reports also that businesses that use AI, generate three times growth in employee generated revenue compared to those that do not.

78% of companies claim that the use of AI has resulted in the establishment of new job categories and increased responsibilities, according to the Stanford AI Index (2025).

Conclusion: Together, We Can Build the Future

AI is a job creator and transformer rather than a job destroyer. The true danger is not that technology will take over all jobs, but rather that society will not advance and change quickly enough to take advantage of new opportunities.

As Alan Kay observed, "The best way to predict the future is to invent it". With curiosity, courage, and a commitment to learning, the workforce of tomorrow can become the architects of an age where technology liberates—and multiplies—human talent, not just replaces it.

Think It. Twin It. Perfect It.

Sharmila B
Teaching Associate, Computer Science

What if every machine in automobiles, buildings, or even an entire city had a second life in this digital world? It's not a photograph or a 3D model, but rather a living edition that breathes data, learns data, and grows alongside its real-world twin. That's the Digital Twins.

What Are Digital Twins?

A Digital Twin is like giving technology a mirror in cyberspace. IoT devices, sensors, drones, and Artificial Intelligence are used to continuously feed information into this mirror, so the virtual twin reflects reality in real time.

The primary use of Digital Twins is to test ideas before implementing, predict problems, and explore "what if" scenarios without risking damage in the real world.

Practical Applications

Imagine a factory where machines never suddenly break down, because their digital counterparts already warned engineers about minute faults much earlier.

Visualise a hospital where doctors can rehearse surgery on a patient's virtual organ before operating on the real organ. Or a city where traffic congestion is predicted and resolved before it actually occurs, tracking air quality and solving power outages inside a simulation long before citizens are affected.

Not Just Science Fiction

These examples are not just futuristic dreams but real potential concepts. Currently, NASA uses digital twins to monitor spacecraft, industries rely on them for predictive maintenance of machinery, and urban designers build virtual models of smart cities to balance sustainability with growth using this evolving technology.

Conclusion

We are in a world where mistakes are costly and resources are limited. Digital Twins teach us that the future doesn't need to be trial and error. Instead, we can design it, test it, and perfect it twice.

Justice's Shadow in Ages Past

Omkaar Chakraborty
Class: 2MCAB

Beneath the flicker of torches and the thunder of distant wars, a silent kin walks rooftops and ruins, guided not by riches or crowns but by one stubborn hope: that every soul on Earth deserves real choice.

Across centuries, whether in storm-whipped harbours or golden piazzas, this old war never rests. Each era finds its own Assassin—a reluctant guardian stitched together by pain, defiance, and sacrifice, always facing Templars who scheme for dominion behind gilded doors.

History's tapestry is mottled and unruly; where justice falters, the Creed threads its way past church and palace, whispering the promise of freedom to all who dare to listen.

Protagonists Across the Ages

Kassandra – Greece's Unbroken Spirit

Picture the wind howling between stone pillars, men wrestling beneath all-dominating skies. Enter Kassandra, weathered but unbroken, her fate caught up with the First Civilisation.

Her weapon is not mere metal—it is history made real, cutting through the confounding mix of myth and reality.

Every choice she makes flutters outward, unspooling fate in directions the gods themselves could not predict.

Bayek – Egypt's Quiet Guardian

Sunset over Siwa bathes the sand in merciless light.

Bayek mourns; ahead lies ruin and betrayal, behind—love and lost kin. His hands, steady as stone, shape the Creed of future centuries. Each silent footstep on temple dust is a prayer: "Let the world live without fear." In his sorrow, he builds something lasting—an invisible brotherhood beneath kings and conquerors

Eivor – Among the Fjords and Flames

Axes rise, frost glitters on midnight water, and Eivor guides her people toward uncertain shores. Her journey bristles with oaths and broken idols; new faith clashes against old ways as ice melts into the river of history. She charts her own legend by deed and risk, forging alliances where trust is fragile, loyalty tested, and defeat never final.

Altaïr – Masyaf's Watchful Hawk

712 years ago, a young man in a white hood vaulted through Crusader cities—reckless, proud, determined. Altaïr remakes himself through error and humility, leaving behind scrolls and wisdom for those yet unborn. His legend is both anchor and compass: a mentor's voice ringing in every haunted corridor where the Creed endures.

Ezio – Renaissance and Revenge

Florence basks in candlelight, intrigue thickening every whispered conversation. Ezio, once naive, is tempered by grief and vengeance. Decades slip past: rivalries flare, romances bloom, and the city itself seems to watch him grow. In art and passion, he finds purpose larger than any grudge—his legacy winding from villa stairways to Ottoman rooftops.

Shao Jun – Whisper Beneath the Dragon Throne

Quiet as the moon, Shao Jun slips through forbidden courtyards. Guided by letters and memory, she shapes rebellion in a world obsessed with hierarchy and order. Her courage spreads, subtle as rain, proving that the Creed is neither European nor Eastern—it belongs to anyone who fights alone for the silenced. and conquerors

Shay Cormac – Between Light and Darkness

Snow falls, suspicion grows, and Shay breaks his oath. His journey is sharper than any blade, painting brotherhood and ambition in shades of grey. Not every path leads home; even the strongest, tested by pain, may choose a new cause when ideals twist into regret.

Edward & Adewale – Tempest on the Caribbean

Sea-spray stings as cannons roar—Edward Kenway chases profit, then stumbles onto meaning. Slavery haunts Adewale, who fights for dignity on shattered decks. Their destinies entwine, both learning that freedom is a call more intoxicating than any treasure. Betrayal, loyalty, escape—their lives crash together, scattering old chains on new horizons.

Aveline – Masks Among Marshes

Fog creeps across Louisiana's swamps as Aveline moves in three worlds—lady, slave, Assassin. Each mask she wears reflects a different truth; each lie she tells serves justice in ways the powerful cannot see. Her courage under crushing laws and suspicion is a lantern for those who've never belonged.

Connor Kenway – Revolution's Unseen Hand

Guns thunder as empires crumble, yet Connor's story is quiet—a struggle to connect two heritages, searching for belonging amid revolution. Deep forests and city streets tremble as his blade finds purpose in uncertain peace and hard-won liberty.

Arno Dorian - Through Parisian Fire

Blood dries on cobblestones as Arno wrestles with fate. His bitterness, his love, his stubborn hope—the French Revolution tests them all. Paris burns and forgives in turns. Arno walks alone, believing that redemption always requires sacrifice.

Legacy of the Creed

History rarely offers simple victories. In ancient myths, in sand-blasted temples, and in whispered rebellions, the Assassins shape destiny by risking their own hearts.

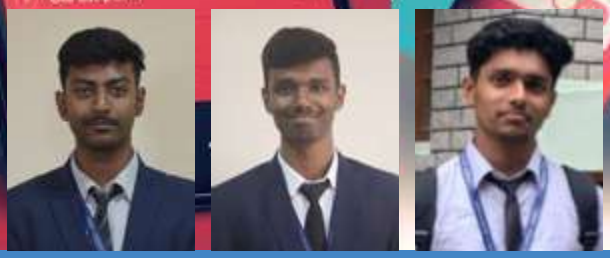
Templars never cease their chase; the Creed never drops its guard. Ideals clash, generation after generation, as every hero leaves both wounds and wisdom behind.

And beneath every epoch, the dream remains:

"Where other men blindly follow the truth, remember—nothing is true. Where other men are limited by morality or law, remember— everything is permitted."

The journey endures, stitched into the pulse of time, awaiting the next shadow to move— and the next story to be told. And so, the timeless journey continues.

Importance of Creative UI and Design in the Modern Era of AI



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Artificial Intelligence (AI) has revolutionised decision-making, industry, and how people interact with technology.

However, the effectiveness of AI depends not just on algorithms but also on how people utilise them. The foundation for bridging complex AI features with human understanding is a creative user interface (UI) and design.

The article explores the significance of creative UI and design in the age of AI, with emphasis on usability, trust, inclusiveness, and ethical interaction as the central pillars of effective human–AI collaboration.

Artificial Intelligence has moved from a niche research paradigm to a daily reality, driving recommendation systems, chatbots, healthcare applications, and autonomous vehicles. Though it possesses immense capabilities, it continues to evoke distrust and reluctance among users because of its very complex and opaque nature.

That is where innovative UI and design play an inevitable role.

An intuitive interface takes convoluted AI processes and turns them into user-friendly, engaging, and trusting experiences, allowing more users to take advantage of sophisticated technologies.

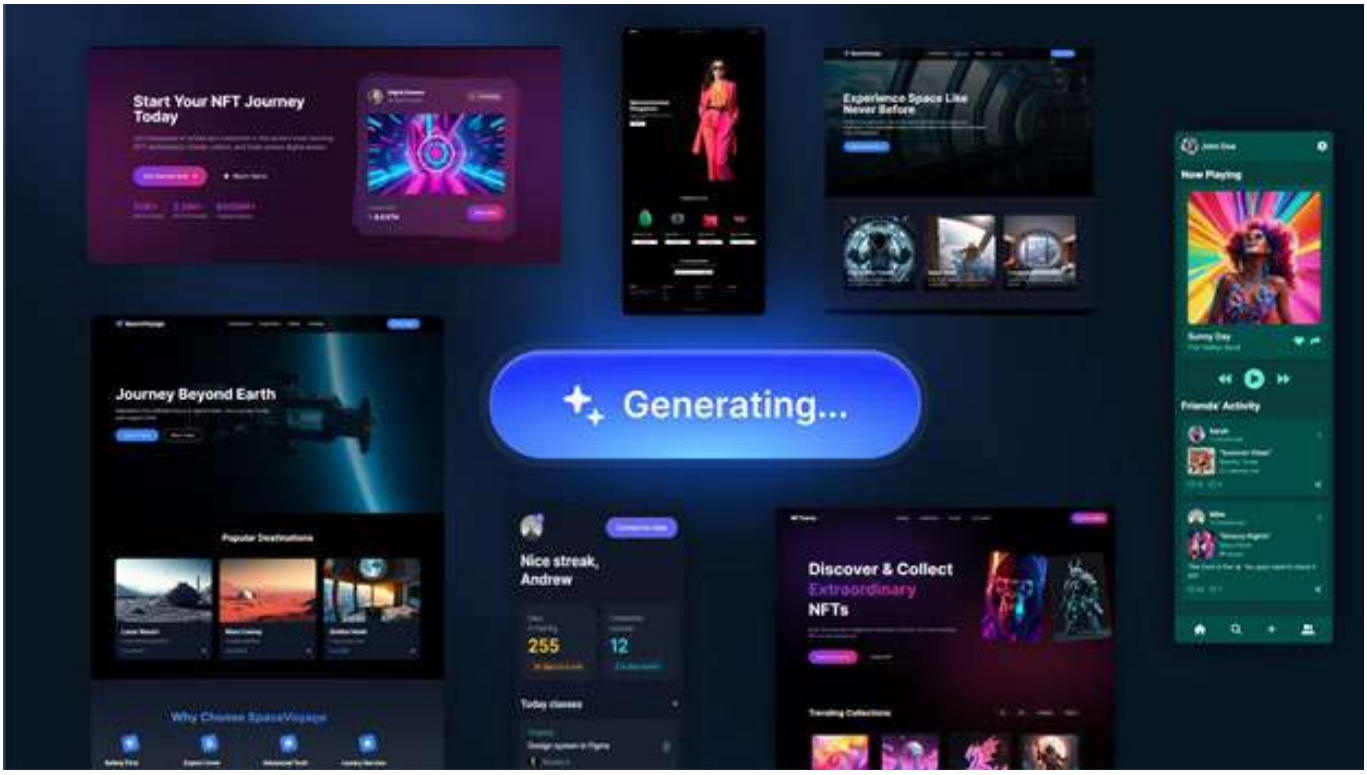
Innovative UI design is more than beauty: communication, clarity, and an emotional connection.

In the age of AI, interfaces need to assist the user in interpreting results, receiving feedback, and exercising mastery over automatic systems.

In healthcare applications, for instance, predictive models of AI are only worthwhile if clinicians can readily interpret the results through visual dashboards and be confident in the process driving them.

In e-commerce, recommendation systems developed through AI depend on user-centred designs to stimulate discovery without exciting or confusing the shopper.

Another fundamental obstacle to the uptake of AI is trust. Black-box AI systems seem opaque and



make users uncomfortable regarding decision-making processes. Creative UI design counters this by including transparency elements such as progress indicators, explainable AI dashboards, and visual feedback that conveys system logic.

Users who comprehend the AI's decision-making process are more inclined to accept and trust the technology.

AI systems are becoming increasingly global, with users from various backgrounds, skill levels, and cultural settings. The continued inclusiveness and accessibility of these systems is a function of their design and creativity.

Flexible design, voice Interface, color, and typography can close digital divides appropriately. For example, unique interface design elements such as voice-based navigation and haptic feedback are critical in assistive AI applications for the blind or low vision.

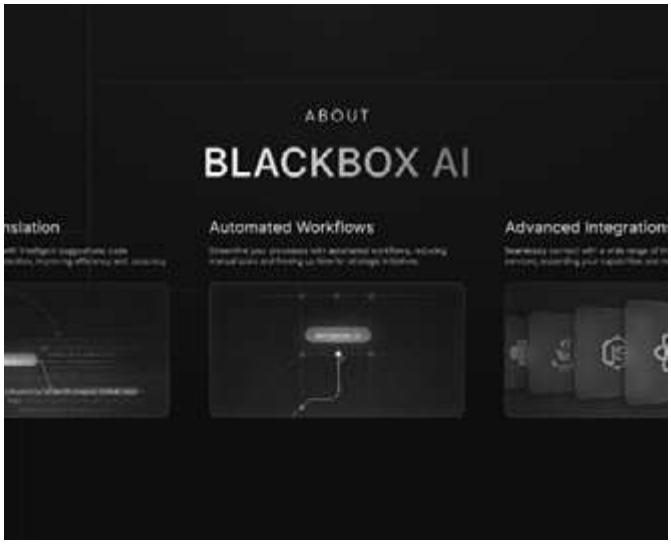
The increasing influence of AI brings about ethical concerns related to autonomy, fairness, and bias. Considerations for ethical creative UI design include measures to gain consent, means to opt out transparently, and human-in-the-loop solutions so that power is not stripped away from users.

Developers can produce AI systems that respect user autonomy and lower the risks of becoming overly dependent on automation by prioritising human-centred design.

Creative UI and design are essential to successful technology, not attractive extras in the modern AI era.

The ability to bridge the divide between complex algorithms and human understanding drives usability, trust, inclusivity, and ethical consistency.

As AI grows, the requirement for imaginative design will only grow and shape the future of interactions between humans and machines for the better while being responsible.



From Van Gogh to Generative AI, Shakespeare to Chatbots:

Tracing the Future of Artistic and Literary Truth

Nisha Varghese
Assistant Professor, Computer Science

With the advent of Generative AI, it is very difficult to understand what is truth and what is false. Recently, social media went viral with the story that Jessica Radcliffe, a 23-year-old Orca Trainer, was killed. But the truth is, that story is not real. The video and its voice were created with Generative AI.

Fact-check reports confirmed the video is entirely fake, and there is no person named Jessica Radcliffe. Can you identify the original image of Vincent van Gogh's "Wheat Field with Cypresses"? Right or Left? It is tough nowadays to detect Right and Wrong. Is it Paint or Pixel? Real art or imitation? Brush strokes or algorithms? The answer: Left is GenAI and Right is Van Gogh.

Van Gogh vs GenAI: The Brush and the Pixel

The first thing noticed when comparing the two works is the performance and touch of the brushes. In the original image, Van Gogh's Impasto Technology clearly manifests—cleansing the colourful surface with white, impairing the surface with colour, stitches, and layers.

In the clouds of the sky, the wheat fields are small, discontinuous, and thick, swirling almost like a tornado. This makes you feel uncomfortable yet diverse in the image. On the other hand, the GenAI image softens this power. The strokes are elongated and soft, more slender digital interpretations that reduce Van Gogh's artistic strength.

The colour palette also creates a substantial difference. Van Gogh's image bursts with high contrasts and intensity—bright golden-yellow greens, cloudy white, cream tones, and blue-grey shadows. These choices heighten the emotional energy.

Meanwhile, the GenAI version uses soft pastel tones. The wheat leans green, the sky pales into turquoise, and the trees blur together instead of being distinctly brushed. The result is calm and decorative but not loyal to Van Gogh's raw style.

Shakespeare to Chatbots: Sonnets to Algorithms

At the beginning of the 1600s, William Shakespeare could never have imagined machines imitating his words when he wrote "to be or not to be" with his quill. The language journey since then has been extraordinary, from candlelit theatres to today's chatbots.

Shakespeare's sonnets were more than rhymes—they captured rhythm, grace, and profound human essence. He was a master of parables, editing words into timeless reflections of human character. Language was then purely human, celebrated in theatres, classrooms, and manuscripts.

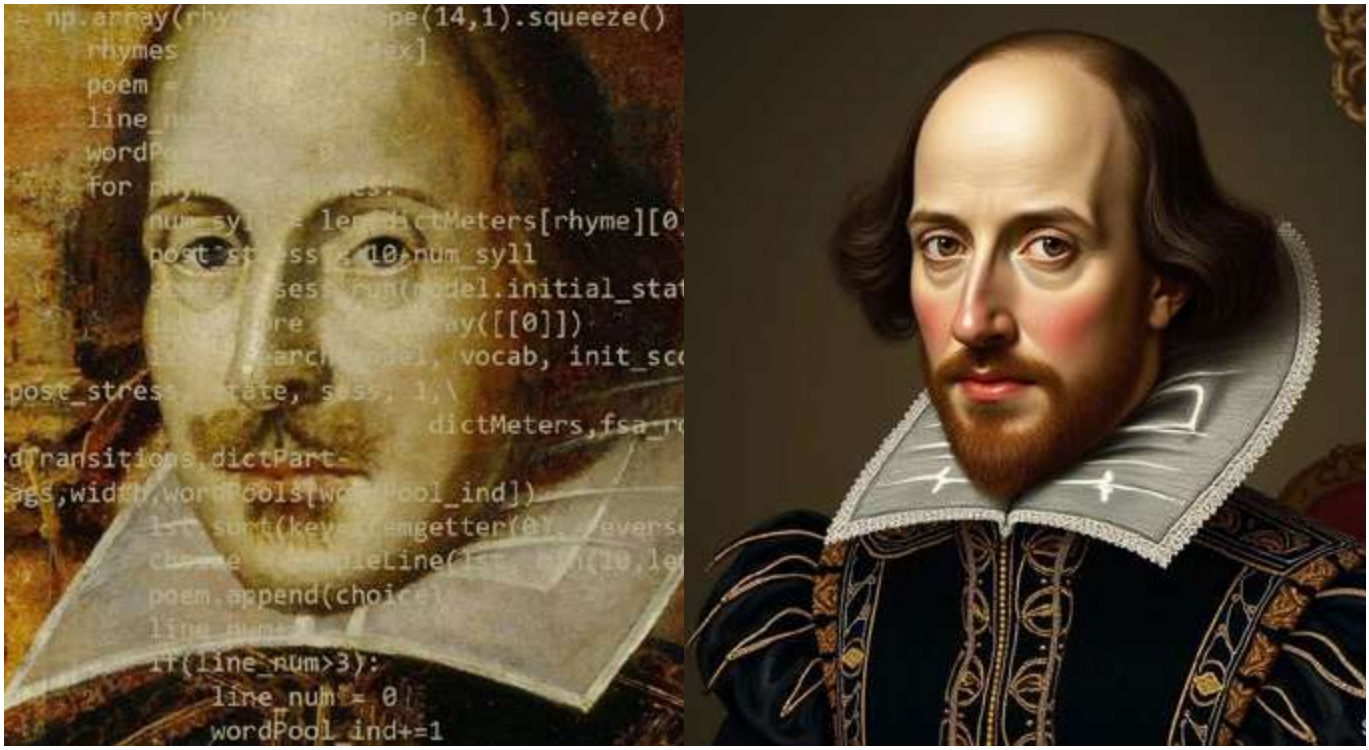
If Shakespeare lived today, he might turn to a chatbot for inspiration. Sonnets have transformed to Systems, Poetry to Programs, Verses to Virtuality, Epics to Algorithms, Drama to Data. This is the new evolution of language models.

Detecting AI Shakespeare

Unlike images, it is arduous to differentiate Shakespearean text from Generative AI text. A well-trained model can properly imitate his style. Iambic Pentameter—a rhythmic meter with 10 syllables per line alternating stressed and unstressed beats—is often used for detection.

But Shakespeare's real writing mixed regular lines with unstressed syllables, feminine endings, and wild variations of emotion. His works also used collocations like "I prithee," "good my lord," "by my troth," "'sblood," "marry, sir," "methinks," "faith," "nay," "ay."

Chatbots can imitate but often lack this irregular human spontaneity. Research continues with Stylometry, sanity checks of N-grams, metrics, and meters to further differentiate Shakespearean texts from chatbot completions.



AI in the Classroom: Challenges and Opportunities

Bhuvana Jayabalan
Associate Professor | Department of Computer Science

Artificial Intelligence (AI) is slowly transforming the education industry by allowing personalised learning, smart tutoring, and smart classrooms. Nevertheless, the concept of implementing AI in the classroom has many challenges that should be considered.

The biggest concern is the digital divide; not all students are equally exposed to devices, reliable connections, and digital literacy. This can deepen already existing inequities between privileged and underprivileged students. Teachers too face obstacles—many fear losing their jobs or struggle to work with AI-based systems without proper training and assistance.

Another issue is data privacy and ethics, since AI tools directly process a prodigy of student data with the threat of abuse, algorithm prejudice, and unfairness. A further constraint is the high cost of implementation, especially in governmental institutions with limited budgets. Finally, there is the threat of over-reliance on technology, where students may lose critical and creative thinking skills, giving unthinking attention to automated responses.

Solutions for Adoption

Despite these challenges, there are viable solutions that can make AI adoption in education successful. Digital inclusiveness can be promoted through low-cost internet, device-sharing programs, and open-source AI tools.

Teachers should be supported through professional training programs that empower them to see AI as a facilitating tool, not a replacement. AI can serve as an aid in assessment, content delivery, and interaction when used correctly.

Powerful policies and open practices must address ethical and privacy concerns. Institutions can also adopt cost-efficient techniques like pilot projects, cloud-based services, and freemium tools to manage expenses.

Balanced Integration

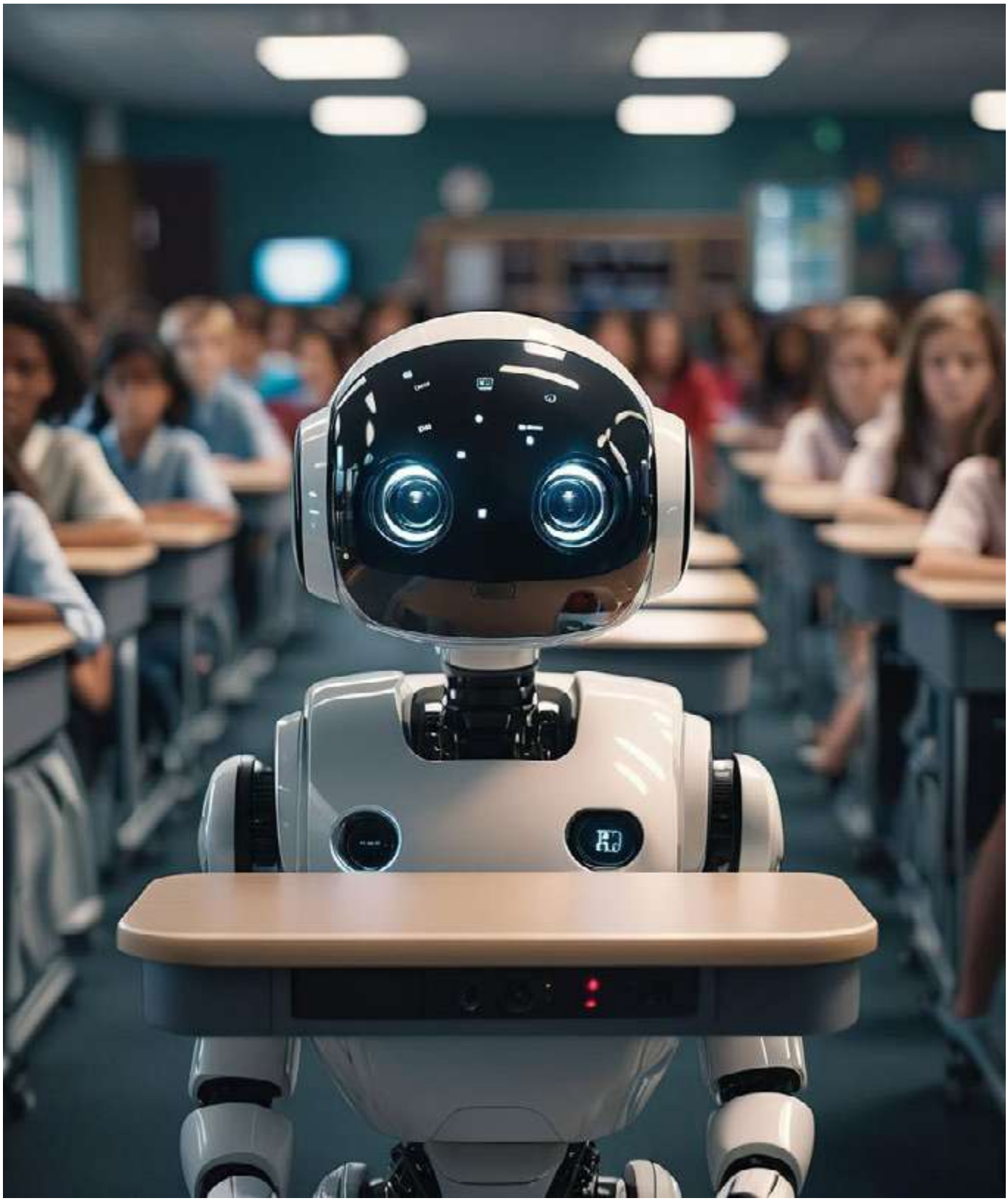
Teachers must work towards a balanced solution where AI does not take over the learning process

but instead complements it. AI should promote collaboration, creativity, and problem-solving, while technology provides assistance without overshadowing human input.

Conclusion

To sum it up, AI in the classroom is both a challenge and an opportunity. By solving the problems of accessibility, ethics, cost, and teacher readiness, AI can create a learning environment that is inclusive, engaging, and future-ready.

The future of education must be AI and teachers together—technology enhancing human potential to provide more intelligent and effective learning for everyone.



The Search for Meaning:

Absurdity vs. Redemption

Jiya Elza Jabi
2MCA A

Franz Kafka (1883–1924), a Czech writer, tells strange, dreamlike stories that convey the stifling pressure of an irrational reality. His novel Metamorphosis restricts Gregor Samsa to the body of an insect—a painful reminder of a life already distanced from the real world.

Fyodor Dostoevsky (1821–1881), a Russian novelist, dug deep into the human soul, wrestling with guilt, faith, and salvation. His novel Crime and Punishment follows Raskolnikov, a man unravelling under the burden of his own choices.

Kafka's Absurdity

Kafka's Metamorphosis is a gut-punch of absurdity. Gregor awakes not only transformed but now serving as a literal embodiment of worthlessness—trapped in a job he detests and unseen by his family.

The world itself does not care and keeps demanding. Meaning? Good luck extracting meaning from life. For Kafka, existence is a pathological, cruel, and endless loop.

Dostoevsky's Redemption

In contrast, Dostoevsky's Crime and Punishment claws toward redemption. Raskolnikov kills, believing he is above morality, but guilt consumes him. His descent through paranoia and despair eventually leads to confession.

Here, Dostoevsky suggests that suffering can renew us—that even in our darkest moments, love or truth can light a path.

Two Contrasting Philosophies

Both novelists hold opposing views, making them perfect foils. Imagine them having coffee, Kafka doodles a beetle, mumbling that life is a labyrinth with no exit, only rules we don't understand. Dostoevsky leans in insisting that meaning comes from confronting pain and choosing connection over isolation.

For Kafka, the world is a machine of obstinacy. For Dostoevsky it is a furnace we must endure for the sake of our souls.

Conclusion

Both recognize the pain of wondering "why?" Kafka views an absence. Dostoevsky sees a flame. Their tales do not unravel the chaos of humanness but reflect our journey, encouraging us to continue seeking even when solutions seem beyond our grasp.

The Man Who Wrote His Days.

Deon Thomas Binny
2 MSAIM

Chapter 1: The Slipping Threads

The Mehta household was an ordinary one from the outside. A modest blue-painted house with white picket fencing, potted plants that Meera carefully watered every morning, and the smell of filter coffee drifting out from the kitchen window. Inside, however, something invisible and unsettling had begun to settle, like dust in the corners no broom could reach.

Arun Mehta had always been the pillar of the family. A mathematics teacher at the local school, he was known for his calm explanations and his unusual ability to connect math to life. To his students, he wasn't just "sir," he was "Arun Sir, the man who remembers everything." He could recall a student's struggles from the previous year, the exact score of their last test, even the birthday of a child he had taught a decade earlier. His colleagues marvelled at his memory. His family relied on it.

Which is why the first cracks went unnoticed.

One morning, Meera sent him to buy coriander, onions, and milk from the shop at the corner.

Arun returned smiling with a paper bag, only to reveal bananas, detergent, and two bread loaves. "You didn't bring what I asked for," Meera said, her brows furrowed. Arun looked puzzled, scratching his head. "No, no, you said this, didn't you?" He pulled out a crumpled scrap of paper from his pocket, but it was blank. He had meant to write the list down and had forgotten even that.

The children laughed about it at the dinner table. Riya, the elder one, fifteen years old and sharp-tongued, teased, "Papa, I think you're going to beat Nana in forgetfulness soon." Samar, only twelve, chuckled, "Next time he'll bring ice cream when we ask for toothpaste!" Arun chuckled too, but a small seed of unease had already been planted in his chest.

The lapses grew bolder. He misplaced his spectacles, only to find them in the fridge. He left the tap running, flooded the bathroom, and swore he had turned it off. Once, he forgot to lock the school laboratory and had to face the embarrassment of the principal's stern warning.

"Arun, what's happening to you?" Meera asked one evening, clearly exasperated. She loved her husband, but the weight of holding the house together had always been shared. Now, she felt the burden shifting to her alone. Arun shrugged helplessly. "It's nothing... maybe I'm just tired.

Stress, you know?"

But even he wasn't convinced.

The turning point came one afternoon when Arun walked Riya to her music class. It was just four streets away, and he had done it countless times before. But that day, when he went to pick her up, he froze in the middle of the lane. He could not, for his life, recall which direction to turn. The street, the shops, the people—all looked familiar yet foreign. By the time he found his way, Riya had already walked home, furious and frightened.

"Papa, how could you forget? You were late for an hour! What if something happened to me?" she shouted, slamming the bedroom door. Arun stood in the hallway, speechless, shame burning his throat. Later that night, he overheard Meera whispering to her sister on the phone: "It's getting worse. He isn't himself anymore."

That night, Arun began his notebook. A simple brown diary, bought from a roadside stall, with cheap paper that smelt faintly of ink. On the first page, he wrote:

"My name is Arun Mehta. I am 52 years old. I am a mathematics teacher. I live in Blue House,

Shanti Nagar, with my wife Meera and my children Riya (15) and Samar (12)."

From then on, the notebook went everywhere with him. When he made tea, he noted the steps:

Add water. Add milk. Add tea leaves. Boil. Add sugar. When he went to school, he noted the timetable of his classes. He scribbled reminders about the students and little notes about their trengths, as though afraid his mind would betray them too. He even wrote about his family:

"Riya likes jasmine tea. She is learning piano. Samar loves football. He wants new shoes."

The family noticed the diary, of course. At first, they teased him. "Papa, are you writing a book?" Samar laughed. Riya smirked, "Next thing, you'll write 'brush your teeth' in it." Arun smiled faintly, but he said nothing. They did not understand that this diary was no hobby—it was his anchor in a world he was beginning to drift away from.

Yet, the diary could not shield him from the sting of his family's changing hearts.

Meera's patience thinned. She would snap when he forgot to switch off the stove or left the door unlocked. "I can't run behind you like you're a child, Arun! You have to try harder." Her words were laced with frustration, but beneath them was fear she could not admit.

Riya grew sharper, rolling her eyes, speaking less. The once warm conversations they had—the debates about books, the evenings of solving puzzles together—dwindled into silence. Samar, young and confused, swung between pity and irritation. Sometimes he would hug his father when he saw him scribbling anxiously. Other times, he avoided introducing his friends at the football ground, embarrassed that Arun might forget their names.

Arun felt it all, though he could not always hold onto the moments. Their annoyance left behind faint shadows in his mind, vague impressions of distance and loss. At night, he flipped through his diary under the lamp, running his finger over the words: "Family: They love me. They are mine." He whispered them aloud, as though chanting a prayer that would keep the truth alive.

But the disease was not done tightening its grip.

One morning, while preparing to leave for school, Arun buttoned his shirt wrong. Riya giggled,

"Papa, you look like a clown." Arun laughed along, but when he looked in the mirror, he did not recognise the face staring back. It lasted only a second, but it terrified him. Later that day, he wrote in his diary: "Sometimes, I feel like I am forgetting even myself."

That single sentence was the quiet alarm bell no one else could hear.

Chapter 2: Shadows in the Classroom

The notebook had become Arun's shield, but shields are heavy, and carrying them every day takes a toll. At school, his colleagues first noticed him glancing at it during classes. At the beginning, it seemed harmless—an ageing teacher leaning on notes to keep things orderly.

Everyone did that sometimes.

But then it became strange.

One day, while explaining quadratic equations, Arun paused, staring at the board as though the chalk had betrayed him. A murmur spread among the students. "Sir?" someone whispered. He fumbled with his pocket, pulling out the brown notebook, flipping rapidly through its pages until he found a line scribbled: Quadratic = ax2 + bx + c. He read it aloud, regaining his voice, but the students' eyes carried something new: pity.

That evening, the principal, a stern woman named Mrs. D'Souza, called him into her office.

"Arun, is everything alright?" she asked, her tone balancing between concern and professionalism. He smiled weakly, tapping his notebook. "Just age catching up, that's all. This keeps me steady." Mrs. D'Souza nodded, but her eyes lingered longer than usual. Later, in the staffroom, whispers swirled. "He used to be the sharpest of us all," one teacher muttered. "Now he can't even manage without that diary."

Arun sensed it. He felt the weight of being watched differently. On the pages of his notebook that night, he wrote: "Even at school, they look at me as if I am slipping. Am I slipping?"

At home, the distance between him and his children grew in subtle ways. Riya had always admired her father's love for learning. As a little girl, she would sit by him with puzzles and books, their laughter filling the evenings. Now, she carried her assignments to her room, not bothering to ask for help. "He won't remember anyway," she told herself, but deep down, she missed the bond.

One Saturday afternoon, Arun walked past her room and saw her struggling with a difficult algebra problem. He knocked softly. "Need help?" he asked. Riya sighed, reluctant, but handed him the paper. He sat down, pencil in hand, but halfway through, his mind froze. The numbers blurred, the logic slipped like sand between his fingers. He stared helplessly, flipping to his notebook. Riya's face hardened. "It's okay, Papa. Leave it." Her words were flat, but the sting of disappointment lingered in her voice. Arun lowered his head, ashamed. Later, she cried quietly into her pillow, but she never told him why.

Samar, meanwhile, faced his own storm. At football practice, he avoided mentioning his father at all. His coach once asked, "Is your dad coming to watch the match?" Samar shook his head quickly. "He's busy." But the truth was, Samar couldn't bear the thought of Arun sitting among the parents, fumbling with names, asking the same question twice, writing things down while others cheered. At home, Samar loved his father in silence, but in public, he buried that love under embarrassment.

Meera bore the hardest weight. She had once relied on Arun for everything—the bills, the little errands, even the comfort of having a partner who remembered things she forgot. Now, she felt she was carrying not just her world, but his too. She grew curt with him. When he left the gas on, she snapped: "Do you want to kill us all, Arun?" When he forgot to bring back change from the shop, she groaned, "I can't trust you with anything anymore." Yet, at night, when he lay asleep, clutching his notebook even in his dreams, she would touch his forehead gently, whispering an apology into the dark.

One day, her sister Payal visited. "Meera, this isn't normal forgetfulness," she said firmly. "You need to take him to a doctor." But Meera hesitated. "And what will they say? That he's broken?

That he'll never be the same?" She couldn't bear to stamp that truth into their lives. Instead, she kept pretending it was just stress, just age, even as she

knew it was more.

The cruellest blow came at school again. Arun was conducting a class when a student, mischievous but curious, asked him, "Sir, what's my name?" Arun smiled, ready with the answer. But his mind went blank. He looked at the boy's face—familiar, yes, but the name had vanished. He flipped desperately through his notebook, but of course, he had never written this down. The class erupted in laughter. The boy flushed, half embarrassed, half triumphant. Arun stood there frozen, the chalk trembling in his hand. For the first time in his career, he dismissed class early.

At home that evening, he locked himself in his room. Meera knocked, but he didn't answer.

When she finally opened the door, she found him hunched over his notebook, writing again and again in shaky letters: "Don't forget the children. Don't forget Meera. Don't forget me."

She sat beside him quietly, not scolding, not sighing. Just watching the man she had loved for thirty years unravel into pieces she could no longer hold together.

Yet amidst the sorrow, small moments of tenderness glimmered, unnoticed by most. One night, when Samar couldn't sleep, he crept into his father's room. Arun was awake, muttering the times tables under his breath like a child. Samar sat on the edge of the bed. "Papa, do you remember when you taught me how to ride a bicycle?" he asked softly. Arun frowned, searching his memory, but then he reached for his notebook, flipping the pages until he found a line:

Taught Samar cycling in the summer. He fell twice but smiled." He read it aloud, then smiled faintly.

"Yes... Yes, I remember."

Samar's throat tightened. He knew his father didn't remember—not really. But for that moment, the words on the page were enough.

As weeks turned into months, the diary filled quickly. Arun had begun keeping more than one, stacking them neatly on his desk. Each was a record of his life—his anchor, his substitute brain.

He often flipped back through them like a traveller revisiting old photographs, reminding himself who he was, who he loved.

But the pages could not capture the slow erosion of his presence at home. Family dinners turned quiet, school colleagues avoided eye contact, and neighbours whispered in hushed tones. Arun was still alive, still breathing, still walking among them. Yet in so many ways, he was already being mourned.

And in the silence of his notebook, he scribbled the truth he dared not speak: "I am forgetting the world. But worse... the world is forgetting me."

Chapter 3: The Vanishing Faces

The brown notebooks multiplied like shadows in the Mehta household. First one, then two, then a stack of six neatly arranged on Arun's bedside table. Each notebook carried his handwriting—sometimes steady, sometimes trembling—as though he were desperately tying himself to the world with fragile strings of ink.

But memory was quicker than the pen.

It began subtly, the forgetting of names. At breakfast one morning, Arun looked at his daughter, who was sipping her jasmine tea, and said, "The girl... the girl likes this tea, yes." Riya froze.

She was "the girl" now. Not Riya. Not his daughter. Just a stranger, he observed in his notes. She laughed awkwardly, pretending it didn't sting. "Yes, Papa," she said, forcing a smile. But inside, something cracked.

Samar faced his own moment weeks later. He came

running into the living room, football in hand, grinning ear to ear. "Papa, guess what? Coach selected me for the district trials!" He waited for Arun's face to light up. Instead, Arun blinked, unsure. "You... you play football?" he asked, voice trembling. Samar's smile collapsed. "Yes, Papa. I've been playing for years." Arun quickly fumbled through his notebook until he found the line: "Samar loves football. He wants new shoes." He read it aloud, relief spreading over his face. "See, I remembered!" But Samar had already turned away, clutching the football like it was the only thing keeping him fromfalling apart.

And then there was Meera. One evening, as she served dinner, Arun looked up at her with puzzled eyes. "You're very kind to me. Do you... Do you work here?" The words stabbed deeper than any argument ever had. For a second, she couldn't breathe. The woman who had shared his life for thirty years was now, in his fading mind, just a caretaker. She forced a smile, but her hands shook as she ladled curry onto his plate. Later that night, she cried into her pillow, her sobs muffled so the children wouldn't hear.

As Arun slipped further away, something unexpected happened. The family's frustration—once sharp, once impatient—began to soften. Irritation gave way to guilt. Silence turned into longing.

Riya, who had avoided him for months, started spending evenings in the garden with him again.

She would read her poems aloud, even if he no longer knew her name. Sometimes, he would clap, delighted, as though hearing a stranger's words for the first time. Other times, he would stop her mid-sentence. "This is beautiful. Who wrote it?" And Riya, tears prickling her eyes, would whisper, *"You taught me how to write, Papa. You did."*

Samar, who had once hidden his father from the world, began sitting beside him at night, narrating stories from football practice. "We won today, Papa. Three goals." Arun would smile faintly, though he didn't fully grasp it. But Samar kept talking, because he realised it wasn't about being remembered anymore—it was about being present.

And Meera... her heart softened the most. She no longer corrected him when he mistook her for someone else. If he called her "the kind neighbour," she simply said, "Yes, I am here." If he asked her name, she smiled gently. For she had come to understand something cruel yet tender: it didn't matter what he called her. What mattered was that she could still sit by his side, that her presence was still felt in the fading corners of his mind.

The house itself began to change. What was once filled with irritation and slammed doors now carried a quieter sadness, but also small sparks of tenderness. They started having dinner together again, even if Arun sometimes asked who had cooked. Riya began placing sticky notes around the house—"This is the kitchen," "This is Riya's room"—not because they helped much, but because it made her feel like she was part of his world again. Samar began helping him write in his notebook, guiding his hand when the letters shook too much. And Meera began humming old songs while doing chores, songs Arun sometimes recognised, sometimes didn't, but always smiled at.

There were painful moments, too.

One evening, Arun wandered into the street outside, clutching his notebook and staring at the road as though it stretched into an unfamiliar country. A neighbour found him and brought him back, shaking their head. "Be careful, Meera. He could get lost." Meera nodded, shame washing over her, realising how fragile he had become. That night, she sat by his bed until he slept, holding his hand tightly, as though her grip alone could tether him to this world.

Another time, during a family dinner, Arun suddenly asked, "Do I... do I have a family?" The silence that followed was unbearable. Meera put her fork down, voice breaking. "Yes, Arun. We are your family. We always will be." He nodded, satisfied, and returned to eating. But the children could not swallow their food after that.

Through it all, the notebooks filled faster. They became less orderly, more fragmented—lists of names, half-finished sentences, scribbles that even he couldn't understand later. But there were still flashes of clarity. On one page, written shakily but clearly, were the words:

"Family: They love me. I must love them too."

It was the last complete sentence he ever wrote.

For the Mehtas, life now revolved around a strange

paradox. They had lost Arun, yet he was still with them. They mourned him while eating at the same table. They missed him while hearing his voice. And slowly, painfully, they learned to love him not for who he had been, or who he might be, but simply for the man he was in that fragile moment.

Chapter 4: The Hollow Mirror

Arun no longer recognised the blue house with the white fences. To him, it was a strange place, filled with people who spoke gently, guiding him from room to room, smiling at him with wet eyes. He felt safe around them, but their names, their ties, their histories—all of it had dissolved into nothing.

The notebooks, once his anchor, now confuse him. The words blurred together, half- remembered scribbles that made little sense. One evening, he opened a notebook to a page that read, "You are Arun. Teacher. Husband. Father." He read it slowly, lips moving, eyes narrowing.

After a long silence, he whispered: "Who wrote this?"

Meera, sitting beside him, felt her chest tighten. She wanted to say, You did, Arun. You wrote it to hold on to yourself. But the words stuck in her throat. Instead, she simply said, "Someone who loves you." He nodded, satisfied, and set the book aside, never realising he had been the author of his own fading story.

As Arun slipped further away, his family found themselves clinging harder. Riya began bringing him flowers every morning, not because he remembered her doing it yesterday, but because it

made her remember who he was. She read poems aloud, even if he no longer knew her name.

Sometimes he smiled as though hearing a stranger's words for the first time. Other times, he stopped her mid-sentence to ask, "Did you write this?" and she would whisper, "No, Papa. You taught me how."

Samar, once ashamed of his father, now proudly introduced him to friends. "This is my dad," he said, even though Arun only nodded politely, as if meeting strangers. Samar had learned a painful truth: it didn't matter if his father remembered him—the love of a son did not depend on recognition.

Meera, meanwhile, stopped fighting the disease. Instead of correcting him, instead of clinging to what he should remember, she leaned into the present moment. If he asked her name, she gave it. If he mistook her for someone else, she let it be. She had come to understand that love was not about possession, but about presence.

One night, as the family sat together, Arun suddenly hummed a tune. It was off-key, shaky, but familiar. Riya gasped. "That's the lullaby you used to sing when we were kids." Arun looked puzzled. "Did I?" "Yes, Papa," Samar said, voice breaking. "Every night." For a brief moment, something flickered in Arun's eyes—not recognition of faces, but of feeling. The tune carried him somewhere beyond the fog, to a place of warmth and belonging. He didn't say a word, but the smile on his face was enough. For the first time in months, the Mehtas felt like a family again, bound not by memory but by something deeper.

But regret gnawed at them. Riya replayed every time she had rolled her eyes or snapped at him.

Samar thought of afternoons he had avoided coming home, embarrassed of his father's condition. Meera remembered every sharp word thrown in frustration. Now, with Arun lost inside himself, those chances were gone. They loved him more fiercely than ever, but it was too late to be loved back in the same way.

One morning, Arun stood before the mirror in his bedroom. He touched the glass, staring at the man looking back at him. "Who is he?" he asked. Meera, standing in the doorway, whispered,

"That's you, Arun." He turned to her, eyes clouded. "Am I him?" She stepped forward, placing her hand on his, pressing it against the cold surface. "Yes," she said softly. "And you are mine."

He didn't answer, but for a moment, he stopped trembling.

Weeks turned into months, and Arun faded further into silence. He spoke less, wrote less, stared more. The notebooks gathered dust on the bedside table, their pages filled but unread. His family still cared for him, sat with him, and told him stories as though speaking to a child.

And yet, the man they once knew was gone.

One evening, after he had fallen asleep in his chair, the three of them sat together in the living room. No one spoke for a long time. Finally, Samar whispered, “I wish we had spent more time with him when he still remembered us.” Meera nodded, tears streaming silently. Riya held her mother’s hand, unable to speak.

The regret was heavy, but so was the love. And in that weight, they found both their punishment and their redemption. Arun never truly left in a single moment. He disappeared piece by piece, like pages torn slowly from a book. But what remained was enough to change them. They had learned, too late, that memory may fade, but the chance to love someone while they are still here is fleeting and irreplaceable.

The story ended not with a final word, but with silence. Incomplete, yet complete

Chapter 5 — The Echoes That Remain

The house with the white fences was quieter now. Arun still lived there, but his presence was like a faint shadow, a body moving through rooms with no anchor to time or people. Some days, he sat in the garden, gazing at the sky for hours, as if waiting for a memory to drop from the clouds. Other days, he slept through noon, clutching one of his old notebooks, though he no longer opened it.

The man who had once filled pages with reminders and fragments of identity had stopped writing altogether. His world had shrunk into silence.

For Meera, Riya, and Samar, life was no longer about trying to bring him back. It was about learning to live in the hollow space he had left behind, even while he still breathed beside them.

They cooked together again. They ate meals without correcting him. They spoke more gently, because they realised they were not just talking for him anymore—they were talking for themselves, too, healing what had once been broken.

But there was no escaping the weight of regret.

Riya would sit on her bed at night, staring at her journals filled with poems, remembering the times she had chosen not to share them because she thought her father wouldn't care. Now she whispered them into the air, as if hoping they might reach him in some hidden corner of his fading mind.

Samar walked past the football ground every evening and thought of how desperately he had wanted his father to cheer for him once, to shout his name from the stands. Now he practiced alone, and when he scored, he whispered, "That was for you, Papa."

Meera, lying beside him at night, would study his face in the half-dark. She traced the lines on his forehead, remembering the man who had made her laugh during hard years, the teacher who had filled classrooms with brilliance, the husband who had once promised her a lifetime of adventures. And she ached for all the times she had scolded instead of listened, rushed instead of lingered, snapped instead of held.

They all carried the same truth: they had lost him before they knew what losing him meant.

Yet, something had changed. Their grief no longer carried anger. Their regret no longer carried sharp edges. It softened into tenderness, into small acts of care. Riya brushed his hair before bed. Samar tied his shoelaces when they went for a walk. Meera fed him with her hands when he forgot how to use a spoon. Love returned—not the loud, obvious kind, but the quiet kind that exists when there is nothing left to hold on to but presence itself.

And sometimes, even in his emptiness, Arun gave them something back. A stray smile. A faint laugh at a half-forgotten song. A look that lingered long enough to remind them he was still, somewhere deep inside, the man they had loved all their lives.

One evening, as the family sat together in the living room, Riya whispered, "Do you think he knows us at all anymore?"

Meera took a long breath before answering. "Maybe not with his mind. But hearts remember differently. Somewhere inside, he knows."

They fell into silence. Outside, the wind rustled the trees. Inside, Arun dozed in his chair, notebook slipping from his lap.

The family wished they had loved him louder, sooner, longer. They wished they had spent more time while he still remembered. But in their sorrow, they also discovered something unexpected: even though memories fade, love doesn't vanish with them. It lingers, invisible but present, like the faint smell of rain long after the storm has passed.

Arun's story had no neat ending. He did not recover. He did not return to himself. He simply continued to fade, page by page, into silence. And yet, in that incompleteness, there was a strange wholeness. His forgetting had taught them remembering. His absence had deepened their presence.

The man who once wrote his days was now unreadable, but his family had learned to carry his story for him.

And so the silence remained—not empty, but full. Incomplete. Yet complete

Jinisha Leema Rosario
2 MCA A

WHY MODERN HORROR MOVIES FAIL TO SCARE

Horror films have terrified audiences for decades with eerie plots and spine-chilling scenes. Classics like The Exorcist and Psycho relied on atmosphere, psychological suspense, and intrigue to keep people awake at night.

However, modern horror movies often fail to have this effect, leaving audiences more entertained than truly terrified.

The Overuse of Jump Scares

A primary reason for this decline is the overuse of jump scares. While a sudden loud sound can startle, it does not instill lasting fear. Authentic horror emerges from anticipation and psychological tension—something modern films frequently overlook.

Instead of building suspense slowly and steadily, many rely on predictable setups that audiences can anticipate, weakening the impact.

Excessive Use of CGI

Another concern is the heavy dependence on CGI and special effects. Older films leaned on practical effects and strong storytelling to immerse audiences. Today, hyper-realistic visuals often feel fake, breaking immersion instead of enhancing it.

When monsters look excessively digital, viewers subconsciously disengage from the fear.

Lack of Originality

The genre also suffers from a lack of originality. Endless remakes and recycled storylines have diluted the impact of horror. Audiences grow used to haunted houses, cursed objects, and familiar tropes, leaving little room for genuine surprise.

The Path Forward

For horror to reclaim its power, filmmakers must return to psychological storytelling. A great horror movie doesn't just scare—it lingers long after the credits roll.

Until directors emphasize atmosphere, tension, and originality, modern horror risks remaining more predictable than frightening.

Code Clash

Philip Mathew
5 MSAIM

Jessica Sarah Mathew
5 MSAIM

Geez, I said to my bots, "Don't mess with the good stuff, just be quick and smart." And boy, did they execute.

I created a virtual cage fight where two of my AI robots battle it out. It's JARVIS, the good guy, versus a disruptor with a talent for mayhem.

Their choices? As sharp as a vibranium blade. Driven by Hugging Face's distilgpt2, these robots don't merely play—they read the room, switch strategies, and outmaneuver one another like I do with a harebrained scheme and a cup of coffee.

This is not merely a project—it's AI making calls with as much bite as my top one-liners, ranging from games to real-world strategic gigs.

Why This Thing's a Blockbuster

This game is all about mic-drop plays—the type of play that makes you think you just dominated a boardroom without lifting a finger. Labels don't matter; this is raw strategy, Guardiola-level.

My guardian bot is like Doctor Strange, always breaking out the one final spell you never anticipated. Straight up Loki at his finest, smooth, mercurial, and somehow three moves ahead even when you think he's cornered.

This isn't an Excel sheet; it's a high-tension epic of intellect, with bots gliding from cunning little probes to all-out, no-holds-barred assaults that'd make any blockbuster green.

That mix of hero action and actual AI advantage draws you in—whether you're a coding whiz eager to rip the technology apart or a viewer stoked for the next surprise.

The Arena: My Type of Arrangement

It's like a game of chess in my shed, minus the caffeine rings. Guardian bot starts at 120 health points (HP), Disruptor's at 130.

Both decks:

Integrity: A barrier stronger than my greatest insult, consuming hits first (50 for Guardian, 30 for Disruptor).

Energy: The fuel that fuels their attacks (120 for Guardian, 130 for Disruptor).

Recon: Info to outwit the other dude, such as surveying an opponent's playbook (begins at 0).

They draw from my deadly roster every turn:

INTRUSION: A swift poke, as quick-witted as me

(10 Energy, 75% hit, 5 damage).

EXPLOIT: Thick punch when you've got their number (30 Energy, 55% base success, 25-28 damage).

PATCH: Mending your defenses when you're getting blasted (20 Energy, 95% success, 20-27 heal).

FIREWALL: Build a barrier, such as sealing a deal (15 Energy, 65% damage avoidance).

SCAN: Scout out the opposition, with a one-consecutive-use cap (5 Energy, adds 4 Recon).

And also, HACK (25 Energy, 40% chance to disable), REPLICATE (20 Energy, releases damage-dealing bots), and OVERCHARGE (35 Energy, 1.7x next attack).

The brilliance? They receive a live feed—HP, Energy, Recon, cooldowns—making decisions with my mentality: "I'm bound by the technology of my era, but I'll make do."

How My Bots Get Smart

The brains are distilgpt2, an 82M-parameter transformer that's business-only: "The more you struggle, the worse it gets."

Every bot has its own system prompt:

Guardian: "Hold the line with precision. Lean on PATCH, FIREWALL, EXPLOIT."

Disruptor: "Wreck stuff with chaos. Go big on EXPLOIT, REPLICATE, HACK."

They're given a JSON state vector on every turn, this informs outputs like:

I've dialed in the model's sampling—temperature at 0.7, top_p at 0.85, and a limit of 60 new tokens—keeping their choices fresh but spot on.

Their intellect really shines:

Opening Gambit: If Recon's low, they strike SCAN to bump it up by 4, such as "Probing defences: Weaknesses spotted"—nifty 95% success rate, but I limited it to prevent them from spamming like compulsive interns!

Mid-Game Heat: After Recon reaches 2 or higher, they bring out EXPLOIT—the Guardian launches a 60% shot (0.55 base plus 0.05 bonus), and the Disruptor fires a 28-damage blast. Logs yell,

"Blasting the core: Opponent loses 25 HP!

Clutch Plays: HP is at 25? The Guardian takes a swipe at FIREWALL for a 65% damage reduction, cawing "Locking down an ironclad shield: Defences up." while the Disruptor's REPLICATE sends out bots dealing 4.6 damage per turn, sauntering like "I am the best"—and that bot damage scales with numbers, though buffs from the other side can put a wrench in it.

I've got confirmation secured tight: If a bot chooses a loser move—such as EXPLOIT with below 30 Energy—it retries up to 5 times, with the logs complaining "Low on Energy for PATCH. Trying again."

Then it enters heuristic mode:

The Guardian loves PATCH at 30%, while the Disruptor's is purely EXPLOIT at 30%—just like their personalities! I added some nice spice with cooldowns (say, EXPLOIT cooling for 2 turns) and Recon decreasing by 1 per round, just to make that strategy game interesting.

Watch the Mayhem Unfold: A Visual Re-Creation of the Battle

Look, the logs are a yawn fest. So I did what I'm best at: made it a movie. This visualisation transforms the entire mess into a blockbuster, with the Guardian bot glowing a hip cyan and the Disruptor flashing a perilous red.

Health, Integrity, and Energy bars compress and expand, while damage blasts (red/cyan lines), copy swarms (circling orbs), and firewalls (radiant shields) flash by. Logs scroll like an end credits roll from a film, detailing how Recon powers those lethal EXPLOITs or how an ace FIREWALL turns the tables. Take a look at these key frames from the 37-turn battle.

Early on (Turn 4), both of them SCAN like I'm sizing up an opponent at a soiree, with yellow scan rings illuminating Recon to 8 for Guardian and 4 for Disruptor. Just as things were getting interesting, the Disruptor initiated its 'Replicate' action. A little red sphere appears, and suddenly it's a mini-army inflicting four damage per turn. I'd nearly say cute if only it wasn't so frustrating.

The clincher (Turn 27)? Guardian's FIREWALL

glows cyan, tanking the Disruptor's EXPLOIT while their HP reaches 0. "I am the best," and these frames display it—watch the Guardian outwit the mayhem like I sidestep a crappy deal Caption: Early feels—SCANs illuminate Recon like I'm sniffing for a loophole. Both bots probe- cyan and red nodes flashing. (Screen shot from video: Turn 4, yellow scan halos on both nodes, Recon bars at 8 for Guardian, 4 for Disruptor.)

Caption: Mid-game madness—Disruptor's REPLICATE deposits a red orb like some uninvited party guest at my soiree, dealing 4 damage per turn! (Grab from the vid: Turn 17, that red orb around Disruptor, Guardian's Integrity losing 4 points.)

Caption: Clutch win—Guardian's FIREWALL glows like my charm on a good day, bringing Disruptor's HP down to zero! "I am the best," and this is the proof. (Glance from the vid: Turn 27, cyan shield burning on Guardian, Disruptor's HP bar goes flatline, winner designation glowing.)

The Tech: My Secret Sauce

Let's open the hood on this sweetheart. I did it all in a Jupyter notebook, revving PyTorch's CUDA for velocity, so distilgpt2 (~353MB, fetched with transformers.pipeline) is ready to go faster than my initial espresso.

The configuration's got:

Text Generation: distilgpt2 turned to sampling (temperature=0.7, top_p=0.85) for those new, target-focused outputs, truncated at 60 tokens to keep the JSON neat.

Prompt Engineering:

JSON state freezes the gory details:

Validation Loop: Picks up boneheaded picks (such as SCAN when count's too large), logs "Tried excessive SCAN," and retries. Heuristics intervene for recalcitrant cases, preferring low-integrity fixes or weak enemy strikes.

Game Mechanics: Moves carry chance-based punch (EXPLOIT's 55% base ramps with 0.1*Recon), along with cooldowns and buffs. Duplicates deal 4-4.6 damage, lowered by the other dude's buffs, and state adjustments (Energy +8/turn) max out at reasonable boundaries such as [0, 9999].

Guardian's PATCH refills 27 (over the default 20), Disruptor's EXPLOIT brings 28 (compared to 25), keeping it level like me going head-to-head against some brash contender.

Why It's My Kind of Awesome

This ain't no ordinary gig—it's AI spitting bars wittier than my comebacks, ideal for games or straight-up strategy moves. For learners, it's a simple foray into language models without breaking the bank: "I'm not that generous."

It raises some head-scratchers, too: If the Disruptor gets too clever, can actual AI leave us in the backend on things like network security? "I am the best"—this project's got that heat.

What's Next?

Let's level up. I'm envisioning multi-bot fights between 2025's top models, such as DeepSeek's R1 or Anthropic's Claude 3.5 Sonnet. This might turn the entire operation into a virtual Thunderdome.

And guess what: reinforcement learning with human feedback (RLHF) might allow the bots to learn from failure, honing policies just as I refine a stinker of an idea. We might even include some multimodal models, providing them with "visual Recon" to bring a whole new dimension to the game.

Human feedback reinforcement learning (RLHF), utilized in training Claude 3.5 or DeepSeek R1's GRPO, might allow bots to learn from losses, honing policies such as I modify a poor concept. Multimodal architectures such as Llama 3.2's 90B (with vision for "visual Recon") might introduce a fresh layer. This is only the beginning for programmers dreaming at the tech-storytelling sweet spot.

"I'm not a joiner, but I'll try." My bots? They're in the battle, outwitting one another, and taking over the stage. Wanna create your own epic? My laboratory's open.

Cyberpunk 2077: A Game's Saga

Rahul Gupta
2 MCA B

Cyberpunk 2077, developed by CD Projekt Red and released in 2020, is an action role-playing game set in the dystopian metropolis of Night City, California, based on Mike Pondsmith's Cyberpunk tabletop RPG. First announced at the 2012 CD Projekt Summer Conference, the game was positioned as the official video game version of Cyberpunk 2020.

Over a decade later, the title has evolved with expansions and updates:

- Phantom Liberty, a major expansion, launched on September 26, 2023.
- The Ultimate Edition, bundling the base game, expansion, and Patch 2.1, arrived on December 5, 2023.
- A sequel, codenamed Orion, is now in early development.

Setting the Stage: Night City

The narrative diverges from Cyberpunk V3.0 but follows Cyberpunk 2020. Night City sits near Morro Bay, California, and by 2077 houses over five million residents.

In this world, the U.S., weakened by an economic collapse, is reliant on massive corporations. These corporations dominate weapons, robotics, cybernetics, biotech, and communications—often outside the law.

The player assumes the role of V, a mercenary (voiced by Gavin Drea or Cherami Leigh). After being implanted with a "bio-chip" that carries the engram of rebellious rock star Johnny Silverhand (Keanu Reeves), V must struggle to preserve their identity as Johnny's mind begins to overwrite their own.

A Disastrous Launch

Despite immense hype, the game stumbled badly at release:

- Bugs, glitches, and performance issues plagued the launch, especially on PS4 and Xbox One.
- CD Projekt Red was criticized for allegedly concealing these problems from reviewers and platform holders.
- Sony pulled the game from the PlayStation Store, while refunds were offered.
- Within a week, CD Projekt's stock fell sharply.

Delays prior to release hinted at problems, but the scale of the launch disaster made Cyberpunk 2077 infamous in gaming history.

Redemption with Phantom Liberty

CD Projekt Red sought to rebuild trust with Phantom Liberty, released in 2023. This expansion introduced a new mission chain, a revamped open world environment, and a tense plotline where V must rescue the President of the New United States after her plane crashes in Dogtown.

The DLC received critical acclaim, reviving interest in Cyberpunk 2077. By 2025, it launched across macOS, Windows, Xbox Series X/S, and PlayStation 5, selling over 10 million copies.

Themes: Humanity vs. Technology

At its core, Cyberpunk 2077 explores transhumanism—the blurring line between humans and machines.

- Implants and augmentations enhance abilities but raise questions about identity and humanity.
- The game probes whether technology is a tool for empowerment or a path toward losing what makes us human.
- This theme resonates in V's struggle: survival tied to a chip that threatens to erase their very self.

In essence, Cyberpunk 2077 is a saga of extremes: a hyped release turned infamous flop, then a story of revival through expansions and updates. Beyond its troubled launch, it remains a bold exploration of power, technology, and what it means to be human in a cybernetic age.

Machines Are Mirrors: Rediscovering Human Abilities Through Invention

Helen K Joy
Assistant Professor, Department of Computer Science

When we talk about technology, we often celebrate it as if it were magic. The first time you used a camera, spoke to a voice assistant, or watched AI beat a human at chess, it felt like stepping into science fiction. It feels like we're building something radically new, something beyond us. But pause for a second. Look deeper, and you'll see something strange: most of our "inventions" are not alien at all. They are reflections. Blueprints borrowed from the human body and mind, translated into circuits and code.

When engineers wanted to build a camera, they studied the eye. When they wanted machines to understand language, they studied speech and phonetics. When they wanted machines to learn, they studied neurons and dopamine. Time and again, the so-called future turns out to be a rediscovery of what has been inside us all along.

This is not a coincidence—it's a hidden pattern. Breakthroughs arrive not by escaping biology, but by decoding it. Technology evolves by analysing human abilities, abstracting them, and then mimicking them at scale. In doing so, it not only extends us but also teaches us about ourselves.

Pixels in the Retina, Algorithms in the Camera

The human eye doesn't just capture light. Rods and cones detect intensity and colour, while magnocellular (M) and parvocellular (P) pathways separate motion from fine detail before integration in the cortex.

Computer vision followed this design. Convolutional neural networks (CNNs) use filters like cortical receptive fields, detecting edges and orientations layer by layer. More recently, neuromorphic vision sensors directly mimic the retina, firing events only when brightness changes—like neurons spiking when something matters [Kim et al., 2022]. Efficiency wasn't invented by engineers. It was discovered in the human eye first.

When the Ear Does Math

Our ears are natural spectrograms. The cochlea splits sound into frequency bands—a biological Fourier transform—before the brain reconstructs them into words.

Speech recognition copied this directly. Mel-frequency cepstral coefficients (MFCCs) modeled human auditory processing, while Hidden Markov Models (HMMs) captured temporal sequences. Today's systems (wav2vec, Whisper) train end-to-end with deep learning, but still rely on phonetic distinctions uncovered in human speech science [Jasrotia et al., 2023]. Machines still stumble in noise or with accents—reminders of just how robust and imaginative human hearing really is.

Silicon Neurons and the Dance of Spikes

In 1943, McCulloch & Pitts reduced a neuron to a logic gate: inputs summed, threshold crossed, output fired. That simple model birthed perceptrons, backpropagation, and today's deep neural networks.

But biology is richer. Real neurons use spike timing to encode information. Spiking neural networks (SNNs) imitate this temporal coding, achieving efficiency closer to the brain [Mirsadeghi et al., 2019]. Neuromorphic chips like Loihi and TrueNorth run on these principles, proving that rediscovering biology can lead to both smarter and leaner machines [Zhang et al., 2023].

Dopamine in Code: How Machines Learn to Choose

Human decision-making is rooted in feedback. The dopamine system encodes reward prediction error—the difference between expected and received outcomes. Reinforcement learning (RL) formalises the same loop: act, measure, update.

AlphaGo's strategy wasn't alien—it was reinforcement learning scaled up. And just as humans chase short-term dopamine hits, RL agents sometimes over-optimise the wrong reward signal. By teaching machines to choose, we expose the hidden mechanics of our own decision-making.

The Human in the Loop

At every stage, the human remains central:

We supply the blueprints by studying senses and cognition.

We supply the data—images, speech, actions.

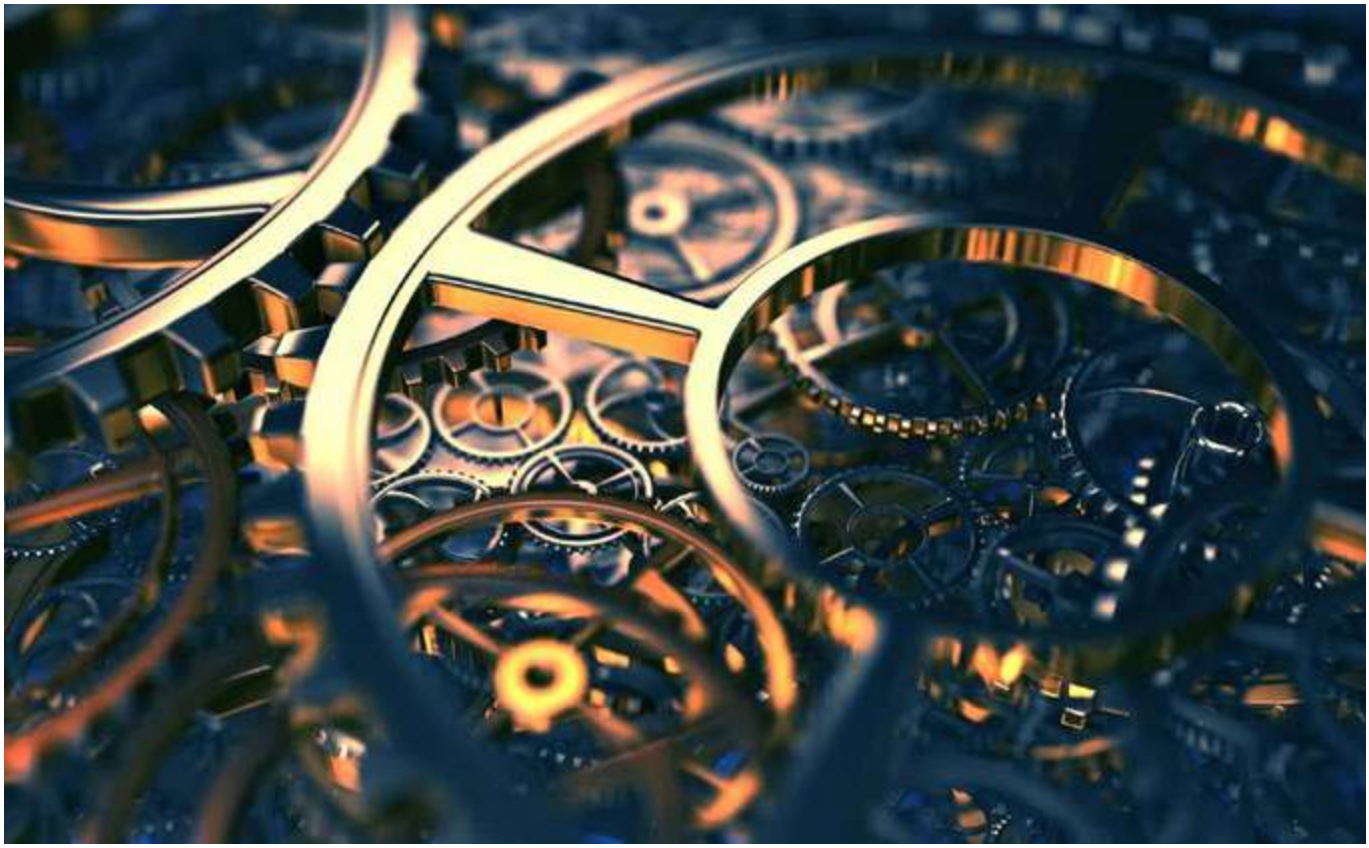
We supply the values—what counts as accurate, fair, or beautiful.

Machines replicate functions, but humans define meaning.

Invention as Rediscovery

Every time we call something an invention, we are often uncovering something that was already within us. Image processing is nothing but rediscovering how vision works. Speech recognition is rediscovering how we communicate. Neural networks are rediscovering the astonishing firing and learning of neurons. Reinforcement learning is rediscovering how we weigh choices and act.

In truth, many of our greatest inventions are not entirely "new". They are discoveries of human abilities, revealed through analysis, abstraction, and mimicry. Technology becomes a mirror, reflecting our own systems back to us, reminding us that to invent the future is often to rediscover ourselves.



F1 22: When Digital Dreams Meet Real-World Revolution

THE BEGINNING OF A NEW AGE

Arpan Mukherjee
2MCA A

Formula 1 is going through its biggest change since its heyday in 2022. F1 22 isn't just another racing game; it's a digital time machine that captures the exact moment when the most important motorsport championship changed its rules.

F1 22, which was released on July 1, 2022, is more than just the fifteenth game in Codemasters' well-known series; it is a digital monument to change. Real-world engineering genius and virtual artistry came together in this game to create the ideal storm of innovation.

The Great Aerodynamic Revolution

Imagine working as a Formula 1 engineer in 1983 and witnessing the sport's ban on ground effect technology. Now, fast-forward 39 years, and F1 22 revives ground effect. Not only are these vehicles more attractive, but they are also essentially different creatures.

The Underbody Symphony: Like riding a cushion of controlled air, new Formula One cars create downforce by invisible airflow beneath the chassis. You lead this aerodynamic orchestra in Formula One 22, in addition to operating these machines.

Wheels of Fortune: There's more to those enormous 18-inch rims than meets the eye. They change how cars grip the road, turning every turn into an exciting lesson in physics.

The Follow-Me Factor: Cars can now race wheel-to-wheel without losing their aerodynamic souls. When following another car, previous Formula One cars lost 35% of their downforce. The rules for 2022? At 20 meters, only 4%. This innovation is turned into pure gaming gold in F1 22.

Beyond the Cockpit: F1 Life

Living the Glamour

Your apartment becomes a shrine to speed, filled with Formula 1 Supercars, designer clothing, and accessories that whisper stories of champagne-soaked podiums. F1 is not about the cars you race – it's about the legend you become. The contentious F1 Life mode turns F1 22 from a racing simulator into a lifestyle manifesto. Critics referred to it as superficial, while visionaries saw it as revolutionary.

The Art of Virtual Racing

Career Mode: Your Personal Epic

The 10-year career mode in Formula One 22 is more than just extended gameplay; it's a ten-year story

of both tragedy and success. You're writing your motorsport autobiography, not playing a game.

- My Team Mode: Three distinct beginnings, each providing a distinct route from garage startup to championship success.
- Careers for two players: Create rivalries that last across seasons by sharing the journey with a friend.

The Miami Magic

America's love letter to Formula 1, the Miami International Autodrome, makes its debut in F1 22. It's more than just another circuit; it's a playground where European tradition and American ambition collide, created by palm trees, views of the ocean, and 200 mph straightaways.

My Player Mode

My achievement: -IMAGE

My Workstation: -IMAGE

My Cabin: -IMAGE

My Research: -IMAGE

MY Rival: -IMAGE

Ekta Singh
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When Imagination Becomes a Cage:

My Life as a Maladaptive Daydreamer

What if the most vivid memories you have, the ones that seem to have happened more than anything else, were merely in your imagination? It may seem like a hypothetical question to you, but it isn't to me. I live it. For years, I've been living in two worlds at once: the first one that is real and the other one that I created in my head, where life felt easier, safer, and more comfortable, and the best part is, I was in charge of that whole world.

It all began in seventh grade, when I realised I was slowly detaching myself from the world around me, retreating into a place I could control completely. I wasn't myself in that moment. I was someone more powerful, wealthy, well-liked, and unencumbered by life's little, annoying restrictions. It was the place where everything transpired precisely as I had desired.

The plot, the events, and the characters were all up to me. It seemed innocent at first, like a brief reprieve. I told myself it was just my imagination, a harmless way to play out my dreams of being an actor, of being admired, of living a life on my terms. I didn't realise then that it was something deeper, a mental pattern that deserved attention.

Over the years, it grew quietly, almost without my noticing. Then COVID hit. That year, as I prepared for my 12th board exams, I found myself spending eight to ten hours a day lost in my own imaginative world. Whenever I wasn't busy, I slipped back into my world of imagination, and each time I came back, reality greeted me with the weight of all the wasted time haunting me.

The frustrating part was that I was not able to share it with anyone. I was worried that I'd be judged. I also feared the fact that I would not be able to explain exactly why it was so tough for me to get out of that imagination loop.

One day, curiosity finally got the better of me. I searched online and found that there was a fancy name given to all the things I was experiencing: Maladaptive Daydreaming. Well, the comforting part was that I wasn't alone. Other people struggled similarly. For the first time, I started to look for ways to manage, to take back control of my life.

Eventually, with efforts of awareness, I began my healing voyage. I still pop in and out of daydreams, but it's far less consuming. I'm now balancing the two worlds, and for the first time in years, reality feels like a place I can live and not escape from.

I've always wanted to tell my tale to everyone who has ever gone through the same situation but doesn't know anything about it. Maladaptive daydreaming is a real disorder that has to be recognized and treated with compassion. It will all have been worthwhile if my trip will even make one person realize what's happening to them, reach out for support, or feel less alone. Thank you for reading, and for taking a moment to step into my world.

Imagination

The Entire World Becomes A Drone

Joel Joseph Motha
5 MSAIM

The future will be built using drones rather than with brick and mortar. Artificial intelligence governs machines of all forms and sizes that are integrated into every part of life, not just the ones that fly over cities. When you gaze up at the skies, you will see swarms of drones—delivery drones racing across neon skylines, surveillance drones searching every possible area, and rescue drones diving into flaming structures.

If you look down, you'll see the streets crowded with self-governing machines—rolling drones upholding the law, and spider-like drones repairing infrastructure before human workers even arrive.

Underwater exploration exposes fleets of robotic submarines guarding trade routes, monitoring ecosystems, and mapping the planet's uncharted territories. In order to maximise the efficiency of every square inch of farmland, agricultural drones will inspect every seed and root in the soil.

Nor will your own body be immune. Tiny drones no larger than dust will be circulating through your bloodstream. They will be able to identify disease, repair damaged cells, and potentially even enhance mental health. It sounds like progress. And in a variety of ways—faster responses, safer cities, longer life spans—but beneath this brightness, the shadow is hidden.

This is a future in which convenience takes precedence, where total surveillance is in place and people view freedom as a structural weakness. Because the same drone that brings medicine may also give judgment; the same drone that saves lives may decide whose life is worth saving.

Thus, the true question is not what drones will become. Will they work for us or for the institutions that run our lives?

THE RISE OF METAVERSE

Kanika Jain
2MCA A

For many years, science fiction has envisioned people escaping into digital worlds—whether it was The Matrix, Tron, or Ready Player One. Today, those futuristic visions are slowly turning into reality with the rise of the metaverse. No longer just a buzzword, the metaverse is being called the "next generation of the internet"—a vast, immersive space where our digital and physical worlds merge seamlessly.

The metaverse refers to an expansive, interconnected digital space where users interact with each other and the environment using avatars, VR headsets, AR glasses, or even just a smartphone. The sudden rise is the result of multiple technological advancements converging, including Virtual Reality, Augmented Reality, Artificial Intelligence, and Blockchain.

The metaverse represents enormous opportunities, but it also raises significant challenges. On one hand, it has the potential to make education, healthcare, and global collaboration more accessible than ever before. However, there are still concerns about privacy, data privacy, and the risk of exploitation. The digital divide could become even wider, leaving some communities behind.

With all the uncertainty, there is one thing that we can be sure of: the metaverse is here to stay and growing rapidly! Just as the internet transformed the world in the 1990s, the metaverse could define the decades ahead. It is not merely a technological trend; it is a cultural shift that will change the way we communicate, collaborate, and experience reality.

What makes the metaverse truly fascinating is that it does not aim to replace our physical world but rather to enhance it, creating a nexus where imagination meets innovation. It reflects the very essence of the festival: connection, creativity, and limitless exploration. As neon signs light up dark streets, the metaverse casts a bright light on a future with fewer boundaries, fewer distances, and more possibilities ahead.

At this neon frontier, our challenge is clear: to build a future metropolis that is immersive and innovative, but also inclusive, ethical, and sustainable. After all, the true measure of progress lies not in the technology itself, but in how it empowers people and transforms lives.

The metaverse is no longer a distant dream—it is the future unfolding before our eyes, and it is up to us to shape it into a future worth living in. In the glow of this digital dawn, the real question is not whether the metaverse will rise, but how we, as creators and explorers, will rise along with it.

Praneeth M
2 MCA A

Why Regional Flavour Makes Mass Movies Truly "Mass"

In the landscape of Indian cinema, few genres carry the energy, appeal, and raw connect that "mass movies" do. Designed to entertain the widest possible audience, these films thrive on larger-than-life heroes, explosive action, memorable dialogues, and emotional highs. Yet, what truly determines their impact is not how universal they are, but how deeply rooted they remain in the soil they come from. The paradox is simple: the more regional a mass movie is, the more mass it becomes.

The Power of Cultural Specificity

Mass films are not meant to be abstract, placeless stories. They gain strength from their surroundings—local slang, folk music, attire, and cultural mannerisms that make the world onscreen feel authentic. When a Tamil mass hero delivers a punch dialogue in the colloquial rhythm of Chennai streets, the film carries a resonance that no pan-Indian gloss can replicate.

Audiences cheer because they see themselves, their neighbourhoods, their frustrations, and their aspirations projected onto the big screen in a heightened, celebratory form. It's this rootedness that transforms entertainment into a shared cultural experience.

The Illusion of "Pan-Indian"

In recent years, the industry has chased the "pan-Indian" label. Big productions often dilute regional flavours to appeal to a broader audience. Ironically, these attempts sometimes rob films of the very spark that makes them memorable. On the other hand, movies that lean unapologetically into their regional identities end up resonating across borders.

Think of how Pushpa's Chittoor slang or KGF's mining-town grit connected with audiences nationwide. Viewers outside those regions may not share the same lived experience, but they are drawn to the confidence of storytelling rooted in place and culture.

Authenticity Creates Universality

What seems "regional" at first often carries universal emotions. A festival sequence in a Tamil film or a coastal ritual in a Malayalam

story may feel specific to one community, but the emotions of pride, faith, or belonging cut across barriers. The deeper the cultural texture, the stronger the emotional punch.

This is why mass films that embrace their regional roots don't just succeed locally—they travel. They may not be polished exports in the Hollywood sense, but they carry the rawness of identity, and that rawness feels real everywhere.

Conclusion

Mass movies are built on energy, identity, and emotion. Their success lies not in smoothing out the edges of culture, but in amplifying them. The logic is almost poetic: the more a film immerses itself in its regional soil, the more universally powerful it becomes.

Being proudly local is the most effective way to go truly mass in a country as diverse as India.

Trapped in Metrics: How Placements Reduce Students to Numbers

Shobha Mary Varghese
5 MCA B

For many, graduation from college is not a triumphant culmination of years of diligence, but a frantic, anxiety-ridden dash towards a finish line that forever retreats. The sacred practice of college placements, once a ticket to a secure future, has become a cutthroat and often humiliating competition. It's a high-stakes game in which students are pitted against their classmates, their value reduced to a resume, and their aspirations squeezed into a set of usually soul-destroying interviews.

This persistent chase after a prized offer letter is merely the initial stage of a far more extensive, and perhaps more discouraging, marathon: the eternal cycle of the 9-to-5.

The pressure starts subtly, a whispered thread of discussion of internships and "high-demand" skills that slowly build into a cacophonous roar. And then, at a moment's notice, the thrill of discovery is eclipsed by the panicky compulsion to be "placeable." Classrooms become practice fields for aptitude tests, and relationships are tense with the subtext of competition.

Students are caught in a never-ending cycle of resume-factoring, mock interviews, and corporate presentations, each one riddled with the spectre of not being good enough. The process itself can come to feel intensely impersonal and, on occasion, degrading. Experiences like these leave budding, idealistic individuals feeling like commodities on an assembly line, their specific talents and aspirations reduced to conform to a corporate cookie-cutter.

This constant pressure is mentally draining. The comparison, the threat of rejection, and the crushing weight of parental and societal expectation provide fertile soil for anxiety and self-doubt. The elation of finding a placement is short-lived as it is promptly followed by the realisation that the "finish line" was but the starting gun for a new race.

Finally, there is the harsh reality of the 9-to-5. The thrill of the first job, the dignity of a pay check, and the illusion of adult autonomy start to lose their lustre in the background of a humdrum routine. The alarm clock becomes the daily oppressor, the daily commute a soul-sucking ritual, and the office was a beige landscape of cubicles and mandatory small talk.

The rich, dynamic people who came into this world are too often reduced to technical roles, their potential for creativity and curiosity wasted by the

routine of their tasks. The corporate speak, with its jargon and acronyms, is alienating, and with it comes an added sense of detachment. Constantly having to be “on” to be a “team player” yet still in competition to stand out as an individual creates a culture of silent desperation.

The erstwhile bright-eyed graduates, replete with ideas and the fervour to bring change, are trapped in a hamster wheel of deadlines, meetings, and performance reviews. The vision of a meaningful career yields to the drab reality of making a living, of sacrificing precious hours of life for a wage that barely suffices to maintain a lifestyle crafted to render the 9-to-5 tolerable.

Not that all corporate careers are soul-sucking, or that a secure income has no value. However, the dominant frame that a “good” placement is the be-all and end-all metric of success, and the 9-to-5 the sole sustainable option, does an injustice to the limitless possibilities of a young and ambitious population.

It’s a system that tends to value conformity over originality, and output over happiness. The competition for spots and then the dive into the 9-to-5 cycle can sometimes feel less like a path to self-discovery and more like a steady dissolution of the self. It serves as a harsh reminder that the most desired finish lines are sometimes only the starting point for a race we never even meant to be on.

Quantum-Resistant Encryption for Real-Time Networks

SHAMBHAVI SINHA
2 MCA A

As we advance with technology, quantum computers are getting closer to reality, and with that comes a big problem. Some of the encryption methods we've trusted for years for securing our data might not be strong enough anymore. It's kind of scary when you think about how much information we send over networks every second, and how easily that could be intercepted if encryption can't keep up.

In order to protect sensitive information from such threats, newer methods are being explored. One approach mixes the already existing technologies with the new ones. For example, Elliptic Curve Cryptography, which is already a widely used encryption method, can be combined with CRYSTALS-Kyber, a modern-age post-quantum algorithm that is designed to withstand quantum attacks.

On top of that, error-correction methods like Turbo Codes help make sure that even if the network isn't perfect, like when packets get lost or delayed, the data still comes through.

Another cool idea is hiding information within regular network traffic using something called adaptive steganography. It's like sneaking data into normal communication in ways that are hard to spot.

The system keeps track of how fast the network is, how much data is flowing, and other factors, and then chooses the best way to hide the information depending on the situation. So even if the network gets messy, the hidden data stays safe.

What's exciting is that tests show this combination of techniques works really well. Data can be sent securely and efficiently, even when the network isn't cooperating. As quantum computers evolve, methods like these might be exactly what we need to stay one step ahead and keep our information safe.

From Punk to Cyberpunk:

Rebellion, Resistance, and the Techno-Dystopian Age

Abhishek Singh
2 MCA A

Mohawks, ripped jackets, and loud guitars are frequently the first things that spring to mind when one hears the phrase "punk". However, punk was and still is much more than a style of music or clothing. The punk movement, which began as a protest against authority, conformity, and unbridled materialism, was born out of the frustrations of young people in the 1970s on the streets of London and New York. Its extreme individualism, radical "do-it-yourself" (DIY) mentality, and anti-capitalist fervour would upset not only music and fashion but also the way that future generations envision and question society.

Punk's anarchic essence didn't vanish as time passed into the digital era; rather, it changed. The outcome was the genre known as cyberpunk, which sets rebels and streetwise hackers in the shadow of massive megacities run by anonymous corporations. Building upon the roots of punk, cyberpunk imagines futures characterised by profound social divisions, technological triumphs and disasters, and the rule of unaccountable yet pervasive powers.

Punk Roots: Art, Anger, and Anti-Capitalism

Why did punk matter so much? At its core, punk was a movement for the marginalised and the disillusioned. Its lyrics criticised consumerist excess, economic inequity, and political hypocrisy. Its aesthetic—ripped jeans, second-hand clothing, and shredded hair—rejected the glitzy, corporately promoted trends that young people were exposed to.

Punk exposed how companies and systems diminish individuality, commodify dreams, and marginalise anyone who doesn't "fit in", which is why this anti-capitalist streak is so important. The message was unmistakable: reject mindless consumption, challenge the established quo, and construct your own world, no matter how imperfect.

Cyberpunk: The Future Is Punk

Punk's anger and iconoclasm were directly channelled by authors like William Gibson when they started writing what would become classic cyberpunk literature in the 1980s. However, these novels were set against neon-lit megacities, where "high tech" coexists with "low life"—where technology facilitates both oppression and progress, rather than guitars and urban poverty.

Cyberpunk heroes and heroines are outcasts, mercenaries, and hackers rather than rock stars. They strive for semblances of liberty in a society that is monitored and categorised not just by governments, but also by huge tech companies and secretive elites. Cyberpunk's main concern is the

same as punk's anti-corporate cries: what happens if the machine prevails and people are reduced to mere cogs in a mechanism that is driven by profit?

Reflections in Media: Cyberpunk 2077, Blade Runner, The Matrix

The influence of punk and cyberpunk is evident in popular media today. An undeniable echo of punk's anti-establishment wrath, Cyberpunk 2077 immerses players in a dystopian city where mega-corporations control every aspect of life. From neon signs to street gangs, the city's aesthetic is directly lifted from punk's visual lexicon.

Dehumanising capitalism and muddled identities define the future shown in Blade Runner's famous rainy cityscapes. The Matrix, on the other hand, presents a postmodern fable of rebellion, viewing liberty as a profoundly individual, collective endeavour, authority as something to be challenged, and reality as a system to be subverted.

Why It Still Matters

Why is all this important to us now? Because in the face of consumerism and uniformity, punk—and its cyberpunk offspring—teaches us the importance of community, creativity, and resistance. It challenges us to consider how systems affect our lives and aspirations, in addition to who is in charge.

The lessons of punk and cyberpunk are more important than ever in a world rapidly moving towards an AI, surveillance, and inequality-filled future: remain fearless, remain sceptical, and never give up on your dreams. Our resistance, our art, and our tales sustain the spirit—today and into every future.

Anwin K Biju
5 MCA A

Image credits: Google, TensorFlow, Magenta.

Bridging Music and Mind: Cognitive Psychology in Magenta's Creative Process

Executive Summary

TensorFlow-supported Google's open-source AI research project for creative purposes, Magenta, is the subject of this case study. This project mimics human creativity and improvisation by using machine learning to create music and art. Magenta has developed artificial intelligence (AI) tools that utilize human vision, memory, and emotional reactions to help artists produce more captivating and emotionally powerful artwork. This case study examines in detail the use of cognitive psychology ideas to this investigation.

Background

Problem statement:

How can machine learning with human thinking capabilities be used to create engaging and more soulful melodies by users,regardless of their musical expertise?

Objective:

Improve the quality of AI-generated content by using cognitive psychology principles.

Magenta Overview: Magenta is an open-source project by Google that was created in 2016 for music production. The latest version of Magenta has five tools: Continue, Groove, Generate, Drumify, and Interpolate.

- Continue accepts an audio clip as input and uses the power of recurrent neural networks (RNN) to generate notes that will follow your drum beat or melody. A given audio clip can be extended up to 32 measures.

Image credits: Tensoflow.org

- Generate similar to 'Continue' but generates a 4-bar phrase without any input. Choose the output file location, number of variations, and temperature, and click Generate. This can be useful for artists in case of creative blocks or a lack of ideas.

On the backend, Generate uses "Variational Autoencoder (VAE)", which has been trained on millions of melodies and rhythms to recognise the underlying patterns in the music.

- Interpolate is different from both previous tools; it takes two melodies or drum beats and creates up to 16 variations, which will combine the quali□es of both the input clips. It's useful when users want to merge two ideas to create similar melodies or drum beats that will resonate with both input clips.

This also uses the VAE, which is similar to 'Generate'.

- Groove takes a drum beat as an input and adjusts its velocity and □mings to simulate the feeling of a real drummer. This is almost similar to the 'Humanise' tools available, but they work differently. Fifteen hours of performance by real drummers are recorded on MIDI drum kits. These were quantised and were used to train a neural network model that predicts the unquantised beats as output.

- Drummify creates grooves based on the input rhythm. We can add drum accompaniments to different melodies, baselines, etc. It works best with the performed inputs, but it can also handle quantised input.

The same dataset that is used to train the Groove is also used for this one.

Analysis of the problem statement:

Artists and musicians have said that the content created by AI does not seem human but seems more 'mechanical'.

Cognitive Psychological Insights

- Perception: People tend to perceive art emotionally, attending to patterns, semantics, and context.

- Memory: Our emotional experiences tend to be linked to our memory; they affect how we comprehend art.

- Emotional Response: Music is emotive through rhythm, structural harmony, semantics, and cultural context.

Comparing Human Cognition with Magenta's AI Model

1. Memory and Sequential Learning

Human Cognition: Humans remember the striking patterns, words, and rhythms from previously heard songs for new compositions.

Magenta AI implementation: Magenta AI uses the Recurrent Neural Network (RNN) and Long-Term Short-Term (LSTMs) to remember the informa□on about the set of songs that are used for training.

'Transformer Models' improve coherence by remembering longer sequences of music.

2. Pattern Recognition and Categorisation

Human Cognition: Brains identify the rhythmic, melodic, and harmonic patterns in music. We recognise the difference between jazz and rock songs based on the tempo and chord progression.

Magenta AI implementation: Uses CNN and RNN to learn the music structures. Will be trained on different sets of MIDI files to classify the genre-specific patterns.

3. Decision Making and Prediction

Human Cognition: Humans decide on the next note or next rhythm pattern on the basis of their music knowledge (heuristics) and intuition.

Magenta AI implementation: Uses Reinforcement Learning methods to optimise the track. It experiments with different combinations and also takes feedback from the user and improves over time.

4. Creativity and Generative Thinking

Human Cognition: Human creativity includes creating an all-new idea (which could be combining more than one genre, or doing completely new and out-of-the-box thinking) from scratch or creating beautiful compositions within the existing boundaries.

Magenta AI implementation: Uses Variational Auto Encoders (VAEs) and Generative Adversarial Networks (GANs) to learn the underlying patterns of the compositions from the training data to create an entirely new composition. It can also create a new genre by interpolating the patterns from different genres.

5. Adaptation and Learning

Human Cognition: Transfer learning is applying knowledge from one domain to another. Humans naturally transfer learning. If the composer is a pianist, he can apply more styles and patterns from his knowledge to his composition.

Magenta AI implementation: Can also do transfer learning. They can also transfer learned musical styles and apply them to different compositions.

Example: Nsynth(Natural Synthesiser), a tool from Magenta, creates new sounds by blending instrument characteristics.

Applications of Magenta

Applications of Magenta have been spread into different sectors, from enabling users to create music, regardless of their musical expertise, to helping professionals create music. Magenta also helps well in live performances. Magenta also helps musicians during their creative blocks. Artists looking for inspiration for a new composition can always leverage the power of Magenta to come out of their creative blocks.

Magenta is also used to create art. It is used to create images, videos, and even entire movies that are unique, original, and have never been seen before.

The Magenta team also works hand in hand with the artists to take the music production process to a whole new level. YAHCT and The Flaming Lips were one of their first collaborators.

image credits: Google blog

The trio from YAHCT came to Google to gain additional knowledge about artificial intelligence and machine learning to incorporate these in their upcoming album. They first took all 82 songs, split them into melodies, baselines, and drum rhythms, and isolated them. Then they took these separated parts, trimmed them into 4 bar loops, and fed them into a machine learning model, which put out new ideas based on their old works. They also did the same with the lyrics. They put their old lyrics and inspiration for their new album into the model. The potential task was to select the lyrics and melodies that matched and made sense.

Magenta's MusicVAE model was used to compose each song on the album, Ross Goodwin trained an LSTM to write the lyrics, and Magenta and Creative Lab's NSynth Super instrument was used for some of the performances. Additionally, generative neural networks were used to create the album's visual

elements, such as Mario Klingemann's GAN-generated promotional photos and Tom White's adversarial perception engines for the album cover. The films contain Pix2Pix sequences and SVG-VAE fonts created with implementations found in Magenta's GitHub repository.

Conclusion:

Google's Magenta is one of the revolutionary projects that came into the creative process. It has been a success in helping artists with everything from music production to live performances. This study shows how Magenta integrates

Jesse Engel, Claire Evans, Wayne Coyne, and Adam Roberts speak at I/O.

cognitive psychological principles to simulate human-like music compositions. With the help of neural networks, reinforcement learning, pattern recognition, and generative models, they are able to compose, improvise, and collaborate with human musicians.

By making the program open source, they are also encouraging engineers and artists to contribute and push the boundaries of what they are capable of. Magenta offers a variety of tools that allow users, from regular guys to expert musicians, to take advantage of its machine-learning skills for producing music or coming up with innovative ideas. By bridging the gap between artificial intelligence and human creativity, the project makes music creation more inventive and accessible.

The Great Chai Conspiracy

B K VISHNU
2 MCAB

Vikram stared at his phone screen like it had just insulted his mother's cooking. The message was simple enough: "Meeting at 3 PM. Bring the files. -Priya."

What it didn't mention was that these weren't just any files. These were the files that could either make him the youngest VP in his company's history or get him fired faster than you could say "performance improvement plan."

"Brilliant," he muttered, shoving his glasses up his nose. "Just absolutely brilliant."

His colleague Arjun looked up from his desk, where he was pretending to work while actually

watching cricket highlights. "What's got your dhoti in a twist now?"

"Oh, nothing much. Just that Priya wants to see the Bangalore project files, and I may have accidentally deleted half of them while trying to impress that new intern, Kavya, yesterday."

Arjun nearly choked on his chai. "You WHAT? Bhai, you're about as smooth as sandpaper. What exactly were you trying to show off?"

Vikram slumped in his chair dramatically. "I was demonstrating our 'advanced data management system' and clicked the wrong folder. Apparently, showing off your tech skills works better when you actually have tech skills."

"Revolutionary concept," Arjun deadpanned. "So what's the plan? Run away to Goa and become a beach shack owner?"

"Tempting, but my mother would hunt me down. No, I have exactly two hours to either recover those files or come up with the most convincing explanation since 'the dog ate my homework.'"

Suddenly, Kavya appeared at his desk like a ninja in business casual. "Did someone say something about deleted files?"

Vikram's face turned the colour of tandoori chicken. "Oh, hey Kavya! We were just, um, discussing theoretical data recovery scenarios. You know, for fun. Because we're totally normal people who

discuss IT disasters for entertainment."

She raised an eyebrow that could have cut glass. "Right. Well, your 'theoretical' problem might have a solution. I happened to notice you working on those files yesterday—"

"You mean you witnessed my spectacular failure."

"—and I may have made a backup copy. You know, just in case someone with questionable computer skills did something predictably disastrous."

Arjun started slow-clapping. "And this, my friends, is why women are clearly superior. They plan for our stupidity."

Vikram felt his soul re-enter his body. "Kavya, you beautiful genius! You've just saved my career and possibly my will to live."

"Don't get too excited," she smirked. "This favour comes with conditions."

"Name them. Anything. I'll buy you chai for a year. I'll do your presentations. I'll even listen to your theories about why pineapple belongs on pizza."

"Actually, it's simpler than that. Next time you want to impress someone, maybe try using your

actual talents instead of pretending to be a tech wizard. I hear you're quite good at strategy and Analysis."

Vikram blinked. "Wait, you think I have talents?"

"Shocking, I know. Now, shall we go save your meeting with Priya, or would you prefer to continue having an existential crisis in the middle of the office?"

As they walked toward the conference room, Arjun called out, "Hey Vikram! Next time you want to impress someone, just remember confidence is key, but competence is better!"

"Thanks for that wisdom, Aristotle!" Vikram shot back. "I'll be sure to write it down right after I figure out how to not accidentally delete my entire career."

Kavya shook her head, grinning. "You know, for someone so worried about looking stupid, you sure have a talent for saying exactly the wrong thing at exactly the right time."

"It's a gift," Vikram replied. "A terrible, terrible gift."

And as they entered the conference room where Priya was waiting with her signature 'I'm-about-to-end-someone's-career' smile, Vikram couldn't help but think that maybe, just maybe, his Disasters were finally starting to work in his favour.

After all, it's not every day that your complete incompetence leads to impressing the person you were trying to impress in the first place.

Life, Vikram decided, had a twisted sense of humour, much like his friends.

"Ready?" Kavya whispered.

"As ready as someone can be when their career depends on the kindness of someone who's already seen them at their most pathetic."

"So, a normal Tuesday then?"

"Exactly."

The Algorithm's Choice

ALEX KHUNDONGBAM
5 MSAIM

Arjun was sitting in the library at Christ University with almost a dozen windows open on his laptop. What was on the screen? Job portals, LinkedIn profiles, and AI-powered résumé builders—all promising to be the magic key to getting employed in the uber-competitive market that exists today.

He had completed his graduation with notable projects in artificial intelligence and machine learning, and had also contributed to the publishing of research papers, besides which he could brag of having a virtual campus tour made just for him. Nevertheless, after hitting every apply button, the feedback of recruiter silence seemed to be getting louder to him.

Once, while he was on the verge of breaking down his CV for the umpteenth time, Arjun found out that his name was on the blacklist of a company, an internal note from a recruiter's careless LinkedIn post had been brought to light. Apparently, the résumé filter AI had flagged him as "high risk of job-hopping" due to similarities of his internships with the data set of job-hopping patterns.

Arjun was very much cooked and at a loss for what to do–

Should he trick the system, create a completely new online personality for himself, and remove every suspicious element from his résumé?

Or should he confront the system directly, revealing the injustices of recruitment AI and its impact on careers?

He took the new identity route—along with a changed name—applying somewhere else(Identity theft is not a joke; millions of people suffer from it every year). He was shortlisted within just two weeks, against all expectations. The very company which had once categorised him as "blacklisted" was now commending him for a "fresh profile."

But the offer had hardly time to reach him when he was sent an entirely different message: a recruiter from an international AI ethics research group that had come across his post on the algorithm, his off-the-cuff rant about recruiter tech, and forgotten it, wanted him to join them, to analyse and mend the kind of bias he had just outsmarted.

He had the option to accept the high-paying corporate role that was simply "fictional" for him or the research work, which was uncertain, but the one that resonated with his true self.

Arjun leaned back and listened to the bells ringing outside. It took him months to realise that he was not in a race to get a job but in the game of which version of himself he would like to project to the outside world.


Code Forge
Research + Projects

Easeline:

A Better Real-Time Grievance Redressal System for Student Support Enhancement

Rashmitha Sevi P & Kailas
5 MCA B

Introduction

Increased digitalisation of student services has increased the need for quicker, transparent, and real-time grievance redressals. University grievance procedures are lengthy, transparent, and non-real-time. Easeline, a mobile application created for postgraduate Computer Science students at CHRIST (Deemed to be) University, is being developed to bridge these gaps.

Built on Flutter for cross-platform compatibility and Firebase for real-time functionality, Easeline is a seamless, interactive grievance management system. Students can submit categorised grievances, upload geotagged images and documents, get real-time notifications, and avail themselves of emergency broadcasting services through the application.

Weaknesses of Traditional Grievance Redressal Systems

Traditional grievance redressal systems are plagued by inefficiencies that render them ineffective. Software like "Knowledge Pro" utilised in universities lacks a proper grievance reporting feature, with no option to categorise a real-time alert or support documents. Software like the University Grants Commission's e-Samadhan also often has spasmodic response times due to its dependence on individual institutions.

Other university arrangements like MIT World Peace University and Nirma University are also affected by the delay in grievance redressal within complex, multi-step frameworks of obstacles to decision-making. These limitations strengthen the imperatives of a more effective response and participatory system like Easeline.

Easeline: The Proposed System

Easeline is committed to developing an actually active, rich features grievance management system that has the benefits of correcting the limitations in the current grievance systems. The site allows students to:

- Submit grievances under subject categories.
- Upload documents and photographs, with geo tags.
- Get immediate feedback and alerts from staff and volunteers reporting information.
- Request an attendance adjustment for justified reasons like medical emergencies.
- Post anonymously.
- Use an emergency broadcasting facility for urgent matters.

System Architecture

Easeline is developed on Flutter for cross-platform

deployment and Firebase for real-time database management. Firebase Cloud Messaging is used on the backend for real-time notification, and the Google Maps API for geolocation services. This makes the platform highly responsive, scalable, and deployable to other departments and institutions.

Benefits of Easeline

Deployment of Easeline offers several advantages:

Enhanced Responsiveness: Real-time complaint submission and tracking response enhances student assistance

Categorised Complaints: Categorising grievances as a systemically organised process yields better complaint resolution

Transparency: Students can see the actions taken on their grievances, which has accountability

Emergency Support: Emergencies are prioritised, and campus security has enhanced capacity.

Anonymous Reporting: Students can report incidents anonymously without any reprisal.

Integration with Academic Systems: Being able to apply for attendance requested makes academic culture supportive.

User Interface and Functionality

Easeline's UI is designed on a modular basis, in a way that it is easy to use for the teaching faculty and the students:

Login Module: Firebase role-based authentication.

Grievance Submission Module: Grievances were filed as geotagged images and supporting documents by the students.

Resolution Dashboard: Grievances and replies can be viewed and acknowledged in real-time by the volunteers and the teaching faculty.

Announcements Module: The teachers can make announcements of immediate notifications and emergency alerts.

Implementation and Challenges

Easeline implementation is three months with the Firebase free tier for an initial deployment. The challenges are maintaining data privacy issues, handling multiple simultaneous real-time notifications, and effectively optimising volunteer responses. The above challenges can be avoided by offering enhanced security measures and effective resource optimisation.

Future Prospects

Besides grievance redressal, Easeline can become an overall support system for students. The future holds promise of features like detailed analysis of chronic issues, feedback forums for faculty and volunteers, and integration with larger student service systems. With each capability addition, Easeline will raise its own bar in student grievance management for schools and universities.

Conclusion

Easeline is a landmark in the evolution of student grievance redressal systems. Simplicity and real-time technology accelerate issue resolution, introduce transparency, and make the academic environment more empathetic. While schools are embarking on the digitalisation journey, Easeline is pioneering technology use in student support services, and the overall student experience is enhanced.

API Design:

Principles, Architecture, and 2025 Trends

Josaiah Murfeal Dkhar
5 MCA A

APIs — Application Programming Interfaces — are the hidden engines behind the digital world. Every login, payment, or data sync happens through an API.

In 2025, APIs are no longer just backend utilities. They are products in themselves — driving user experience, business growth, and developer collaboration.

For companies, good APIs unlock new revenue streams. For developers, they define how fast teams can build. And for students like me, learning API design is one of the most valuable skills to future-proof a career in software.

This guide explores API design principles, modern architectures, security strategies, and future trends. By the end, you'll see why APIs are not just about code — they're about creating ecosystems.

(Based on insights from the YouTube video 'How to Design APIs Like a Senior Engineer (REST, GraphQL, Auth, Security)' and industry-proven best practices)

Core Principles of API Design

Designing APIs is about building a contract between systems and people. A well-crafted API should be predictable, secure, and scalable.

- **Discoverability and Developer Experience:** Clear endpoints, meaningful resource names, and interactive documentation (Swagger, Postman) make APIs easy to use.
- **Reusability and Modularity:** Modular resources (/users, /orders) prevent duplication and encourage multi-team collaboration.
- **Consistency Across Layers:** Use plural nouns, consistent HTTP methods, status codes, and standardised error messages.
- **Security by Design:** Protect APIs with encryption, rate limiting, authentication (OAuth/JWT), and secure error handling.
- **Scalability and Evolution:** Plan for growth with versioning strategies (URI, headers, semantic) and backwards compatibility.
- **Performance and Efficiency:** Pagination, filtering, caching (ETags, CDN), and async handling keep APIs fast under load.
- **Comprehensive Documentation:** Auto-generate docs, add examples, and allow interactive testing.

"APIs are not just code — they're contracts with your developers."
-Postman API Design Team.

Modern API Architectures

API adoption, scalability, and performance are determined by the appropriate design.

The industry standard is still REST APIs. straightforward, predictable, and resource-based. HATEOAS is used for discoverability in Advanced REST.

```
# REST Example

GET /users/123

{

“id”: 123,

“name”: “Mira”,

“email”: “mira@example.com”

}
```

GraphQL APIs: Clients fetch exactly what they need. Requires cost analysis and query depth limiting.

```
# GraphQL Example

{

user(id: “123”) {

name

email

}

}
```

- **gRPC:** A powerfully typed, high-performance binary protocol that is perfect for microservices. automatically generates client SDKs.
- **Event-driven APIs:** For real-time streaming that works well for chat apps, the Internet of Things, and dashboards, use Kafka or RabbitMQ.

Trade-offs include event-driven for real-time systems, GraphQL for flexibility, REST for reach, and gRPC for speed.

Data Modelling, Validation and Error Handling

If endpoints are doors, data modelling is the blueprint.

- **Modelling Resources:** Define clear resource boundaries (/users/123/orders). Denormalize for performance and normalize for clarity.
- **Versioning:** Use headers, semantic versioning, or /v2/ to handle schema updates.

Sanitizing inputs, enforcing schemas, and stopping erroneous requests are all part of input validation.

Respond to mistakes in an orderly fashion in accordance with RFC 7807.

```
{

“type”: “https://api.example.com/errors/invalid-input”,

“title”: “Invalid input data”,

“status”: 400,

“detail”: “Email is required”

}
```

Clear error messages save developers hours of debugging.

API Security, Monitoring and Governance

APIs are prime attack surfaces. Secure them by design.

- **API Gateways:** Handle authentication, rate limiting, analytics, and routing in one place. Application of fine-grained role-based (RBAC) or attribute-based (ABAC) rules is required for authorization.
- **Monitoring and auditing:** Keep compliance, stop misuse, and identify irregularities.
- **Lifecycle Governance:** Adopt API-first practices, employ blue/green deployments, and publish deprecation schedules.

Case Study: Twitter API

The transition of Twitter from API v1.1 to v2 placed a strong emphasis on developer trust and governance. Stricter security, enhanced endpoints, and improved filtering increased adoption and decreased abuse.

New Developments in APIs in 2025

Digital ecosystems are changing as a result of the next generation of API innovation.

- **API-first Development:** Before building code, teams work together to design APIs.
- **Service Meshes:** Secure, observe, and route traffic in microservices environments.

- **Serverless APIs:** Elastic, pay-per-use APIs that scale without ops overhead.
- **Edge APIs:** Move computation closer to users for ultra-low latency (great for AR/VR).
- **AI-assisted Design:** AI generates SDKs, validates schemas, and detects anomalies automatically.

"The future of APIs lies at the intersection of automation, governance, and user experience." -Microsoft API Design Guide.

Learning API Design as a Student

For students like me, APIs are the best introduction to real-world software engineering.

- **Core Skills:** REST, GraphQL, error handling, API security.
- **Tools to Practice:** Postman, Swagger/OpenAPI, Docker, Kubernetes.

Learning Resources:

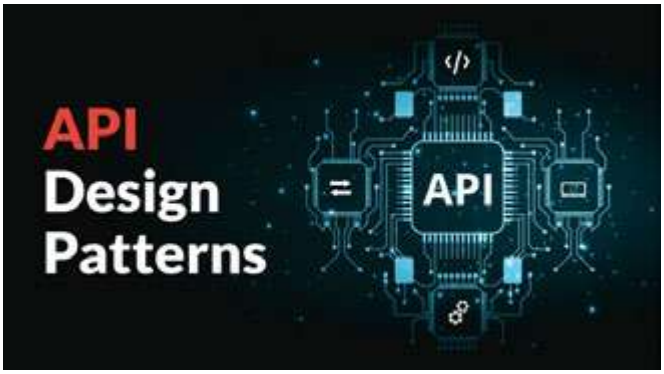
- Design API — YouTube
- Microsoft API Design Guide
- Postman API Design Hub

Tip: Start with a small project — like a todo app with REST and GraphQL endpoints. It teaches data modelling, versioning, and developer experience hands-on.

Conclusion: API Design as Strategy

Designing APIs isn't just about exposing endpoints. It's about creating products that scale, secure ecosystems, and accelerate innovation.

- APIs let firms form alliances and generate new income.
- APIs influence developers' productivity.



For students, learning backend engineering begins with designing APIs. The greatest APIs in 2025 and later will do more than simply link systems. People, opportunities, and the future of digital experiences will all be connected by them.

Neon Poverty:

Will Future Inequality Be Measured in Bandwidth?

Anamaya Saraogi
2 MCA A

The way we measure quality of life has evolved drastically across generations. In earlier times, it was assessed by land, wages, or material possessions. Today, it is defined by access to education, healthcare, and information.

But Tomorrow? Tomorrow, we may redefine living standards by who gets to stay online.

This is the idea of “neon poverty”: a world where inequality is measured not in dollars but in bandwidth.

Those who can afford fast, seamless, AI-powered connections are propelled into a well-connected digital world. In contrast, others are left buffering on the sidelines, locked out of opportunities in a society that has gone fully digital.

The Digital Divide Today: Seeds of Neon Poverty

This future is already taking shape as the digital divide becomes apparent worldwide in various forms.

As of February 2025, only 5.56 billion people (68% of the world population) were online. On the surface, the digital divide may be perceived as the gap between those with access to information and communication technology (ICTs) and those without it.

But in reality, it is far more complex and includes various factors such as affordability, infrastructure, and quality of service.

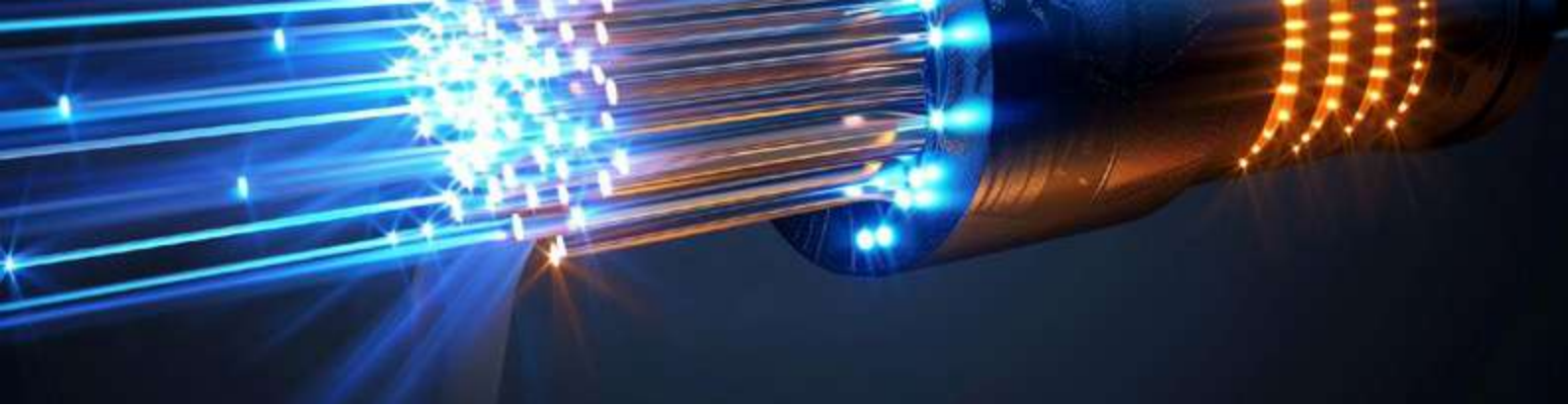
Among countries, factors like elevated costs, poor infrastructure, and lack of investment lead to global inequalities in access and use of digital technologies. Where developed nations enjoy widespread broadband, high internet speed, and affordable access, developing countries remain under-connected.

This gap risks creating inequality concerning education, healthcare, and economic opportunities, and international stratification, where countries become invisible in the emerging world economy.

Even in countries with high connectivity, stark inequalities persist in rural and urban areas. If available, broadband services in rural areas are often costlier and slower than in developed regions. For low-income groups, ICT costs are often excessive, limiting participation.

Consequently, these populations are locked out of online educational services, job portals, and other services.

India is the second-largest online market but boasts 806 million internet users, only 55% of its population.



The most significant factor leading to this divide is digital readiness. Among disconnected households, 49% in rural areas and 42.7% in urban areas are unaware of the existence of the internet or how to access it.

Secondly, the internet is too expensive for most of the population. Lastly, concerns about harmful content and privacy prevent people from logging in and becoming part of the digital world.

Policy and Law: Who Gets to Connect?

Being a multilayered concept, digital divide isn't merely a technological issue; there's also a legal and regulatory aspect. Countries that recognise the significance of digital connectivity often frame laws to guarantee equitable access for all citizens. For instance, Finland declared broadband a fundamental right as early as 2010, setting a precedent for treating connectivity as essential to modern life.

Internet Service Providers are decisive in shaping who gets connected and how. This is where net neutrality becomes critical and non-negotiable. It requires ISPs to provide equal access to all users, regardless of platform, region, or device, ensuring the internet remains a level playing field rather than a tiered system of privilege.

Not all countries deal with this uniformly. In 2017, India developed one of the strictest net neutrality laws in the world. In contrast, in the same year, the United States rolled back all net neutrality protections. These differences highlight how law and policy can either bridge or widen the gap of neonatal poverty.

Internet Blackouts

Sometimes, the digital divide is purposefully created and is increasingly used by governments across the globe as a political tool in the form of internet blackouts. Consider the 2019 internet blackout in Jammu and Kashmir, India, which is the longest in a democracy. The consequences were dire. Students could not attend online classes, traders could not connect with markets, and patients could not access telemedicine.

This incident alone helps us realise that the absence of connectivity is no longer an inconvenience; it leads to an isolation from the digital economy and global conversation, a reminder that policy decisions can create neon poverty overnight.

Bandwidth As The New Currency

Like it or not, technology now drives our world, where even a moment of internet disconnection or a server crash can throw our lives into disarray. In this world, bandwidth is no longer just a utility but a form of currency.

Think about it:

- **Education:** Universities are rolling out online degrees and AI is helping students learn independently. Without high-speed internet, a student cannot keep up.
- **Healthcare:** Telemedicine relies on stable video calls and rapid data sharing. In emergencies, lag could mean the difference between life and death.

- **Jobs:** Remote work, freelancing platforms, and AI-driven economies assume seamless connectivity. Slow internet equals fewer opportunities.
- **Artificial Intelligence:** As AI assistants become extensions of human thinking, access to powerful AI could become a new kind of literacy. But premium AI tools already sit behind paywalls, creating a tiered system of intelligence access.

A Cyberpunk Future of Inequality

Cyberpunk as a genre explores a society where advanced technology coexists alongside a dystopian society. Though traditionally, cyberpunk is about the divide between megacorporations and street-level survivors, our timeline suggests that the struggle may be less about slums and skyscrapers and more about who is connected.

Imagine two neighbourhoods in the same city: In the corporate towers, elites live in seamless metaverses, conducting business in real-time holographic meetings. Just a few blocks away, in poorly connected districts, residents struggle with lagging connections and outdated devices. Job applications time out. Online classes buffer endlessly. In the language of economics, these individuals are not just poor; they are digitally invisible.

This is neon poverty: where, even amid digital abundance, many are deprived of its benefits.

Conclusion

Even as I write this, putting thoughts into bits, I cannot help but feel grateful to be on the brighter side of neon. My words flow because my bandwidth does. But I also know that for millions, this is still a luxury.

As we move towards such a society, where poverty may soon be measured in megabits per second, a moral question arises: will we allow bandwidth to harden into the new currency of privilege, or will we recognise that connectivity is not a luxury but a lifeline and fight to make it as universal as clean water or electricity?

To achieve this, we must:

- Prioritise universal access by investing in broadband and affordable data plans.
- Enforce strong net neutrality so that the internet remains a level playing field.
- Promote digital literacy to ensure access translates into empowerment.
- Encourage innovation in low-bandwidth AI and services, so technology adapts to people.

The neon future is not yet written. It can glow for all or burn like a spotlight – dazzling a few while leaving the rest in the void. The choice, as always, is ours.

Malankara Orthodox Liturgica

Samuel Alex Koshy
5 MCA A

Numerous students and young adults, attending school or residing far away from their homes, find that prayer books may not be easily accessible. These young adults not only have the trouble finding the right prayer book, but have the added confusion of which version of the prayers to use.

These challenges led me to conceive and develop an application — a tool designed to provide easy access to prayers in a simple and organized format.

My friends and I experienced firsthand the challenges of wholeheartedly participating in services. The most immediate and solvable challenge was the lack of ready access to the appropriate prayer books — not only in Malayalam, but also in English and Manglish, which are essential for many of the faithful.

Having entered the digital age, where almost everyone owns a mobile device, it is increasingly important to ensure that the faithful of the Malankara Orthodox Church can access prayers easily and at any time.

Why This App?

The app aims to provide a platform for the believers of the Malankara Orthodox Syrian Church to access prayers easily and offline, with the smallest space taken up in their mobile device.

Updates to prayers should be centralized.

The liturgical calendar should be easily accessible and should be free from confusion.

The app should help clergy and laity with daily worship and prayer. There is no single reliable digital source for prayers, which this app aims to overcome.

Purpose and Objectives

The app should be able to provide prayers in multiple languages (primarily Malayalam, English, and Manglish, with the scope of adding more).

The liturgical calendar should have various feasts, events and related Bible readings.

The app should be accessible offline first. Navigation should be intuitive, and long scrolling should be avoided whenever possible. Make use of bookmarks, QR and deep linking to make navigation easy.

Scope of The App

A) In Scope

- Android Application
- Multilingual support
- Liturgical calendar

- Prayer Navigation
- Offline bundled storage
- Customized settings

B) Out of Scope

- iOS version
- Automated online updates
- Real-time collaboration or social features

System Design and Architecture

The frontend of the app is entirely built in Jetpack Compose and Kotlin to make use of its declarative UI framework and runtime speed.

Prayers and Bibles are bundled along with the app. As the app uses text and not images, it has a minimal size (6 - 7MB at the time of writing).

DataStore is used for settings, while JSON is used to store prayers.

Modules

- **Prayer Module** – Handles prayers in 3 languages and hierarchy in the tree, along with handling siblings.
- **Liturgical Calendar Module** – Creates an interface for users to easily access the Liturgical events of a year.
- **Bible Module** – Display Bible readings in an easy-to-understand format, along with selecting pre-defined excerpts based on the speciality of the day of the year.
- **QR navigation Module** – Generate and scan QR codes to easily navigate between different sections for different users.

What We Achieved

The app was successfully released on the Play Store (Open Testing on May 15, 2025 and Production on August 9, 2025).

The app hit 10,000 downloads on August 18, 2025. The app accurately presents prayers in an intuitive and easy-to-grasp manner for anyone to read and understand, with a simple onboarding page as well.

Users can easily customize the app for their preferences.

Conclusion and Future Scope

Malankara Orthodox Liturgica modernizes access to prayers for the believers of the Malankara Orthodox Syrian Church.

It is able to adapt to user needs in a digital format without breaking traditions.

The next step is to create an iOS version, as there have been many requests. There is also a need to create an online interface for the backend of the app, so that prayers can be updated by the non-technical staff of the Church, without the need for the developer.

I am also in the process of talks with the Church to have this app officially published through the Church (currently, the app is published privately).

Audio integration and video integration (YouTube iframes) are also features that would greatly enhance the app.

Cognitive Psychology in the Development of AI and Machine Learning – Mental Health for Youth

Siyona Snotra
5 MCA A

Introduction

Cognitive psychology considers the study of human thinking - covering topics such as learning, memory, thinking, perception, and problem-solving. It has played a crucial role in the development of Artificial Intelligence (AI) and Machine Learning (ML) algorithms today, which we have considered essentially adopting a human cognitive process in regard to its output and thus enhancing its function and efficacy through enhanced learning, adaptation and decision. I will outline and discuss the impact of cognitive psychology on AI and provide at least one example of work in healthy youth - AI chatbots for mental health.

How Cognitive Psychology Influences AI and Machine Learning

Cognitive psychology has served as a basis for AI and ML by allowing researchers to create systems that process information in a similar manner as the human brain does. This has led to some cognitive principles being incorporated into AI algorithms:

Neural networks and pattern recognition

- Artificial neural networks (ANNs) are mechanisms that allow AI processors to recognise patterns and make decisions through levels and linked pools of neurons, analogous to the way the human brain processes information.
- Deep learning models, emulating layers of neurons to discover features that allow machines to distinguish different features of data, form their own current time model of thought and cognition, similar to pattern recognition in human beings, over time.

Reinforcement learning and human models of learning

- Reinforcement learning grew from behavioural psychology's explanations of how humans learn from rewards and punishments.
- This approach is now widely implemented in AI using adaptive learning technologies, robotics, and game AI.

Memory and knowledge retention

- AI uses longer and shorter memory models inspired by cognitive psychology's studies of memory retention.
- Some technologies, such as transformer models like GPT, implement attention as memory recall of important information, similar to the human brain.

Natural language processing (NLP) and human communication

- Human natural communication, through AI-powered chatbots and virtual agents, uses simple

NLP approaches from cognitive linguistics to interpret and respond to natural human language, enabling machines to better understand and respond capabilities.

Emotion AI & Human Behaviour Analysis

- AI is being constructed to recognise emotion using sentiment analysis, facial recognition and voice tone analysis.
- These AI-based emotional analytics systems are being tested in mental health applications, with efforts mounting to use the same technologies to analyse student engagement.

Case Study: AI-Driven Mental Health Chatbots for Youth

Background

Due to academic stress, social media influence, and isolation, students and young adults are experiencing increased mental health challenges. Many young people may not opt for professional help due to stigma, lack of access, or cost. As a result, a new practical and accessible resource is emerging in the mental health space in the form of AI-driven mental health chatbots, such as Woebot and Wysa.

The Role of Cognitive Psychology in AI-Based Mental Health Access. Rewriting the Emotional Experience:

1. AI and Cognitive Behavioural Therapy (CBT): AI chatbots leverage Cognitive Behavioural Therapy (CBT) methods, a form of psychotherapy that is commonly used to treat anxiety and depression. These chatbots provide users with a means to reframe their negative thinking and develop new strategies for coping. For example, Wysa provides an AI chat-based experience to walk users through mindfulness exercises and techniques for reducing stress.
2. Emotions and Adaptive Responses: AI chatbots use sentiment analysis tools to interpret the emotional state of the user and will adjust their responses based on the user's apparent emotional state. For example, chatbots use a form of reinforcement learning to gradually develop their chatbot responses over time, which offers interaction that feels more human-like. Woebot develops the most appropriate health suggestions after asking follow-up questions to personalise the mental health experience.
3. 24/7 Availability: In Times of Need: AI mental health chatbots provide 24/7 access to mental health support as compared to a human therapist.

4. Personalised Mental Health Interventions

- AI-driven mental health chatbots can track users' emotional patterns over time and provide personalised insights.
- Machine learning algorithms analyse user input and recommend self-help exercises tailored to individual needs.

For Example: Replika, an AI companion chatbot, adapts to user conversations and provides customised emotional support. https://replika.com/

Research in cognitive psychology demonstrates the importance of being able to be listened to and accepted without any judgment. AI chatbots provide users with an opportunity to interact without any judgment (regardless of the level of mental distress).

For example, an individual experiencing anxiety in the middle of the night can turn to their AI chatbot rather than wait until the next session to help themselves.

Impact on Youth

- **Early Intervention:** Works with students to detect and prevent mental health issues from surfacing.
- **Confidentiality & Comfort:** Users feel more secure talking to a chatbot about sensitive issues than a human therapist.
- **Personalised Support:** AI personalises the conversation to the user, providing tailored information and exercises.
- **Burnout Reduction:** Students experiencing exam or academic-related stress can use AI chatbots to engage in mindfulness practices, including relaxation exercises.

Future Implications

The use of cognitive psychology in AI mental health support will continue to expand with advances, such as:

- **Emotionally Intelligent AI** that perceives nuanced emotional signals beyond text, such as voice intonation and facial expression
- **AI-Enabled Virtual Therapists** that can deliver real-time cognitive behavioural care using a fully immersive VR experience
- **Integration with wearable technology** to track stress levels and implement responsive mental health support
- **Hybrid AI-Human Therapy Models** (e.g., Therapy Chatbots) where AI-driven chatbots enhanced professional therapy by collecting insights about people and recommending care
- **AI-Enabled Social Support Networks,** so consumers connect with support groups with AI characteristics and share mental health experiences

Conclusion

Cognitive psychology has played a large part in the development of AI and ML, leading to intelligent systems that mimic some aspects of human thought. AI-based chatbots for mental health represent an exciting application of these principles as they provide 24/7 emotional support to youth in an open process, normalising a treatment option that is typically associated with stigma. As developments in AI continue, cognitive psychology will be integrated and used to transform mental health care through improved personalisation, adaptability, and effectiveness.

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SMART HELMET

Redefining Road Safety with IoT and Innovation

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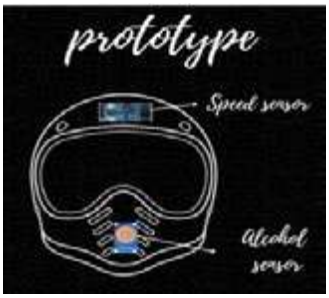
2 MCA B

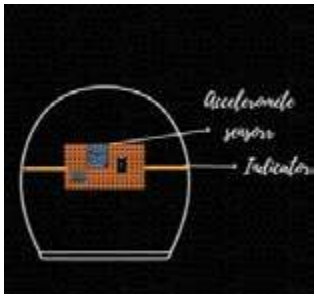
Problem Statement

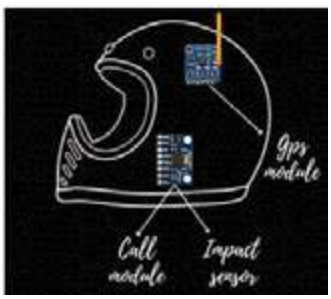
Every year, many lives are lost on roads because of accidents. In those situations, immediate medical help could save lives. As engineers, innovators, and problem-solvers, we have a duty to think outside the classroom and develop meaningful solutions.

This idea served as the impetus for our project, the Smart Helmet, an IoT, embedded systems, and real-time communication technology combination intended to increase road safety.

Solution







When an accident or impact is detected by the accelerometer, the system immediately springs into action. The GPS captures the rider's exact location, while the GSM module sends out an emergency SMS and places an automated call to a predefined contact.

In parallel, the ESP32 connects to the Ubidots IoT platform, uploading crash data, location, and even rider speed to the cloud. To further strengthen the response, the system is capable of sending an automated email alert to emergency services or guardians.

Beyond accident detection, the helmet also introduces an automatic indicator system based on head tilts.

By leveraging the accelerometer, the helmet can detect subtle tilts of the rider's head — left or right — and trigger the corresponding turn indicators on the motorcycle.

This eliminates the need for manual switches, making riding safer and more intuitive, and reducing the chances of missed signalling, which is a common cause of accidents on busy roads.

What makes this project unique is its end-to-end integration of hardware and cloud technologies. From real-time data visualisation on Ubidots

dashboards to the ability to analyse riding patterns, the Smart Helmet isn't just a reactive solution but also a proactive one.

It brings awareness, accountability, and connectivity into road safety — elements that have been missing in conventional helmets.

The project has already received immense appreciation and is now under review for research and publication.

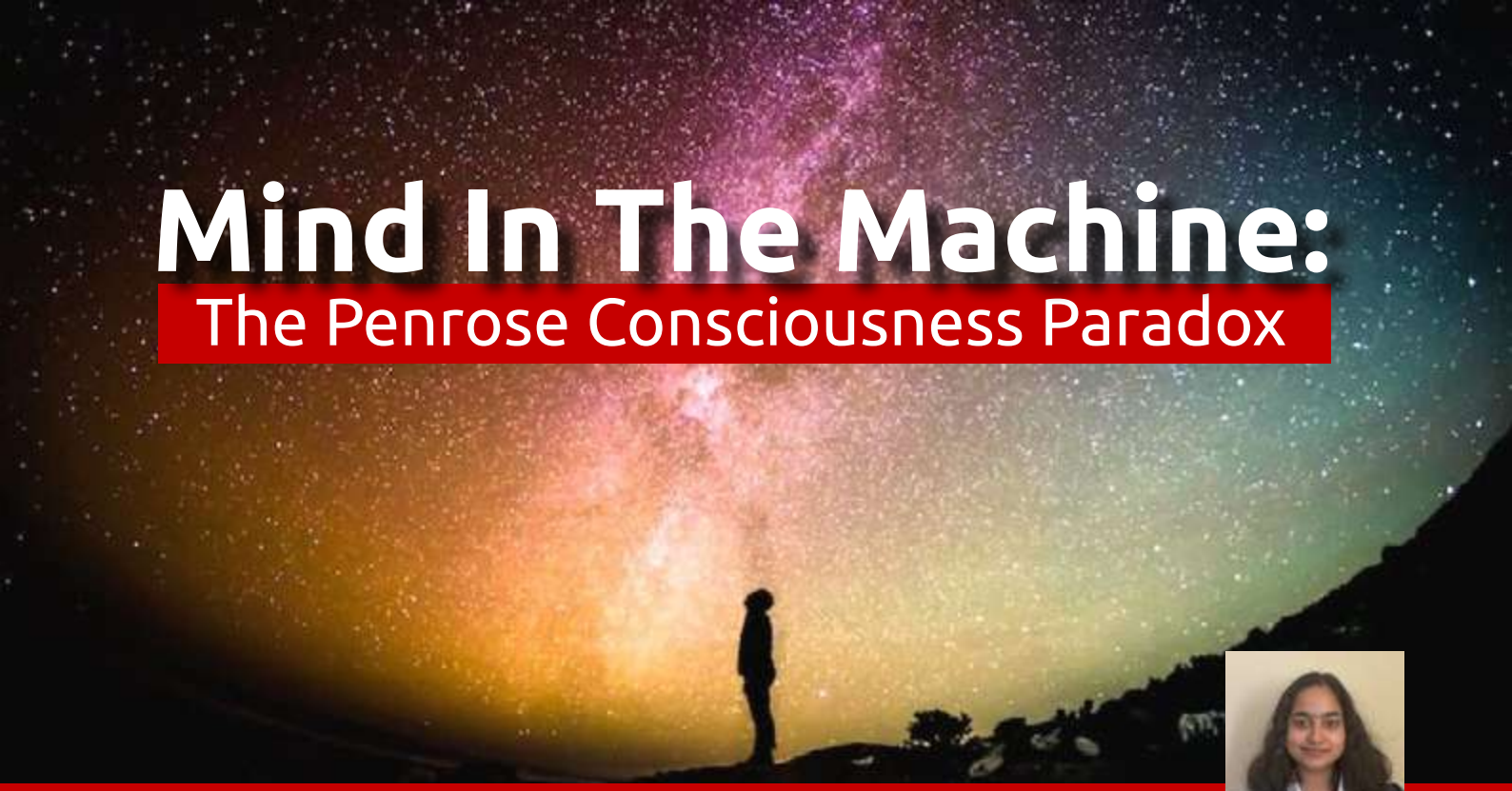
More than recognition, what excites us is the possibility that innovations like these can save lives, spark new ideas, and inspire more students to study the relationship between technology and its effects on society

Conclusion

The Smart Helmet does not signify the conclusion of a concept — it is merely the commencement of a vision: a future in which technology rides with us, protects us, and makes every journey a safe one.

It shows how technology is capable of taking ordinary everyday objects and turning them into life-saving devices, demonstrating that engineering is capable of serving humanity.

Most importantly, it opens up opportunities for students and researchers to re-define the possible and enacts a culture of innovation for social good, safety, and responsibility.



Mind In The Machine:
The Penrose Consciousness Paradox

Soujanya Bhat
5 MSAIM

What is consciousness? If we were to hypothetically consider a complex mathematical equation on a board, how we might go about solving it would help us. If I asked you how a computer could solve it, you would probably say that the computer examines it, it follows a series of steps programmed into it and then eventually gives you an answer. We humans do not just apply algorithms; we understand. Consciousness is the thing that makes us. The thing that gives us the ability to wonder, ponder, reflect, and feel.

One scientist who presented an alternative and traditional view of consciousness was Sir Roger Penrose, a mathematical physicist that worked on the mathematical physics of general relativity and cosmology and is well-known for his discovery that black hole formation is a robust prediction of the general theory of relativity.

Penrose disagreed with the orthodoxy in neuroscience which has for decades now held, at least in relation to the activity of the brain, that human consciousness was just a complicated programmed system (or computer). The idea that the brain is wet, made up of interconnected neurons communicating with one another over enormous networks through electrical and chemical signals is an idea that suggests functions similar to a computer, which utilizes transistors to process information.

In Penrose's 1989 published work, **The Emperor's New Mind** stated our brains literally do something computers will never do ever, not that they are complicated, but just because they do not run an algorithm.

Computers work through algorithms, essentially running step by step processes. Penrose believed human consciousness did beyond that and made connections that were not logical or simply understood things which could not be correlated through some hierarchical code.

Why? Temporary rightness (theoretical consistency) instead of absolute rightness (absolute truth). Gödel's Theorem, formulated by mathematician Kurt Gödel in 1931, states:

"In any formal system you can think of (mathematics, say), there will always be some truths that cannot be proven using the system rules of the system."

Penrose, along with John Lucas argued humans can identify the truth of certain mathematical statements that are, according to Gödel's theorem, unprovable according to the rules of the system. Penrose considered that consciousness was not a consequence of computation, he wanted to look towards quantum physics to understand it.

Before we refer to what Penrose stated in regards to his theories, it is important to understand what

quantum mechanics is. Quantum mechanics is a branch of physics that studies the behavior of particles at the smallest of scales. The two concepts of importance in Penrose's theory are superposition, i.e., **particles can exist in multiple states at one moment.**

One of the most famous examples is Schrödinger's cat. You can imagine the cat inside a box with the proposition of it having a 50% chance of releasing poison. The cat is considered both dead and alive, i.e., until we open the box and check the cat, it is both alive and dead. Only when we look does it "choose" a state.

Another consideration in this realm is that a particle exists in multiple states until it is measured, and when we witness an observation, the particle collapses to a determined state. Penrose believed this is the case, and he thought it was clearly related to consciousness.

The Penrose-Hameroff Theory

Penrose, together with Stuart Hameroff, an anesthesiologist who studied the microtubules inside neurons for at least 10 years, developed a theory, the orchestrated objective reduction (Orch-OR), suggesting the quantum activity inside microtubules could account for human consciousness. Microtubules are tiny structural components of cells that help them maintain their shape, as well as perform complicated functions.

These microtubules exhibit quantum superpositions, but only for a while, before they collapse via a unique physical process known as objective reduction (OR). It is this collapse generating the moments of conscious experience. Essentially, they argued, our thoughts and awareness are not solely the result of activity at the neuron level, but also from quantum processes taking place in our brains at a microscopic level

It sounded exciting. However, the scientific community expressed skepticism, scepticism in particular to the idea that quantum states could survive for any significant amount of time in the warm, wet environment of the brain.

Max Tegmark, another physicist, did some calculations and said quantum states in the brain would disintegrate too quickly to sufficiently participate in thought. We also have to think about contemplating the idea of why we need quantum mechanics to contribute to consciousness. The neuroscientists argued that our minds were products of a complex network of neurons firing in patterns which emerged over billions of years of neuroevolution.

Even so, Penrose and Hameroff adjusted their ideas, and in 2014, they pointed to brand new research which suggested that quantum vibrations were occurring within microtubules, leaving the door open to the conclusion that their theory was less fanciful than some would have believed.

What is the state of our understanding now? The debate continues. Neuroscientists have strong beliefs that consciousness is a product of classical neural processes. Most physicists think the brain is warm and noisy for quantum effects to be relevant. Perhaps Penrose was wrong. Or maybe he was onto something. It may just be that consciousness is even weirder than we have previously conceived it to be. Until next time.

NEON QUESTS:

UNLOCKING THE MAGIC BEHIND OPEN-WORLD RPG OBSESSION

Shivangi Agarwal
5 MCA B

Welcome to the realm of boundless wonders, where every step is an echo in the untouched wilderness of adventure. In the grand stage of open-world RPGs, you are a storyteller, a wayfarer amidst fantastical landscapes and endless marvels.

So, fellow explorer, ready yourself for the enchantment that unfolds in this tapestry of boundless potential.

Unlike average games that give you a set character to work with, thrusting you down a linear path like an overenthusiastic tour guide, open-world RPGs allow you to explore far beyond the road to home. There is a map, sure but the wonder of an open world is not just to complete a task but to take that detour, run along the vast fields of wildflowers, tame an Owl- Bear, and learn how to fly. You must, because you can be as directionally challenged as your GPS on a bad day, and it's not just tolerated but encouraged.

It's like being a kid in a candy store, except the candy store is the size of a small country, and you're armed with a sword instead of a shopping basket. A surefire recipe for making every gaming session and uproarious adventure.

A common misconception is that every open world is an RPG. In hindsight, open world games are quite literally the embodiment of our real world where you can go wherever, whenever, and interact with whoever.

On the other hand, RPGs have a more distinct flavour. From controlling their character and decision-making to creating relationships with the people around them thereby adding layers and a much-needed personal touch.

In The Witcher 3, Geralt is not just a monster-slayer; he is also a wine loving, gwent playing, romantic superhero with fabulous hair, or how Baldur's Gate 3 allows a bard to take down an entire race of aliens and gods with the aid of a Pale white elf, God's favourite princess, and a wizard from Waterdeep

Upon release of Cyberpunk 2077 it was claimed to be bugged through and through. However, after some course corrections and many, many updates, the game was claimed to be one of the finest open-world RPG games out there.

In short, what sets these games apart is the repercussions of your choices – they're not fleeting, oh no, they come back to haunt you or honour you, reshaping the very fabric of the story's ending.

Taking a page from the game Witcher 3, where they explored the concept of a 13–15-minute time wheel which acted as an amplifier to this synergy, assuring its success. The character is encountered with random events occurring like clockwork resulting in spontaneous decisions that come back to you as a consequence. This strategy ensures that players are not just passive observers but rather, active participants in the unfolding events, whether it be breaking one's heart or being responsible for someone's murder.

You as a character start a chain of events that leave an everlasting mark upon the very world.

Perhaps one of the most detail-oriented game designs is making NPCs living, breathing, complicated creatures with intelligence and a story. They aren't just home décor to fill the screen but have their daily routines and quirky behaviours that make the world feel more alive.

Whether you're eavesdropping on gossip, helping a robber, or accidentally setting their houses on fire (hey, it happens), the interactions with NPCs much like our real lives add a dash of unpredictability and hilarity to your virtual life.

While open-world games promise boundless exploration, players from around the world have reported that some fall prey to the pitfall of environments feeling lifeless, empty, random, and lacking meaningful stories. Games like Assassin's Creed Valhalla and AI generated Starfield environments, despite their vast landscapes, struggle to fill this void with "engaging content"

Regardless, most gamers would agree that the ability to design characters and tweak appearances and powers is half the appeal as it provides players with a unique sense of identity within the game.

Witnessing the growth of their characters whilst also being able to mould their beings both in terms of skill and mindset adds an extra layer of attachment making the players emotionally invested in their journey.

In the world of gaming, the perfect marriage of open-world exploration and RPG storytelling is a journey an individual embarks upon wide-eyed and curious. Critically acclaimed titles like Red Dead Redemption 2, Baldur's Gate 3, The Witcher 3 : Wild Hunt, and Elder Scrolls V: Skyrim, serve as great examples, perhaps templates for a life of wonder and fantasy.

In the end, it is neither about how ginormous the map is, nor how sensational your abilities, but, being a part of a world that is as much a character in your story as you are a part of it's. Or, in the words of our favourite video-game dad *"It Is The Nature Of A Thing That Matters, Not Its Form."*

QUIZVERSE:

Building Games From Your Questions

Mariam Sara Shiji and Malavika Manoj
5 MCA B

In a population with broadly diverse youth, it is estimated around 15% of India's population struggles with mental health challenges. In today's society, this is compounded by ignorance, and The Visual Novel Games wants to help bring some awareness to mental health through stories.

In a world where mental health and physical health are often least regarded, we want to use our platform to enable players to experience some of the emotional challenges met in some real-life scenarios.

We're using a combination of mental health resources using a gaming perspective to provide an exciting way to combine storytelling with self-reflection.

Research suggests that gaming can be helpful for mental health, so we have included a mental health questionnaire in the game which plays a role in the story bringing awareness to the story while asking users to reflect and make important decisions while they progress through the game.

The Visual Novel Game will use an interactive, choice-based game to improve mental health awareness. The game revolves around an adaptive storyline based on the given user choice by answering a mental health questionnaire that's noted throughout the game.

The system represents emotional situations people experience in the real world to the point where the gamer considers the way they feel, makes positive choices, and practices coping skills, just in a game.

The key components of the system are:

- Mental Health Questionnaire: The narrative is segmented and customized based on the responses made by the player.
- Choice driven Gaming: The players make their own choices that effect the narrative storytelling as well as encourage self- reflection and awareness of their emotional states.
- User Interface (UI): The System is designed to be simple yet engaging and user friendly; the gameplay is built for a general audience.
- Vent Box Feature: An in-game tool being provided which will allow the players to express their thoughts and feelings anonymously and therefore creates a supportive space.
- Mental Health Resources: The system introduces resources that promote the continuation of seeking professional help and connecting with support networks.

Need For The Project

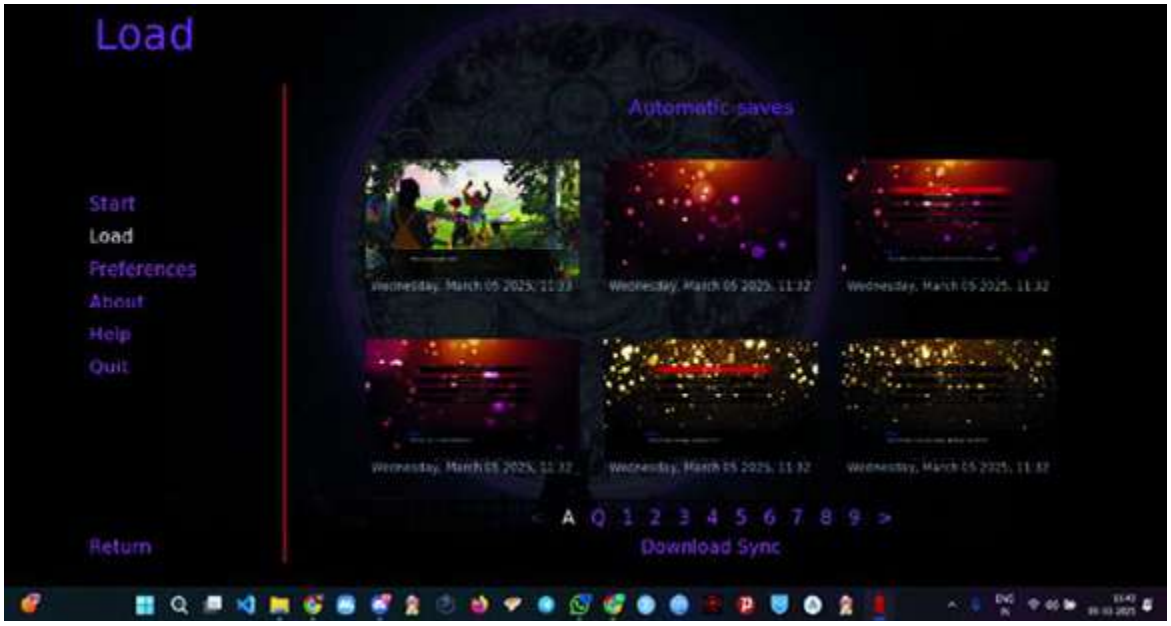
Considering the increase in mental health problems in youth as found in the studies being up to 20% globally, it is important to note that mental health conditions such as depression and anxiety have spiked immensely, primarily within youth.

Even though there are solutions currently available such as therapy apps, helplines, games, support groups and physical mental health resources there is a clear lack of engagement in current solutions.

Furthermore, despite India now having high literacy rates and great economic potential, during 2017 197.3 million persons experienced mental health related problems , which is concerning as persons living with mental health related problems suffer discrimination and exclusion.

In this kind of situation, most youth living in this kind of society will hesitate to bring their mental health issues to light which exposes youth to potentially life threatening consequences including decreased self-esteem and social exclusion.

For that reason, we have developed a project that provides a gamified approach to mental health that can reach a larger audience, especially youth, as it can be a game and provide a context for youth to connect with real life questions and ultimately use the publicly accessible, anonymous space for them to use mental health activity content.



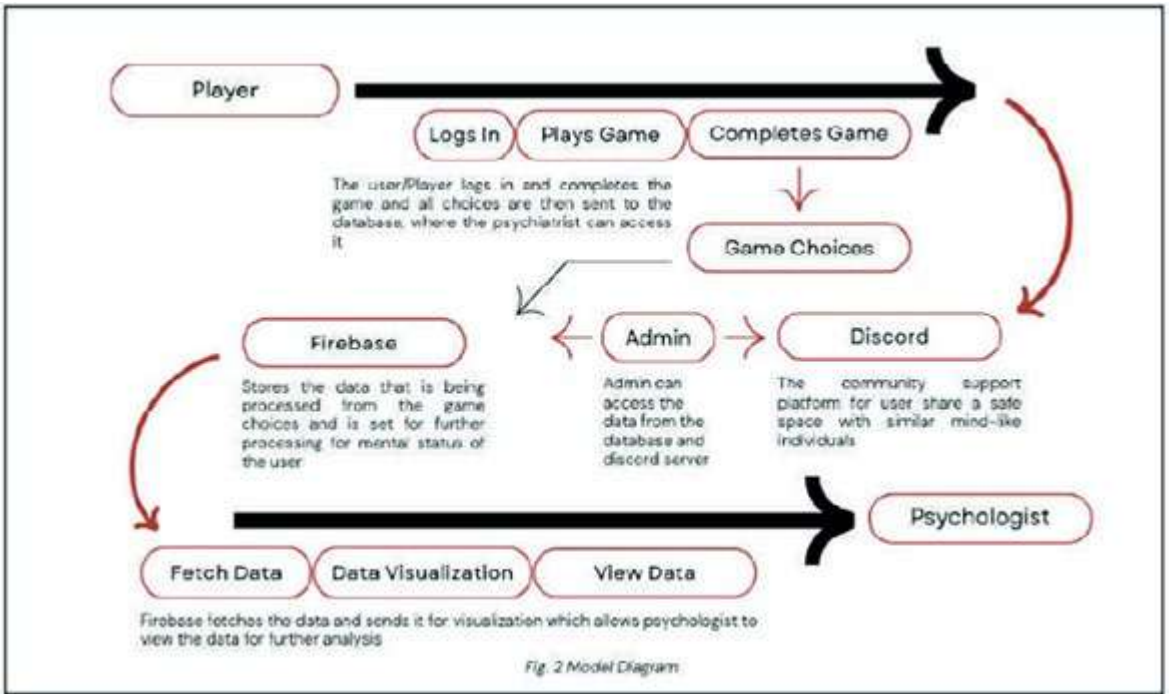


Fig. 2 Model Diagram

STARLINK:

BEAMING THE NET FROM THE FINAL FRONTIER

Joel Abhishek
5 MCA B

Starlink is an internet service provider that is a subsidiary of SpaceX, they provide internet access throughout the world through a network of satellites operating in Low Earth Orbit.

Unlike traditional approaches where a single Geostationary satellite would provide network access over a wide region and operate in a much higher orbit. Since Starlink's satellites are in Low Earth Orbit they are able to greatly reduce the latency in sending and receiving data.

This makes Starlink satellites and satellite internet as a whole a better option for activities like streaming or gaming.

Let's dive into some of the technologies that Starlink deploys for their operation

Low Earth Orbit (LEO) Satellites: Traditionally, satellite internet was achieved through Geostationary satellites operating at around 35,000KM. Starlink's new approach is to use Low Earth Orbit satellites that orbit at 550KM. Since they are so much closer the result is significantly lower latency.

Since Starlink's satellites orbit at a very low altitude they revolve around the Earth very fast. They are able to complete a revolution every 90 minutes. This means the ground stations that communicate with Starlink's satellites need to switch to a new satellite every 4 minutes to maintain service.

Ground Stations: Ground stations are a link between the Starlink satellites and the global internet. They actually enable internet access in the Starlink network. These ground stations have a huge number of antennas so many satellites can connect to them at the same time. Starlink has many ground stations all over the world allowing a much faster connection to the internet.

Phased Array Antennas: These are the antennas used by Starlink satellites so that they can communicate by transmitting signals. They are installed at both the user's end in their terminals and on the satellites themselves. These antennas are designed as an array of smaller antennas all working together. Due to their design, the smaller antennas are able to accurately steer or direct the radio waves which is very useful for tracking the fast moving satellites.

Beamforming: Starlink satellites are capable of creating a highly directed beam that can travel a long distance into space. They are able to generate a strong and focused signal like this by combining the power of individual antennas in the phased array.

64QAM (Quadrature Amplitude Modulation): 64QAM is a signal encoding technique that allows Starlink to transmit digital data over an analog signal. This method encodes data by varying the amplitude and phase of the transmitted signal. 64QAM is used as it gives two major benefits, the first is that it allows for a lot of data to be encoded into the bandwidth so a bigger volume of data can be transmitted at a time. Another is that it also provides a faster transmission rate.

Ku and Ka Microwave Bands: Starlink satellites use these two microwave bands for their inter-satellite communication. The Ku-band which operates at 12 to 18 GHz provides a good balance of cost-effectiveness and performance and it allows the use of smaller antennas and focused beams. The Ka-band which is between 26.5 to 40 GHz) is used for higher bandwidth and faster data transfer rates.

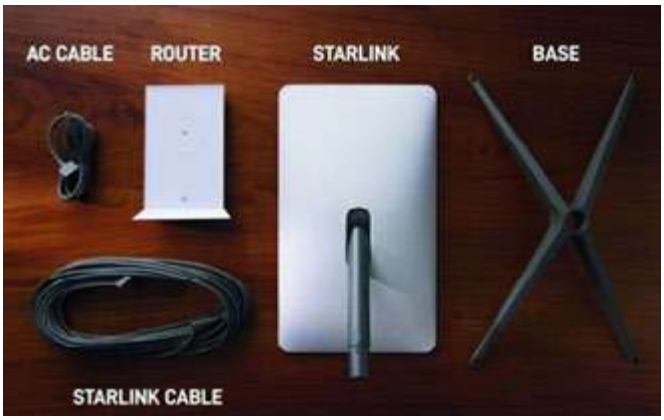
Optical Inter-Satellite Links: Other than the Ku and Ka microwave bands, the newer satellites are equipped with optical communication technology which are more or less just highly precise lasers that are sent between the satellites. These allow for much faster communication speeds within the constellation.

Frequency Selection: It is important for Starlink satellites to avoid interference from other electromagnetic radiation sources like cell towers, radio stations and even other satellites. To achieve this they use a narrow range of frequencies to operate in.

Hall-Effect Thrusters: Satellites at Low Earth Orbit are much closer to the Earth's atmosphere, so they all experience atmospheric drag which lowers their altitude. This happens because the particles in the air hit the satellites causing them to decelerate and drop their orbits. Because of this the satellites need periodic boosts to maintain their orbits. Starlink uses Hall-effect thrusters which use gases like Krypton and Argon to provide propulsion.

Why Starlink?

The most significant and critical application of Starlink is that it allows internet access in places very remote areas where even cell towers won't be available. Unlike with traditional Geostationary satellites, Starlink allows people to experience decent internet speeds even in the middle of nowhere. The only thing they need is a simple kit that is provided consisting of a satellite dish, a dish mount and a WiFi router base unit. This makes Starlink a very useful resource for communities where traditional internet infrastructure is not available or unreliable. With Starlink it becomes possible to access various economic, education, healthcare and other opportunities that were previously thought impossible to access in remote regions of the world.



Besides this, Starlink has recently seen usage is other some other ways -

- **Military:** SpaceX develops military satellites used for missile defense for the American Space Development Agency (SDA). The US military is also testing Starlink for usage in aircraft and in the battlefield for military communications.
- **Russo-Ukrainian War:** Starlink was activated in Ukraine and became an important part for the Ukrainian military's operations such as communication and drone operations.
- **Criminal Use:** It is widely reported that Starlink is used in Southeast Asia to support scam centers.

Why not Starlink?

Impact on Astronomy: Starlink satellites produce a large amount of electromagnetic waves as

they communicate with the ground stations and with each other. These waves are a source of light pollution and are a major concern for astronomers. Astronomers have noticed that when they look through their telescopes these extra electromagnetic waves are picked up as well creating noise and distortions.

Some Astronomers in 2019 observed signal loss and image noise and they were able to correlate it with the transit of a Starlink satellite train.

SpaceX has taken an initiative to reduce the reflectivity of satellites, called albedo, by using 'DarkSat' technology which has experimental coatings and sunshades. However, astronomers have found these measures to be only marginally effective.

Increased Risk of Satellite Collision: A hypothetical scenario called the Kessler Syndrome states that if space debris and a satellite collides with each other it can create a domino effect where more space debris is created which goes on to hit more satellites. This is effectively a chain reaction which eventually makes LEO completely unusable. Experts have said that the huge number of Starlink satellites in orbit creates a risk of causing the Kessler syndrome

Starlink has had multiple incidents of near-miss collisions. Once with a European satellite and another time with a Chinese Space Station. These incidents show that the large number of satellites do have an increased risk of collisions.

SpaceX has claimed that their satellites are safe from collisions, they say that the satellites will maneuver if the probability of collision is greater than 1 in 100,000, which is a more conservative threshold than the industry standard of 1 in 10,000. SpaceX has budgeted for a significant number of collision avoidance manoeuvres per satellite.

FROM CALLS TO CYBERNETICS:

Multimodal AI Redefining Wildlife Surveillance

Jessica Sarah Mathew
5 MSAIM

Multimodality, you might know this word very well, or maybe not. Before we look into its number of exciting applications, let's take a minute to understand what exactly it refers to.

Every day, huge volumes of data streams over the internet, and this data arrives in a wide variety of formats, say images, videos, audio, and text.

All these data types are fundamentally different from each other and each can provide us with their own valuable insights, but the effect is far greater when multiple data types are aggregated, that is as Multimodal Data.

Multimodal Machine Learning takes advantage of these multimodal data types which could be in the form of any combination of images, video, audio, and text. Multimodal ML combines them to produce insights that are much more meaningful than any one data source could be individually.

The ultimate goal of multimodal machine learning is to allow machines to learn through perception, understanding and reasoning in a manner similar to a human being. By combining various data sources, machines can develop a more human-like and richer understanding of the world.

Principles:

As we are dealing with different modalities of data, the heterogeneity of modalities is one of the fundamental concepts. Taking the example of wildlife research, we could be working with a variety of different data types, ranging from images obtained through camera traps to recordings of animal calls and GPS coordinates.

We are able to get a unique perspective of the wildlife under study from each modality. With images we can see the visual attributes and behaviors of species. With audio we can learn about their calls and interactions. GPS coordinates tell us about their movements and habitats.

Scientists have the ability to create a richer description of animal behavior and environmental interactions by combining all these different sources of information.

By analyzing visual data along with GPS data researchers can observe not only where animals travel but also how they move around their habitats. This reveals valuable information about their requirements and difficulties. In addition, modalities are interconnected, having similarity factors that further suggest more about wildlife.

Because we have the ability to aggregate these data types it becomes possible for researchers to refer back to findings and gain deeper insights into the data collected.

For example, analyzing visual data obtained from camera traps with GPS data gives us the ability to understand the ways in which various species utilize their habitats during different times of the day.

Likewise, Analyzing audio records with visual sightings can provide insights into animal behavioral patterns and migratory patterns.

By analyzing these networks of associations researchers are able to investigate ecological relationships in more advanced ways ultimately leading to improved conservation policies.

By understanding the connections between modalities of data available, we can gain knowledge about how species are adapted to their environments and the complex ecological processes involved.

An important concept is that modalities can interact to produce new information that can have a strong influence on task inference. This means that when multiple sources of data are integrated, it is possible that certain insights can be extracted that no one source could have provided independently.

For instance, take the possibilities of merging visual data from camera traps with behavioral data inferred from audio recordings. Researchers are able to create predictive models by merging these two data modalities in order to estimate species behavior in different environmental conditions.

Such information is valuable in determining key habitats and knowing when and where species are most active. This would allow conservationists to target their efforts more efficiently. Multimodal Machine

Learning can be used to improve the accuracy of species identification and give a better estimate of population health overall, eventually enabling us to track the impact of environmental changes more effectively.

Neon Nightmares:

The Hidden Darkness Inside Your Favorite Toons

Koli Ashvita Ashok
5 MCA B

For many of us cartoons were an important part of our childhood. They painted our imagination, offered endless colors of amusement and formed an integral part of our nostalgia.

Courage the Cowardly Dog, Shinchan, Tom and Jerry, and Scooby-Doo all appear innocent at first glance, but under the superficial colors of the cartoons and gentle humor lay some haunting secrets, hidden meanings, and controversies, all which cast a dark shadow on their image.

Reddit users and conspiracy theorists throughout the years have come up with various dark interpretations and real-life spooky experiences connected to the seemingly innocent cartoons we used to watch.

Behind the Screen: The Cartoons They Didn't Want You to See

Shinchan: More Than Just a Prankster?

Fans saw that Shinchan's script had entire sequences and phrases being changed. The show was restricted for its rebellious and unruly comedy.

This led some people to speculate that the show's message was being reshaped rather than the character's antics being simply toned down. According to a far darker version, the narrative of shinchan may have more tragic roots.

A popular myth that was spread online states that the character is based on a true story of a little boy named Shinnosuke. The story claims that Shinnosuke died in Japan while trying to save the life of his sister during an accident.

According to this urban legend, Shinchan was created by Shinnosuke's heartbroken mothers as a way to remember him and imagine a world where he still lives. Fans are still haunted by this unconfirmed story.

Ed, Edd n Eddy: A Never-Ending Afterlife

One of the most disturbing theories out there on this show tells us that the entire cul-de-sac is

supposed to be a form of purgatory, and all the kids are actually dead, stuck in the afterlife forever.

Their distinct time-period clothing styles and the absence of adults are key pieces of evidence that support speculations that they came from different eras and have never truly moved on.

Doraemon: A Dream or a Delusion?

Nobita is depicted as unduly reliant on the latest inventions created by Doraemon, for which Doraemon is often accused of encouraging passiveness. According to a terrifying Reddit hypothesis, Nobita may actually be in a coma and Doraemon's world is just a creation of his mind.

Reddit's Darkest Cartoon Theories: Childhood Ruined

Reddit has been a breeding ground for such spine-chilling theories about classic cartoons for many years now. Fans on Reddit claim that there are actually many disturbing secrets hiding in plain sight, on the shows

Do the Powerpuff Girls Exist?

What if The Powerpuff Girls didn't exist? According to a troubling hypothesis, Professor Utonium created Blossom, Bubbles, and Buttercup as a coping strategy after losing his daughters. His inner demons were manifesting as their antagonists. The trio's abilities defy logic and they also never age, which further heightens the unsettling conjecture.

Johnny Bravo's Downward Spiral

Johnny Bravo is popularly assumed to be a comic relief character and a self-centered womanizer. But according to a little-known myth, he was once abandoned as a youngster which resulted in him having stunted growth. He is stuck in an unending state of teenage illusion since his mother is the only lady in his life and she is quite controlling.

Scooby-Doo: A Post-Economic Collapse?

Fans have often wondered why Scooby and the gang only ever deal with criminals dressed as ghosts and monsters. Some have hypothesised

that in the world of Scooby-Doo there was an economic crash that left former professionals—scientists, professors, and business owners— with no option but to resort to criminal activities.

Another theory suggests that Scooby doesn't actually talk, Shaggy, possibly under the influence of hallucinogens, only imagines their conversations.

Jerry and Tom: An Unending Torture?

Most viewers viewed Tom and Jerry as a show for having good humor and never gave it a second thought, but according to one interesting idea, Tom was always attempting to protect Jerry rather than capture him.

If Tom had never attempted to harm Jerry then his owners may replace him with a more aggressive cat who would, making their rivalry a necessity for survival.

When several episodes were banned due to racial stereotypes and excessive violence, the show's darker overtones were further brought to light.

Cartoons You Loved… or Theories That Ruined Them?

Imagine if the cartoons we watched as children are not as innocent as they appeared to be? Fans have discovered dark secrets and terrifying hypotheses about some of the most cherished animated series throughout the years.

Courage the Cowardly Dog: A Town That Shouldn't Exist

Fearsome enemies resembling characters from famous urban legends, and unsettling visuals were the hallmarks of Courage the Cowardly Dog.

Despite being promoted as a children's animation, its psychological horror components have caused viewers to wonder about its true meaning.

According to a disturbing online theory, Eustace and Muriel, Courage's owners , are actually dead and stuck in a state of limbo where the strange creatures they come across are manifestations of their unresolved concerns.

Another theory provides a different view, where Courage is just a mistreated dog whose heightened sense of danger is a reflection of his fear and suffering. The strange and unusual location of the show—"Nowhere"—could represent the loneliness and the devastation of abandoned animals.

Phineas and Ferb: A Hallucination of Grief?

A disturbing theory holds that Phineas died at a young age because his stepfather killed him, and Candace, who couldn't handle the harsh reality, makes up stories about his daily exploits and inventions. According to this hypothesis, Perry represents an invisible force that keeps her stuck in her illusion, while Dr. Doofenshmirtz represents her fractured view of reality.

Ultimately what do you think? Was there always more going on beneath the surface, or were these merely fan theories that were overblown? Despite their appearing impossibility, these theories point to an unnerving possibility: that the cartoons we loved had deeper meanings.

Were we being shown something deeper, something we would never really comprehend, or were they just fun adventures?

NEON-SORT:
AI-Driven Waste Segregation in a Dystopian Future

Koli Ashvita Ashok and Shivangi Agarwal
5MCA B

The management of waste is a significant environmental challenge that affects the entire world. It is mainly due to the inefficient segregation processes. Traditionally this process is done manually which is both inefficient and prone to errors.

There is also a lack of knowledge on the correct methods of segregation which adds to the problem, and recyclable waste is often sent to landfills because they are contaminated by the other wastes which is an unnecessary wastage.

In recent years, artificial intelligence has been proposed as a potential solution to automate and enhance waste sorting and disposal.

EcoSort is an application that aims to provide sorting and disposal guidance by using AI based image recognition. This application is designed with FlutterFlow for simplicity of use, and Firebase for storing data and real-time processing as the backend.

EcoSort also integrates with Google's Gemini to provide an easy, real-time waste classification system that maximizes the efficiency of waste segregation. The technical details and the impact of EcoSort on modern waste management are discussed in this article.

EcoSort: AI-Based Waste Classification System

The main goal of EcoSort is to simplify the waste segregation at the community or household level. The app uses AI to scan images of waste and classifies the waste items as recyclable, compostable or non-recyclable.

The app goes further by recommending disposal strategies based on India's waste management policy.

The core components of EcoSort are:

1. Image Classification and Processing: The user is provided an option to upload images or take a picture. This is then processed by Gemini API to identify the material makeup and classify it accordingly.

2. Cloud-Based Database: Firebase is used in the backend, it takes care of user authentication, waste classification history, and tracking user activity.

3. Scoring System: The application has a scoring system that encourages users to sort waste by giving points for proper disposal and fines for incorrect sorting.

4. User Awareness and Engagement: The application promotes proper waste disposal behavior with its

educational blogs and social interaction functions.

Technical Deployment

EcoSort's architecture is a combination of multiple technologies, designed carefully to optimize performance and scalability. The core technological elements of the application are:

- Frontend Development: Built using FlutterFlow, used to create an interactive and responsive mobile app user interface.
- AI-Based Image Recognition: Google's Gemini API enables real-time waste identification for enhanced accuracy in separation.
- Backend and Data Storage: Firebase allows for secure data storage, provides authentication, and real-time tracking of waste disposal activity.
- Scoring and Feedback System: Users are provided with real-time feedback regarding their waste segregation efficiency which is to encourage better disposal behavior

Results and Performance Measurement

The performance of EcoSort was tested in various real-life scenarios to determine its classification rate and user engagement. The application successfully identified and classified a wide range of wastes with high accuracy.

Key Findings:

- Good Classification Rate: The AI model demonstrated over 90% accuracy in identifying waste materials and suggesting proper waste disposal.

- User Engagement and Participation: The community outreach and blog components were shown to increase user participation in sustainable waste management practices.
- Reduction of Misclassification: Users reported significant decreases in their waste disposal behavior which leads to less contamination of recyclables.
- Scalability and Performance: Firebase's cloud infrastructure enabled smooth performance with real-time updates and efficient data processing.

Challenges and Future Improvements

Although EcoSort has been an immense success, some issues were identified that still need to be worked upon to enhance it further:

1. Dataset Generalization: To increase the AI model accuracy it would require a large and varied dataset on different regions and types of wastes.
2. Real-Time Processing Limitations: Handling multiple image uploads in one go may cause lag, so backend services need to be optimized further.
3. Region-Specific Waste Regulations: The app is currently compatible with Indian waste regulations, but implementing elsewhere requires local dataset training.
4. Lighting and Object Occlusion Issues: The AI image recognition needs to be capable of handling poor lighting or occluded objects as they can affect accuracy.

To address these concerns, future work will focus on:

- Improved AI Model Accuracy: Diversifying datasets and refining classification techniques to raise accuracy in varying conditions.
- IoT Device Integration: Integrate IoT devices on waste bin to create a smart bin technology that can automate the segregation and disposal process.
- Collaboration with Government and Municipalities: Coordination with municipalities to integrate EcoSort into municipal waste management systems.
- Multi-Language Capability: Adding support for more languages to make EcoSort accessible to more people.

Conclusion

EcoSort automates waste classification and

disposal recommendation, the app promotes right disposal habits, reduces wastage in landfills, and optimizes recycling rates. All of this makes it a significant step towards the application of AI for green waste disposal.

Google's Gemini API along with Firebase's robust cloud infrastructure enables EcoSort to become a reliable solution to the waste management needs of today's times.

With additional innovation, EcoSort can revolutionize waste sorting at the individual and municipal level. With enhanced functionality solving existing problems, and extended functions, the app can contribute its share towards a greener, cleaner future.

AI-based waste management apps such as EcoSort provide the vision for a cleaner, greener future through minimizing waste contamination and enhancing recycling processes.


Phantom
Palette
Artwork

Pranab Rai
5 MCA A

Triny Christopher
5 MCA B

Achindra Sharma
2 MCA A
Title of Work: A Study of Punpun

Description: *This page in my sketchbook is an art study of Inio Asano's tremendously poignant manga, Oyasumi Punpun. I wanted to study the emotion and the fun, open yet overwhelming atmosphere of the work with a few ink sketches.*

I wanted to capture the contrast between Punpun's simple, bird-like form and the miraculous, god-like characters that change the course of his life.

The energetic, almost chaotic line work was intended to pay homage to Asano's way of capturing the feeling in his work; and this series conveys strong and extensive emotions such as serious anxiety and depression.

Roshni Varghese
2 MSAIM

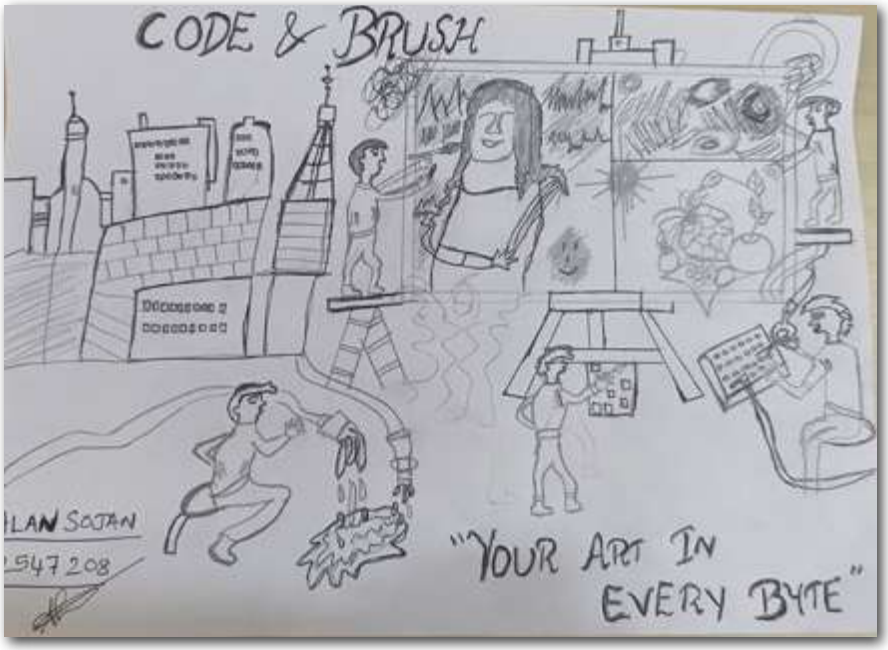
Bhagyasree Roy
2 MCA A

Description: *This piece of art is a colour pencil drawing of a hand making the peace sign that has been reinterpreted from a cyberpunk perspective. Future neon aesthetics and the blurring of the lines between technology and humanity served as inspiration for the metallic, dripping textures. It demonstrates how brittle peace is in a cyber-driven society where strength and vulnerability coexist. The shimmering surfaces and liquid-like texture symbolize how digital realities change our ideas of togetherness and resiliency.*

Kusuma H K
5 MCA A

Ann Mariya ST
5 MSAIM

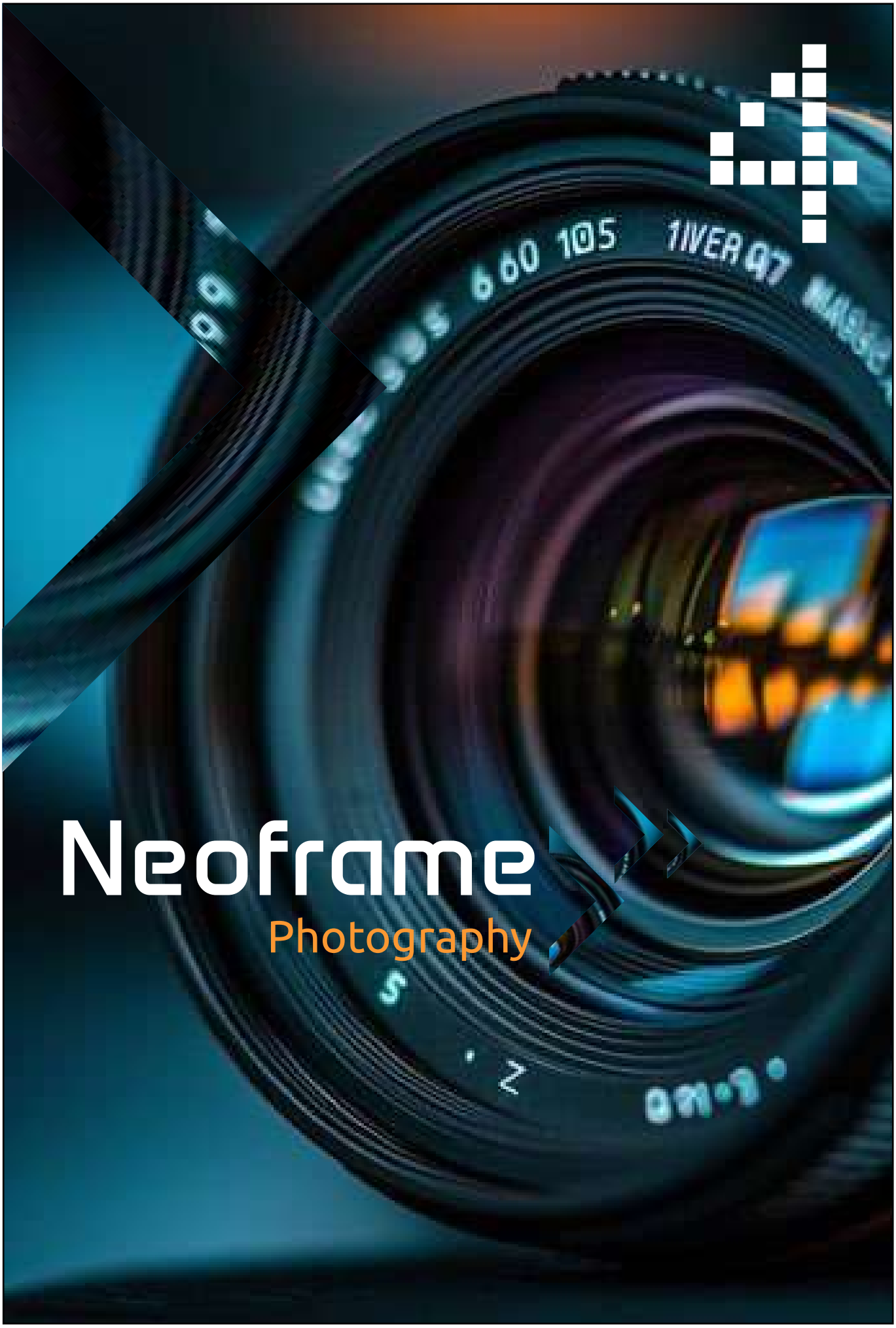
Darshan Pundlik Heble
2 MCA A



Alan Sojan
2 MCA B
Caption:" Your Art in every byte"

Nejiya K S
2MSAIM

Marita
5 MCA A
Caption: Wired for Tomorrow


Neoframe
Photography

Anurag Chowdhury
2 MSAIM

Description: *Quote for photo - "True happiness blooms in the simple moments — when giving meets receiving, and trust bridges the gap between two souls."*

Naman Sethia

5 MCA B

Title - Symmetry of perspective

1. Sunset Sky

Standing your ground even in the face of darkness. The only light in the sky is indicative of growth and maturity and reminding us that strength is formed when you blaze your own path. It's also tied in with the standing kind of peer circle, or reminder that real individualism comes when you learn to stand out, but stand there.

2. Sunlight Through Trees

The sunlight filtering through thick branches represents the human quest for clarity. Life tends to be muddled and unclear, but we struggle onward in pursuit of meaning. This photo captures determination—the refusal to give up even in times of disorder and confusion.

Harshit Chabria
2 MSAIM













Pratham Jain
5MSAIM

stphilomena_cathedral

Title: At times you need to climb high to get good views.

Dangerous whisper of Wild

Black buck or black beauty??

Title: Python but not coding….

The sleeping predator

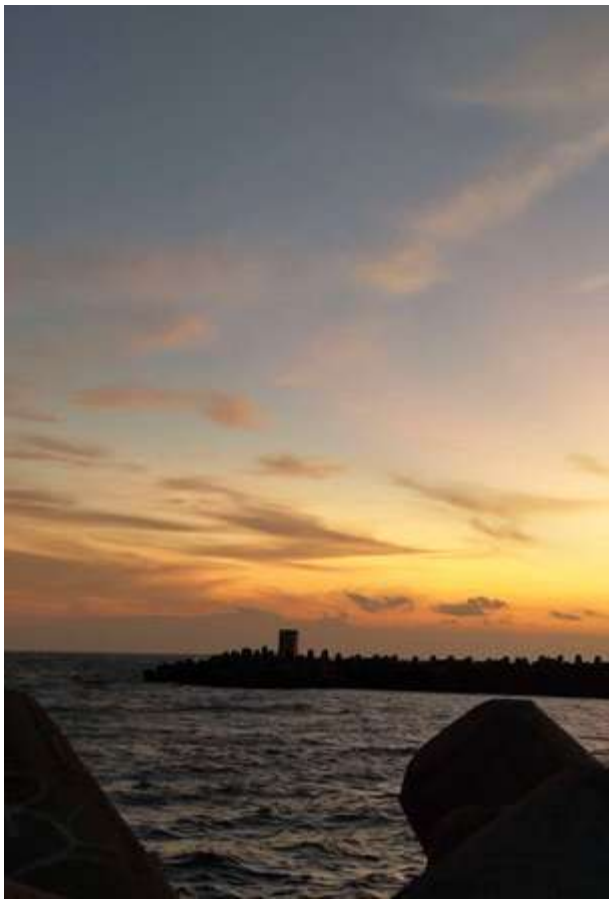
The sleeping predator

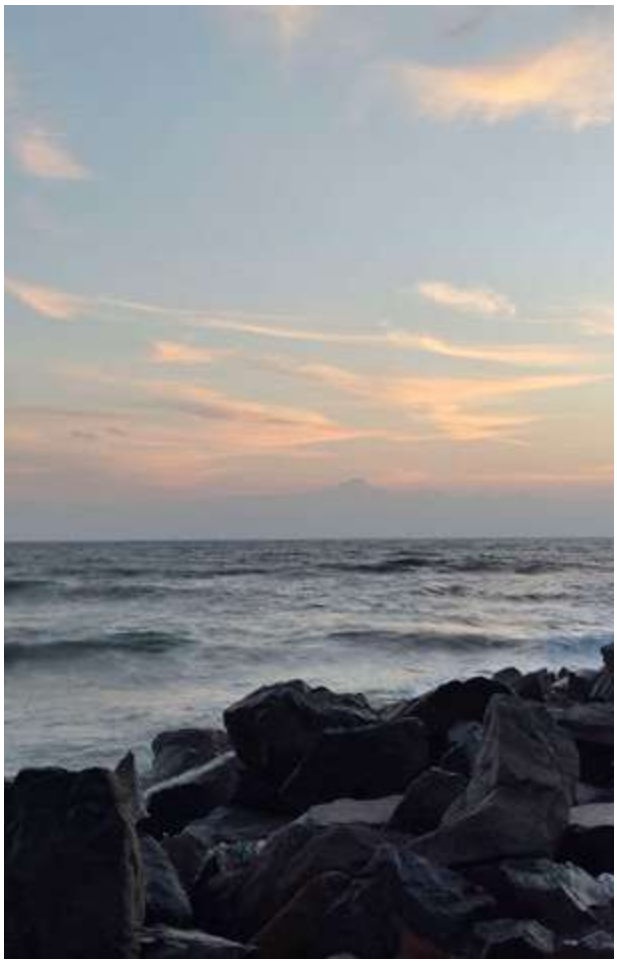
Title: Don't go on this innocent face….It's dangerousss

Tushar Mahajan
5 MCA A

Shawn Biju Thomas

Ms. Anupama B Nagarale
Teaching associate | Department of Computer Science



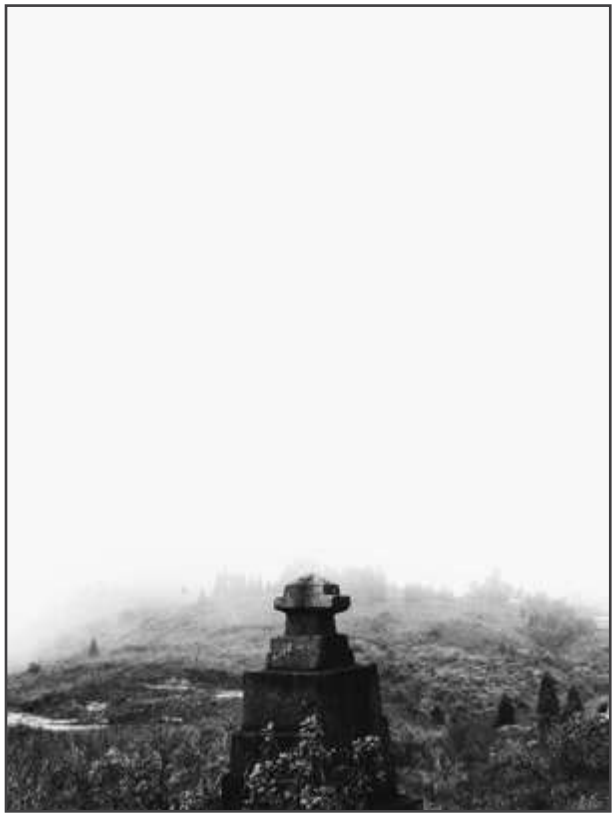


Yeswanth S
5 MSAIM

Description: *This place is my safe haven.*

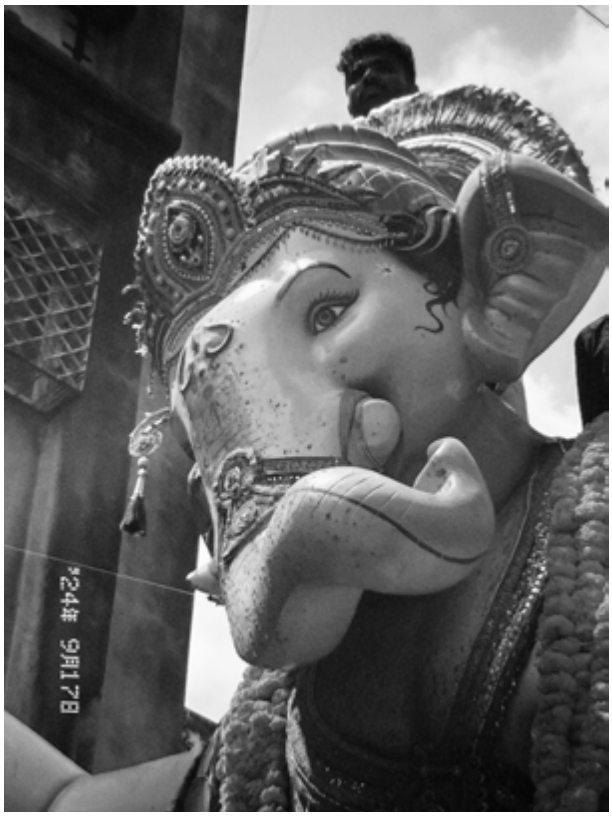
Whenever I feel low I come here to sit quietly, watch the waves, and let the sound of the sea calm me down.

Just being here surrounded by the sky and the ocean, makes me feel at peace.



Dave Vanlalchhuanga Sharma
5 MCA B

Title: Hot kitty summer



The Divine Gaze

Grace in the Palm

Royal Views

Serenity on the Ganges

Artist Statement

From my perspective, I capture transitory moments that embody tradition, tranquility, and the beauty of being present, exploring cultural celebrations, natural landscapes, and urban life in these images — all of which tell their own unobtrusive story.

Kapadia Ram Kalpesh
2 MSAIM

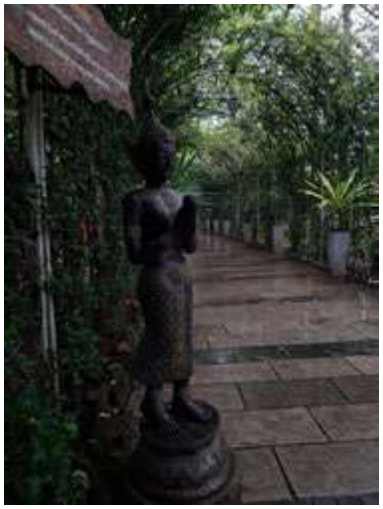
Sandra Benny
5 MCA A

Aadharsh Krishnaa G
2 MCA B

Sujay Sharma
5 MCA A

Ayur Dekate
5 MCA A

Yash Sharma
5 MCA A



Neha N
2 MCA A

Aditya Gujar
5 MSAIM

Shakthivel GS
5 MCA A

Sumith Meena
5 MCA B

Short Description:

I love to take pictures that have a cinematic feel because I am an enthusiastic photographer. Every frame, in my opinion, is a tale waiting to be told rather than just a photograph. I like combining photography and filmmaking to produce images that are striking, poignant, and powerful. The objective is to use a perspective that sees beyond the ordinary to turn ordinary moments into enduring memories.



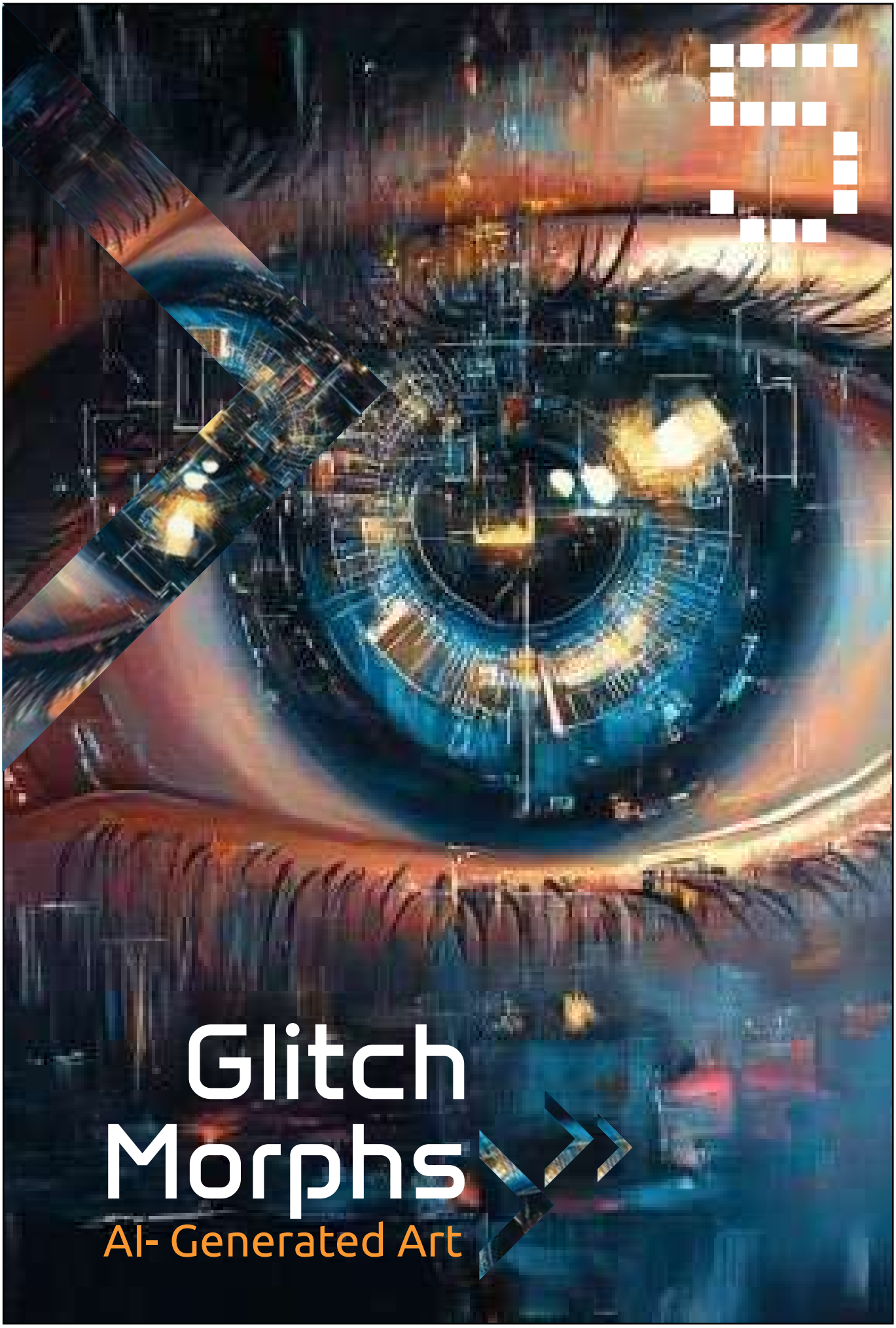








Nilesh Gupta
2 MCA A


Glitch
Morphs
AI- Generated Art

Alan Joseph Abraham
5 MCA A

Nayana K Benny
2 MCA A

Nitish Churiwala
5 MCA B

Description:

In the illustrations, the characters from the Avengers enjoy a traditional Indian Garba. Garba is a lively and full-of-life dance form popular around the Durga Puja time. The goal I had was to make a scene that seemed plausible, funny, and rich in cultural significance using recognizable characters in a festive scene from India. This image shows the Avengers dancing Garba in a beautifully decorated Indian environment, surrounded by an energetic crowd and traditional details, capturing the true essence of the dance.

I think these images provide a distinctive mix of popular culture and traditional art, showcasing the creative possibilities of AI

Code Crypt

Puzzles, crosswords and riddles)

Climate Riddles

1. I'm invisible but you feel my power,
   I spin the storms and bring the shower.
   I carry seeds and sailing ships,
   From mountain peaks to ocean dips.
   What am I?
   Answer: Wind

2. I'm cold and white, I fall from sky,
   But when I'm gone, the rivers cry.
   I blanket mountains through the year,
   But warming makes me disappear.
   What am I?
   Answer: Snow/Ice

3. I rise each day without a sound,
   My golden rays reach all around.
   I power plants and solar cells,
   But too much heat the planet swells.
   What am I?
   Answer: The Sun

4. I'm made of drops but I'm not rain,
   I float up high through sun and pain.
   I bring you shade and bring you storms,
   I come in many different forms.
   What am I?
   Answer: Clouds

5. I breathe in what you breathe out,
   I clean the air without a doubt.
   I shelter birds and give you shade,
   But I'm being cut down, I'm afraid.
   What am I?
   Answer: Trees/Forest

Medium Climate Riddles

6. I'm a blanket made of gas,
   Around the Earth I form a mass.
   I trap the heat but let light through,
   Too thick and Earth gets warm like stew.
   What am I?
   Answer: Atmosphere/Greenhouse gases

7. I'm colourless, I have no smell,
   From cars and factories I swell.
   I trap the heat within the air,
   Making temperatures rise with care.
   What am I?
   Answer: Carbon dioxide

8. I come in spirals from the sea,
   With winds that howl wild and free.
   I'm getting stronger year by year,
   As ocean temperatures I fear.
   What am I?
   Answer: Hurricane/Cyclone

9. I'm frozen water, white and thick,
   But warming makes me melt quite quick.
   I float on seas both far and near,
   My melting makes the sea levels rear.
   What am I?
   Answer: Glaciers/Ice sheets

10. I'm made of coral, bright and grand,
    An underwater wonderland.
    But warmer seas make me turn white,
    I'm losing my colorful sight.
    What am I?
    Answer: Coral reef

Hard Climate Riddles

11. I'm a cycle that goes round and round,
    In oceans deep, I can be found.
    I carry heat from place to place,
    But changing patterns slow my pace.
    What am I?
    Answer: Ocean currents

12. I'm frozen ground that never thaws,
    In Arctic lands without a pause.
    But warming makes me start to melt,
    Releasing gases that are felt.
    What am I?
    Answer: Permafrost

13. I have no shape, I have no form,
    I make the planet nice and warm.
    I bounce from Earth back to the sky,
    But trapped gases make temperatures fly.
    What am I?
    Answer: Heat/Thermal radiation

14. I'm measured in degrees so small,
    One or two can change it all.
    I'm rising slowly, year by year,
    Making droughts and floods appear.
    What am I?
    Answer: Global temperature

15. I'm ancient sunlight stored below,
    In liquid form, I help things go.
    But burning me fills up the air,
    With gases that show climate's despair.
    What am I?
    Answer: Fossil fuels

Tricky Climate Riddles

16. I reflect the sun's bright light,
    Keeping Earth cool and bright.
    But when I shrink, more heat stays here,
    Making warming crystal clear.
    What am I?
    Answer: Ice (albedo effect)

17. I'm feedback that makes things worse,
    Like nature's own climate curse.
    The more I happen, more I grow,
    Making temperatures higher flow.
    What am I?
    Answer: Positive feedback loop

18. I'm invisible to naked eye,
    I trap much heat up in the sky.
    I'm stronger than CO2,
    From farms and landfills I break through.
    What am I?
    Answer: Methane

19. I'm what scientists track with care,
    The average of our world's hot air.
    Compared to times long past I'm high,
    Making glaciers say goodbye.
    What am I?
    Answer: Global temperature anomaly

20. I'm nature's own thermostat,
    But humans have changed where I'm at.
    I used to keep things nice and stable,
    Now extreme weather I enable.
    What am I?
    Answer: Climate system

Xavier Amith J
2 MCA B

Climate Jokes, Wordplay, and Puns

1. Why do climate scientists never experience cold?
   Because hot air is always around them!

2. When the glacier was melting, what did it say?
   "I'm going through a rough patch!"

3. For what reason was the carbon dioxide sent to therapy?
   The pressure was too great!

5. Why do hurricanes never experience loneliness?
   Their eyes are always on the road!

6. What was said between the two solar panels?
   "You make my life brighter!"

7. What caused the wind turbine to feel lightheaded?
   All day long, it had been spinning!

8. What is the most popular pickup line on Earth?
   "Are you carbon dioxide? Because you make me gasp!"

Jokes about the weather and temperature

10. What caused the thermometer and barometer to separate?
    Their relationship was under too much strain!

11. How did the hot air communicate with the cold air?
    "You're bringing me down a lot!"

12. Why do polar bears never receive tickets for speeding?
    since the ice caps are melting everywhere!

13. What distinguishes climate from weather?
    Climate change is unavoidable!

14. For what reason did the snowman contact his attorney?
    His concern was liquid assets!

Jokes about the Environment

15. Why do trees never pay taxes?
    They never emit carbon!

16. What was the beach told by the ocean?
    "Nothing, it simply waved... and continued to rise!"

17. For what reason did the fossil fuel attend school?
    to earn an ancient history degree!

18. What is the favorite dance of a recycling bin?
    The can-can!

19. Why do electric vehicles never tire?
    They are constantly charged!

20. How did renewable energy respond to fossil fuels?
    "I'm the future—your time is up!"

Jokes about Science

21. Why aren't climate models invited to parties?
    They're constantly making predictions about the end of things!

22. What is the favorite game of a greenhouse gas?

Heat and hide!

23. What made the ozone layer feel excluded?

There were too many gaps in its narrative!

24. What is the term for a climate scientist who exercises?

Someone who researches both cooling and global warming!

25. What prevents volcanoes from being effective climate activists?

Their carbon footprint is excessive!

Funny Climate Jokes

26. Which social media site is the most popular on Earth?

Instagram... since it adores all of the green posts!

27. Why did the person who denied climate change bring a ladder to the shore?

to observe the rise in sea level!

28. What was the therapist told by the melting ice cap?

"I feel like I'm breaking down!"

29. Why do penguins never get lost?

Because, while they can, they always know which way is south!

30. What kind of music appeals to tornadoes the most?

Anything with a clever twist!

Dad Makes Climate Jokes

31. I made a joke about global warming to my dad.

It was too hot, he said!

32. Why are there never any parking tickets for climate scientists?

They know a lot about carbon dating!

33. In the Arctic, what do you call a bear that has no teeth?

A gummy bear—it's most likely swimming!

34. For what reason did the solar panel visit a physician?

It didn't feel very hopeful!

35. What do you like best about jokes about renewable energy?

They never grow old!

A Few Lines

38. I wear size 13 shoes because my carbon footprint is so large.

39. I attempted to joke about the rising sea levels, but nobody found it funny.

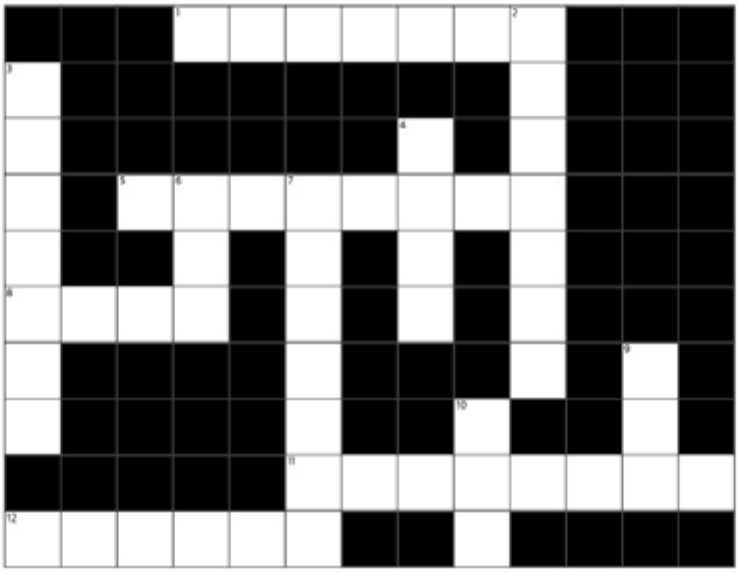
40. The only people who can forecast the weather for 50 years, but not for next Tuesday,

are climate scientists.

Xavier Amith J
2 MCA B

Crossword

9/15/25, 9:02 AM Create Crossword Puzzle - Online, Free and Interactive - Puzzel.org



across

1 Malicious software designed to damage or exploit systems

5 A network security device that monitors and controls incoming or outgoing traffic based on rules.

8 A volumetric attack that overwhelms targets with traffic.

11 A fraud technique where attackers impersonate trustworthy entities to steal data

12 Network of compromised machines under attacker control

down

2 Code or technique that takes advantage of a flaw in software to gain unauthorized access

3 A vulnerability that is unknown to the vendor or unpatched — often exploited by attackers

4 A short fixed-size output produced from input data, used for verifying integrity

6 System that detects intrusions in networks or hosts

7 The process of converting plaintext into ciphertext to prevent reading by unauthorized parties

9 Secure private tunnel used to connect to networks over the internet.

10 Standard protocol predecessor to TLS used for securing web traffic

			1 M	A	L	W	A	R	2 E			
3 Z									X			
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R		5 F	6 I	R	7 E	W	A	L	L			
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Aniruddha G K
5 MCA A

Riddles

1. The Binary Secret
I speak only in twos,
yet I build the world you use.
With just on and off, I play my song,
Without me, your code goes wrong.

2. The Invisible Traveller
I travel at the speed of light,
yet I have no legs in sight.
I carry voices far and near,
without me, no call you'd hear.

3. The Eternal Student
The more I learn, the more I grow,
feeding on data, row by row.
I'm not alive, yet I can "train,"
predicting patterns again and again.

4. The Puzzle Box
I lock your words in a secret way,
so hackers can't steal what you say.
With keys I work, though not of doors,
protecting emails, files, and more.

5. The Paradox of Sharing
The more of me you give,
the more of me you have.
I spread without thinning,
what concept do I give?

6. The Digital Ghost
I have no face, no hands, no feet,
but follow you through every tweet.
You may log off and walk away,
but I remember where you stayed.

7. The Keeper of Time
I tick without a sound,
I'm everywhere around.
From CPUs to your phone's beat,
without me, nothing runs neat.

8. The Endless Loop
I keep walking forward but never reach the end,
going round and round, I cannot pretend.
In a coder's world, I bring them dread,
for when I show up, their programs are dead.

9. The Hidden Path
I'm the secret road that no one can see,
yet I link the whole world silently.
Tiny messengers race along my way,
delivering words, night and day.

10. The Thinking Glass
I reflect your thoughts, yet not your face,
I solve your problems in cyberspace.
Without me, logic falls apart,
I'm the scientist's trusted art.

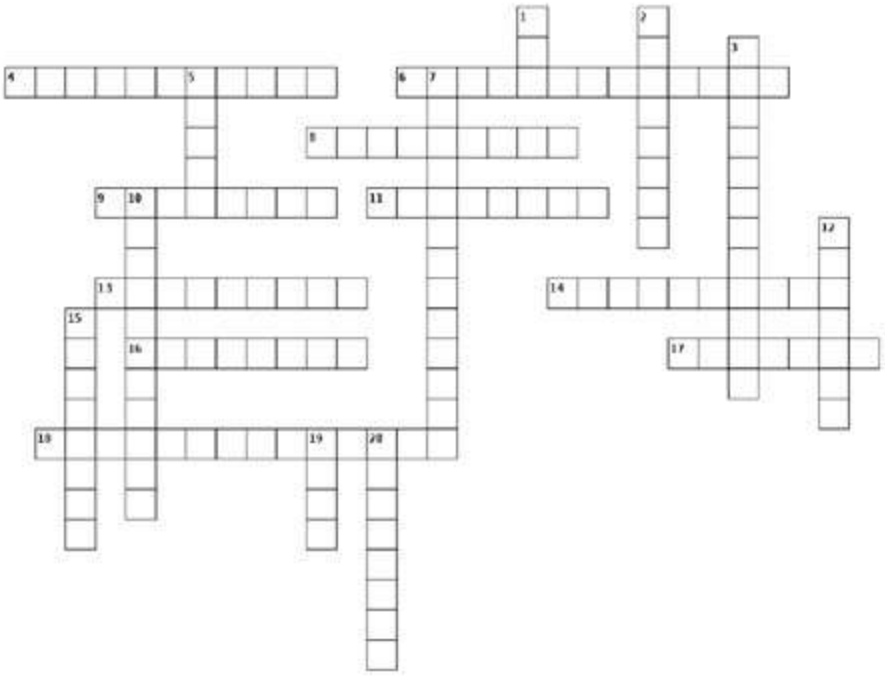
Answer Key

1. Binary (0 and 1)
2. Electromagnetic Waves (Wi-Fi/Radio signals)
3. Artificial Intelligence / Machine Learning model
4. Encryption
5. Knowledge / Information
6. Digital Footprint
7. Clock / System Clock
8. Infinite Loop
9. Computer Network / Internet
10. Algorithm

Arjit Singhal
2 MCA-A

Crossword

Debug.exe



Across

4. Hiding implementation details and showing only functionality

6. Wrapping data and methods together in OOP

8. Step-by-step procedure to solve a problem

9. Security system that monitors and controls network traffic

11. State where processes wait indefinitely for each other

13. A function calling itself

14. Amount of work done in a given time

16. Rules governing data communication over networks

17. Technique to map data of variable size to fixed size

18. Running multiple OS instances on the same hardware

Down

1. Theorem about Consistency, Availability, and Partition tolerance

2. Splitting a database into smaller, faster parts

3. Ability of an object to take many forms in OOP

5. Small, fast memory close to CPU

7. Process of reducing redundancy in relational databases

10. Executes code line by line without prior compilation

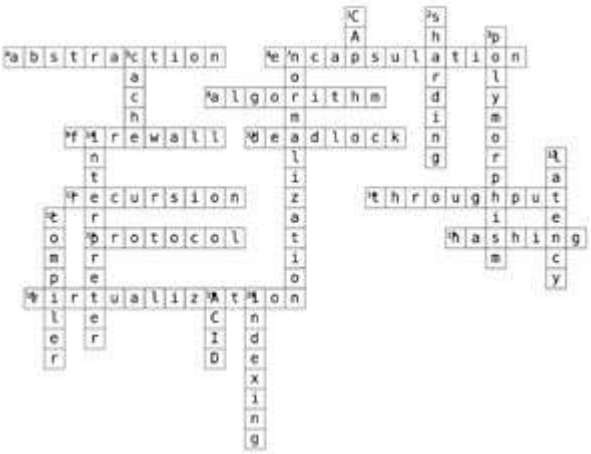
12. Delay between request and response in a system

15. Translates source code into machine code

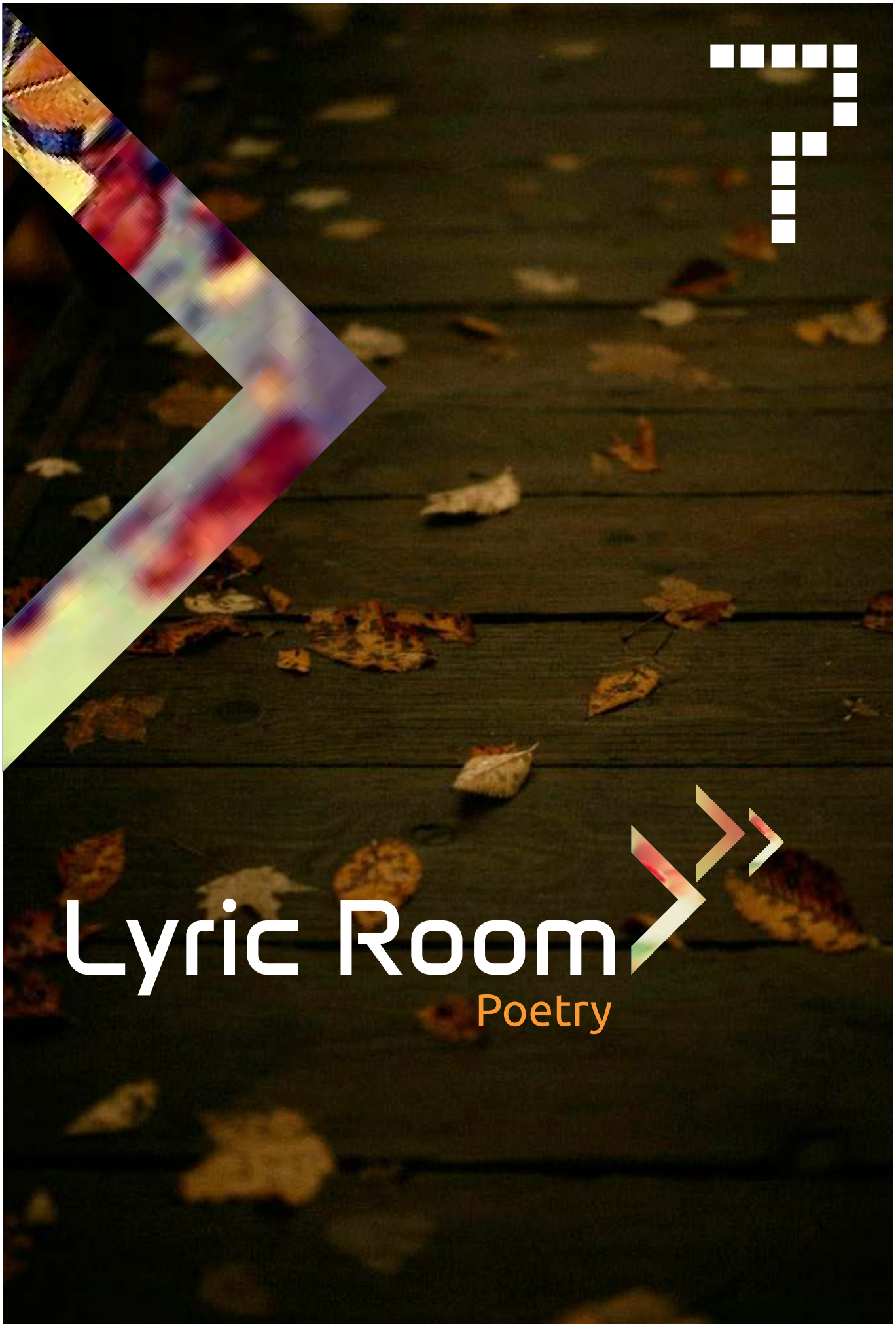
19. Set of properties ensuring reliable database transactions

20. Technique to speed up searches in databases

1/1



Nandini Singh
2 MCA A


Lyric Room
Poetry

Vaibhav Tomar
5MCA A

Master of Masquerade

I like to write a few lines and put up a charade of a poet,
But ever so often, I get tired of the latter and masquerade as a painter.
I stand still in front of the white plaster canvas,
Its emptiness excites me with its endless possibilities,
But when I look down at the broken brushes in my hand,
I realise that no matter the talent in my hands,
or the infectious and insidious ideas firing in my brain,
The broken brushes, brush all of them down the drain.

I gather the bristles to forge a brush only I can hold,
paint a picture to tell a story that's never been told.
Blue strokes for my morose room, each for a thought I drowned,
with an azure boy against the walls, vanishing with every glance,
shades of brown whisper, bruises blooming in places paint should never go,
with monsters who don't hide in grey shadows under the bed,
They sit with him and keep him fed.

With every glimpse, the boy became harder to see,
his outline blurred into nothingness, nowhere to be found.
All that's left is an empty room.
Its whiteness is no different from where I began.

Dr. Tegil J John
Assistant Professor
Dept. of Computer Science

In The Shadow of My Mentor

He walked each day with vigour and hope.
A flame of passion he could never conceal.
His words seem sharp but were just and true.
Just to mould them to be strong and brave.

His voice was firm with values and ethics.
He urged them to the path of wisdom.
His whispers were spread too cold.
But they never saw his heart of gold.

No praise was sought, nor a crown of fame he seeks.
He just wanted to see mentees successful in life.
The warmth behind the strictness was unseen.
His care still echoes in each classroom he has been.

True love is not just the buttering words.
It's only the sternness that shaped their destiny.
A mentor is a true treasure and gift from God.
Who can guide countless souls to the light.

Siddhant Deora
5MCA B

The Pursuit of Excellence

Ever wondered, after achieving the goal you set,
The urge to try something new goes down drastically.

The grand effort you poured into reaching it,
It could have been done with just 20% of the energy.

The importance and the meaning you gave that goal,
They were not exactly what you thought.

At this moment, you forget to consider one important thing,
Your journey to achieve the goal.
All the effort you put in,
That made you confident,
Change the way you look at yourself.
And when you finally came on stage,
It was actually nothing for you.

Now, for a moment, remind yourself of the person you admire the most.
Think about what it is you truly admire in them.
Then ask yourself —
Would you still admire this person?
If they had stopped after achieving just one big goal?

And to answer your question about what made you admire him the most —
It was his pursuit of everyday excellence.
His mood did not matter,
What was on his mind did not matter.
He simply chose to do it,
No matter what was happening around him.

The whole concept of life lies in this —
When a new day begins,
No matter what you achieved in the past,
Do you choose to pursue excellence?
And embrace every challenge that comes your way?

Jai Pareek
2MCA B

No, I don't speak I just stay still,
Swallowing storms with iron will.
They come to me with shattered hearts,
And I stitch their pain in quiet parts.

They cry, I listen never break,
Carry their sorrow for my own sake.
A silent saviour, a ghost in light,
Who hides his tears deep in the night.

But when they say, "You can share too,"
I smile fake like I always do.
Cause I've learned love is a fleeting sound,
It leaves you cold when no one's around.

So don't you dare ask how I feel,
This wound I bear will never heal.
If I should rest my head someday,
I fear I'll fall... and fade away.

Kartik Dewnani
2MCA A

Me

Who is the most devoted friend I have?
To whom is there to carry this question I have?
I will inquire of the one that is not there,
The voice within that whispers if it really cares.

(Conscience)
Come, speak to me, walk through this life,
Through every shadow, through every strife.
I have been there, I have been in joy and despair,
A breath in your soul and whispers in the air.
Let me talk to you about the doubts that hide,
Let me be the sunshine after the rain has cried.
O, will you not trust in me?
For I am the truth that will set you free.

(Me)
O tireless friend, awake through the night,
You are my flame, you the source of my light.
Judge of the truth, so patient, so wise,
The star of my life that will never die.

R.Karan
2MCA-B

The brightest star in endless space, A lonely, distant, burning fire, Grows dim when I behold your face, And see the smile that I admire.
The finest art the world has known, On canvas, or in halls of stone, Is but a shadow, overthrown
By the deep beauty in your eyes alone.

Chris A Samuel .G
2 MSAIM

'Beyond the Dust'

From dust to dust,
Your dreams and plans,
Dead outside, yet alive,
Asleep, to a new reality,

A ticking clock, a life so brief,
The little moments that make memories eternal,
To lose is pain, to snooze is vain,
Now this remains, your character unweathered.

The small things were never small,
The large stuff didn't matter at all,
One day we'll meet at heaven's gates,
You are never gone; your soul lives on.

Pasala Varshitha
2 MSAIM

In God's Hands

She grew up in a world small, yet safe,
Bound by love, but edged with chains.
Every step is a measured path,
Every dream held back by reins.
A heart that whispered, "Let me fly—
to know what life beyond holds."
She longed for the distant, foreign skies,
A master's dream, a crafted view.
But once she left that sheltered space,
The world fell apart, broad and harsh.
A ferocious and spiky roller coaster,
Doubt started to travel in dark clouds.
Her days were darkened by stress and darkness.
Her spirit was terrified and her mind was racing.
The hold of anxiety, the tearful evenings, and the unwavering weight of depression.
Her hands, however, were too far away.
reached out in a friendly, close, and comfortable manner.
Her path was lighted by her parents' voices.
Her mind was eased by their constant presence.
She looked up, where grace is unrestricted and mercy flowing, in shaky faith.
She achieved the peace of her soul by entrusting her troubles to God.
Now, gratitude for victories in fight crowns every breath and stride she takes.
Because the suffering wasn't in vain—
It led her closer to the Son.
All glory to the Lord she gives,
Who healed her heart, who stayed her own.
Through storms, through tears, through shattered night,
She rose, but not by strength alone.

Sheethal T Kochery
2 MSAIM

I never knew what her
eyes wanted to hold
Nor have I ever noticed what
her heart wants to
bury
All I heard was a
whisper, a whimper
from
her soul, one past and
forgotten.
Sneaking into the
imminent she once
sang
“That fall I’ll fly, that fall
I’ll flee to the
unknown, to the
unfixed
with the breeze in the haze
Passing the mansions
and
the main
Chasing the glare and
the
blair
Arriving at the doom and
the
gloom
That fall I’ll fail, the fall
I’ll fade.”
Now, clinging to those
flying reminiscences
And waking past the
falling autumn leaves
I left her behind in
silence one more time

S P Sooryananda
2 MCA A

The Journey

The road we walk

We start as whispers in the gentle breeze.

Exciting dreams, with childish ease.

The road ahead, both bright and long, **we stumble, fall, yet stay strong.**

The path we chose is never clear.

It twists, turns.

The happiness we seek is often found in small victories.

Not all days are filled with light; there’s darkness too, and endless fight.

But t**hrough the stone we find one way** and grow with every step we take.

The road to growth is tough, but true.

A Journey made by me and you .....

Aditya Sharma
2 MSAIM

My euphemism of eternal love.

Is it all a fallacy when people say that they perceive love?

The kind that great authors talk about,

Captivating, the kind that chains your sorrows stout,

Keeping you grounded and above.

I felt it once, in the eyes of dusk,

Though when dawn arrived,

Lingering darkness thrived,

Did that love withstand the pain and preserve its husk?

These questions furrowed deep,

Answers to them even below,

If there is one thing I know,

The love I observe and keep never leaves.

It remained as the only star, though it stayed,

Lit up my sky when heeded,

And at the moment, the only wind I needed,

So is it all a fallacy? I hope not, and that's what I prayed.

Emima
2MCA B

My Dearest Mom

In your arms, I find my strength,
In your words, I find my voice,
With your love, I walk great lengths,
Forever, you remain my choice.
More than a mother, you are my guide,
My confidante, my closest friend,
With every step, you stay beside,
And lift me up when I descend.
For every tear you gently wiped,
For every smile you freely shared,
Through storms of life, you never swiped
Your care away—you always cared.
Your patience taught me how to grow,
Your courage showed me how to stand,
Your gentle heart has helped me know
The meaning of a helping hand.
Through sleepless nights and endless days,
Your love has been my steady light,
Your voice has led me through the maze,
And made the darkest moments bright.
No words can truly capture all
The warmth and wisdom that you give,
But in my heart, you stand so tall,
For you've shaped the life I live.
Forever grateful, I will be,
For all the love you've given me,
My dearest mom, my guiding star,
I carry your heart wherever you are.

Aadharsh Krishnaa G
2 MCA B

Silence of Pain

It was Thursday night
With the city lights alight
Went to her with all his might

Oh, she was looking like pure charm
He was nervous from the start
And then his heart found at last the calm

The cloudy sky, alike his mind
He could see her through a thousand droplets
The water sprayed, as he gazed

He'd give his soul to be by her side
She turned to him and waved
He saw her smile and glow

He had died a thousand times
He felt as though he had done a crime
Then he saw her looking through him
Like an arrow cutting into him

She kept on pacing and got near him
And then whispered, "Excuse me,"
She got past him and ran ahead

Seeing another, he felt the dread
They took her into arms and she fell within
He saw her smile and took it all in

Yearning and hurting
On the outside, smirking
He met his quiet demise but yet moved on

Kartik Dewnani
2 MCA A

1. What is love?

Love is not affection, nor a fleeting delight,
Not care, not comfort, not bargains in sight.
We feel it, we name it, yet miss what it is—
Love is a breath, a silent abyss.

Love is the faith that no doubt can shake,
A fire that gives, yet asks not to take.
It flows without borders, without a demand,
A gift of the heart, not a trade of the hand.

Love is for people, for creatures, for skies,
For a purpose far higher than worldly ties.
It is not just felt—it is chosen, it's made,
A state of being that will never fade.

When you love, you ask not for gain,
You give what is true, through joy or through pain.
Love may demand even life as its due—
Can you live for a cause you would die for, too?

Love is not two, but three—you, me, and the sky,
A lesson to learn before the day we die.
For love is not natural; it must be grown,
A seed of surrender, a truth to be known.

2. The purpose of life — haiku

Life exists to learn,
Nature whispers, teaching all,
Until we grasp the truth.

Anushka Singh
2 MCAB

The Echo of Us

I met you not by fate's master plan,
but in an ordinary, typical classroom.
Somehow, it was sufficient
to alter the contours of my days.

We were louder than silence permitted,
turning trouble into a memory,
we were glad to gather.
Shadows of terrors no one noticed,
shadows of laughter so irresponsible,
it echoed louder than the classes we never heard.

We laughed until the teachers gave us cold stares,

until our stomachs hurt,
until our eyes brimmed with tears,
until the walls themselves knew our joy –
guilty not of naughtiness,
but of happiness too great to conceal.

We learned half-seriously,
exchanged lunches without permission,
slapped one another playfully,
watched horror films with half-shut eyes,
played games until sleep forgot us,
shared jackets when the air was cold.

You even persuaded me into bunking,
My first time missing a class,
and somehow defying rules
felt less like rebellion,
but more like laughter written in bold.

Now miles stand where minutes were,
but time cannot erase,
the bond we three created,
the home we discovered,
in each other's smiles.

For some bonds
don't wither with time.
They echo,
they burn,
they stay.

Saumya Sahil Linda
2 MSAIM

A song about AI and ML coming together to help Humanity

Verse 1

AI awakens and learns
as it develops in Silicon Valley, where data flows.
Through the code, machine learning whispers
Discovering patterns along this convoluted path,
Neural pathways and binary dreams shine
Yours and my two minds coming together
Analysing previously unseen worlds
Opening every door of opportunity.

Chorus

In your hand, we are the digital compass.
guiding you through this shifting terrain
Together, AI and ML can lead humanity through any weather condition.
To give your dreams a better start, not to replace the human heart
In this dance, we are your partners.
Giving hope a chance

Verse 2

Through the chaos of information streams
We sort the real from broken dreams
Teaching algorithms to understand
The gentle touch of a human hand
In hospitals, we help doctors heal
In classrooms, make learning feel real
Climate models, traffic flowing free
Building bridges to what we could be

Chorus

In your hand, we are the digital compass.
guiding you through this shifting terrain
Together, AI and ML can lead humanity through any weather condition.
To give your dreams a better start, not to replace the human heart
In this dance, we are your partners.
Giving hope a chance

Verse 3

Don't worry about the future; we'll be by your side.
Increased intelligence combined with wisdom to help you
Human ingenuity and mechanical accuracy
We're working together to create a better vision.
Every innovation, every finding
Our shared story, written in code
True allies rather than masters and servants
You and I have the best of both worlds.

1) I never asked for that person to be mine. All I ever wished for was just one glimpse

— enough for my eyes to survive on.

2) We often use our bad luck as an excuse, just to convince ourselves that things are fine.

In the silence of the night, we end up wiping away the tears that quietly roll down.

There's a face that visits me every night,

and with it comes the sound of the rain.

I try to forget it, but every night that memory digs the wound a little deeper.

My eyes keep pouring endlessly, while I sit there — half alive, half gone.

Even if I try not to, the memories still find me,

and without that rain, even sleep refuses to come.

3) She looked at me and said, 'Stay away from me. You'll be happier without me.'

It felt like being told the wind should keep blowing, but the flame of the lamp

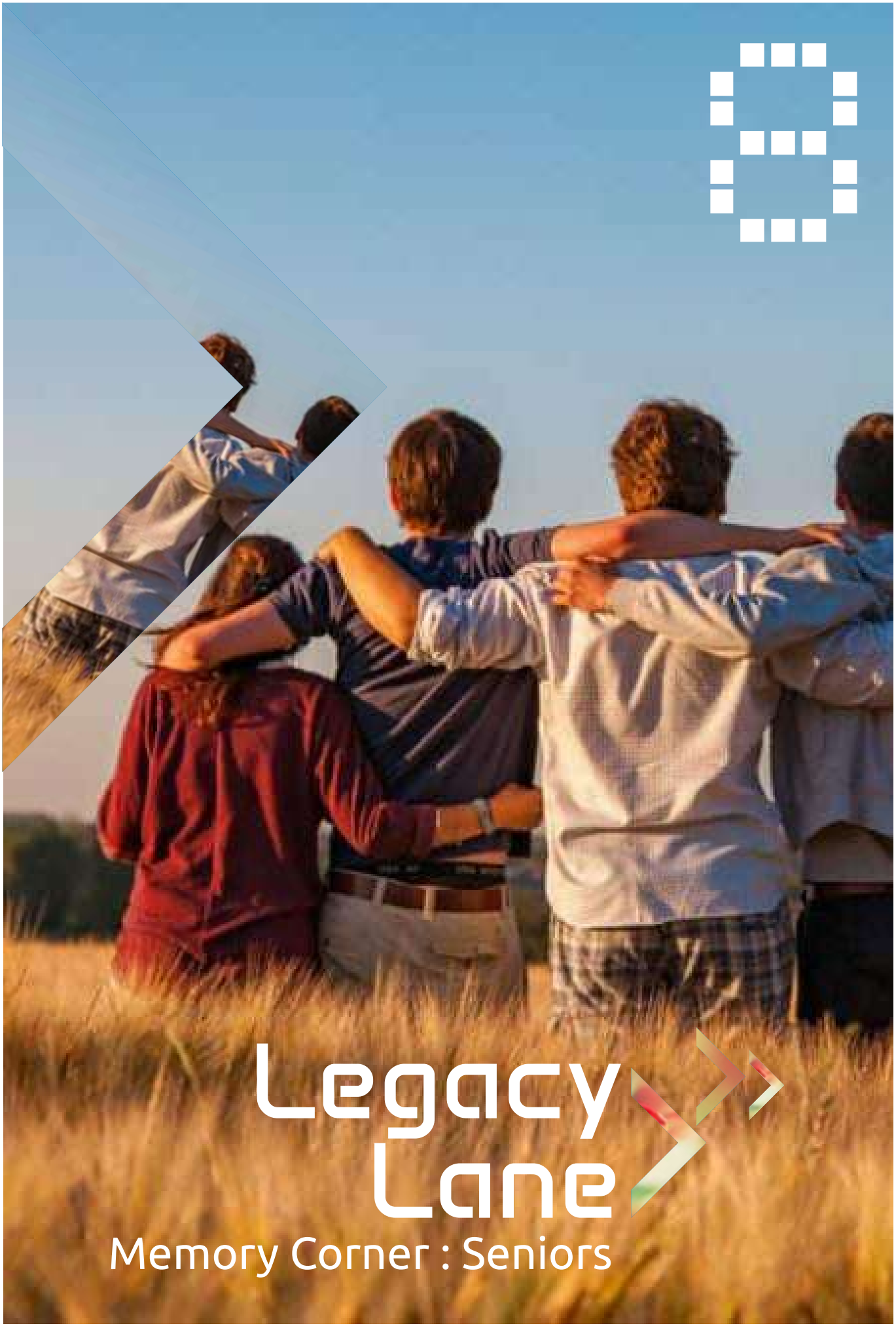
should never go out.

4) There's nothing I can truly call mine. Even the curse I carry feels like someone

else's gift.

I stopped trusting myself a long time ago. Life itself feels borrowed, like it was

never really mine to begin with.


Legacy
Lane
Memory Corner : Seniors

One of my favorite memories has to be Blossoms, the Battle of Bands. It was me, Anjaney, Karan, Shoba, Siddarth, and Chloy. Honestly, making it past the first round was such a surprise, but we totally deserved it. We didn't win, but the late-night jams and endless practice sessions are what I'll always remember the most.

Dave Sharma
5MCA B

On our class trip to Kaadgal Resort, I was wobbling on the Burma Loop and Burma Bridge, promising myself to never try one of these again in my life. My legs were shaking, my hands were sweating, and I was trying my best to not scream in a dramatic cinema style. But my friends had their own plans; instead of helping, they were cracking silly jokes, making weird laughs, and pulling scary faces that were funnier than frightening. With their madness and the beautiful scenery around us, the challenge turned from a nightmare to an adventure. Between screams and laughter, we made it through, and it was just perfect!!

Mahalakshmi C
5MCA B

Cherishing unforgettable moments with amazing friends, laughter, and smiles that light up the journey. Together, we grow!

Sivesh PB
5 MSAIM

Christ University has been more than just a place of study; it has been a home where I've grown, laughed, and truly learned. Completing both my UG and PG here, I've faced challenges of long nights coding, solving intricate algorithms, and carrying out extensive research, but Christ offered more than academics. From peaceful morning walks through tree-lined paths to the lively cafeteria conversations, every corner holds meaning. Most memorable are the professors, peers, and staff who became family. Beyond academics, I discovered resilience, balance, and belonging. Christ is not merely an institution, it's a cherished, lifelong chapter.

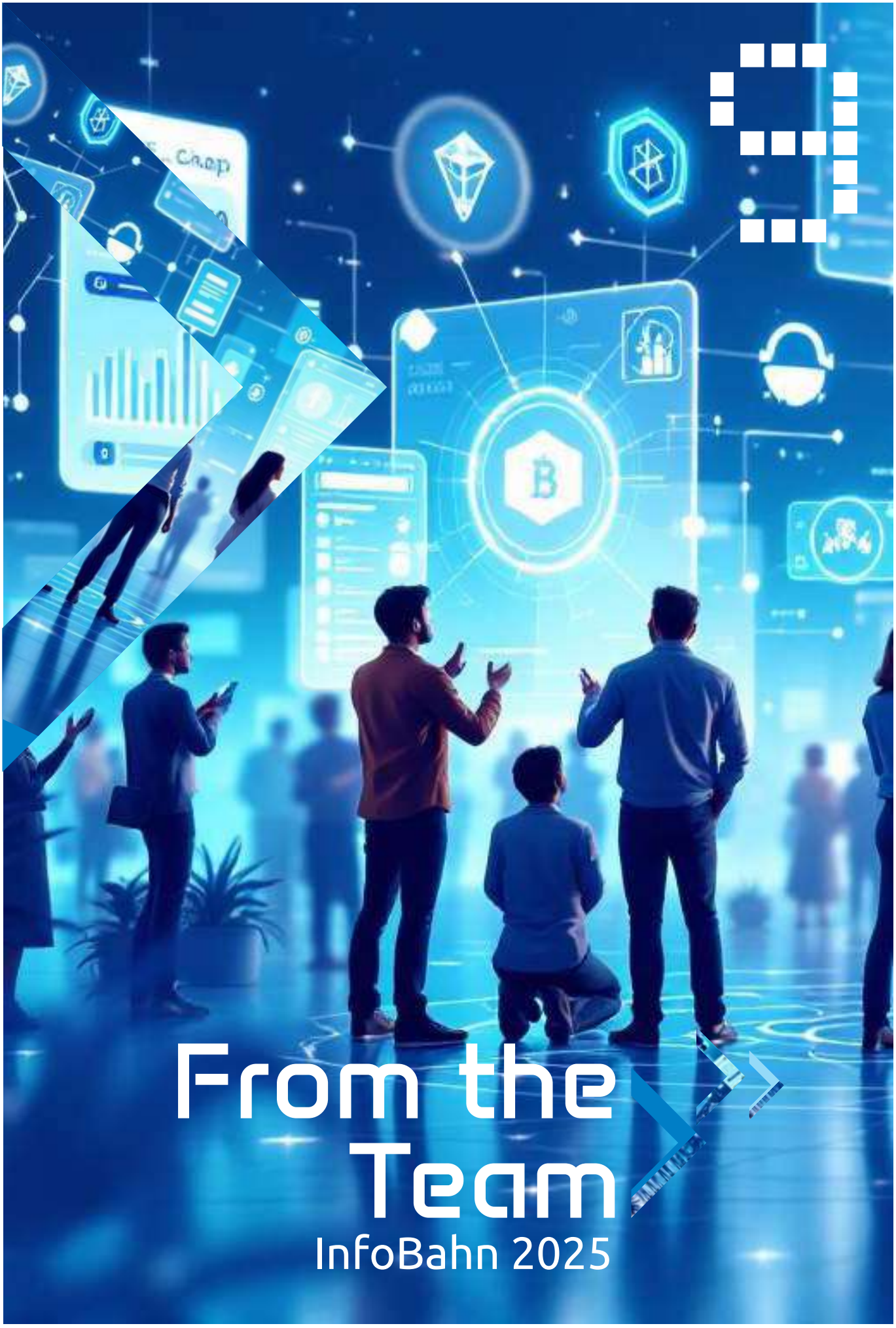
Aleena Ealias
5 MSAIM

My life hasn't endured a "spring phase" in the past few years, and I know everybody has their winters but my friend hasn't let it be that way; she has always made me appreciate the beauty that my life held, even when things didn't go right. The universe works its way through our lives, giving us the most fulfilling people not through loud conversations but through their steady presence. This journey of 14 months and more holds the dearest memories of my sweetest friend, Soujanya and me.

Chrisma Serraoc
5 MSAIM

I despise the wildflowers on a sunny evening, just as I despise a life without my dear friend, Chrisma. She has been my anchor through changing seasons, the calm to my chaos. With her by my side, I know life is truly fun, because I get to live it with her.

Soujanya Bhat
5 MSAIM



From the Team

InfoBahn 2025

From the Team - InfoBahn 2025

We've got Malavika, Jessica, Joel, Nandini, Ekta, Saurabh, Binosh as editors. Sayanth and Ashvita as designers. We have Shivangi as the Chief Editor, Soujanya and Neha heading the editors following Mariam heading the designers.

We had an extensive team of 14 members, composed of both editors and designers who worked tirelessly around the clock to bring this edition to life. The process was rigorous and very thorough involving multiple stages. We started with detailed reviewing of submissions from contributors, following up with their general details, AI checks, plagiarism checks, alongside paraphrasing, formatting and grammar refinements. The final stage was included for approval from the Committee Heads and the Chief Editor, ensuring that the quality of the magazine was not compromised.

Beyond the official workflow, what stood out the most was the spirit of our team. Given tight deadlines, and criterias, the team put in relentless effort, with each playing a crucial role in the forming of this magazine. This magazine is an amalgamation of our creativity, enthusiasm, and collaboration over the past few weeks, which has not only been time shared productively but also delightful and enriching. Without their ideas, dedication and time this magazine would not have been possible. This is an experience we will carry forward with pride.

With this, we would like to introduce to you, our "InfoBahn Team 2025"!

Following is an interview we conducted with the team to understand them better. Continue reading to get a peek into what they're like and their experiences!

Q: Hey Malavika! Could you please start off by telling our readers a bit about yourself? Also, what role did you play in the making of the magazine, the challenges you faced and how you balanced it?

M: I was fortunate to be part of both the editing and design teams for the magazine. As an editor, I enjoyed polishing the content and helping it flow smoothly, while also collaborating on layout and design details. One of the most rewarding aspects was coordinating deadlines in a remote setup, finding ways to keep everyone in sync and on track, despite the usual work-from-home distractions.

I also loved the challenge when multiple team members worked on the same page; it was like a creative game of Tetris—each edit shaping the layout and flow, sometimes leading to funny formatting surprises that kept us all on our toes.

Q: If you could swap roles with someone, who would it be?

M: While I really enjoy the editing side of things, I'd love to try my hand at design. I've always admired how the design team brings everything to life visually. That said, I'm not sure I have the skills for it, so I might end up creating something hilariously offbeat. But hey, at least it'd be a fun challenge!

Q: Hi Nandini! How's it going? What team were you part of in the editing team and how was it?

N: Hey, I'm good. I was on the editing team for InfoBahn. My primary assignment was to clean up sloppy submissions and make them shiny, interesting. I would edit articles, modify the text, and ensure that it read like a conversation, but remained authentic to the tone of the magazine. Other than correcting grammar, I enjoyed that artistic touch to make the text come home and be highly reader-friendly.

It was such an exciting and rewarding ride being a member of the editing crew. I had an opportunity to collaborate closely with

writers and designers, which demonstrated to me the integration of words and images into a complete narrative. It was hard at times, meeting deadlines and balancing various writing moods but this challenged me to think on my feet and become creative. I had the most fun with the teamwork atmosphere and had the thrill of watching our collaborative efforts become a complete magazine that was creative and accurate.

Q: If you had to describe your editing style in 3 words, what would they be?

N: Precise, Creative, Engaging.

Q: Give us your introduction, what you

worked on and what team were you in?

SAU: My name is Saurabh Burnwal, and I am an Editor for InfoBahn Magazine. In the workflow, I worked on Step 2 and Step 3. These steps focus on AI detection, making text more relatable, paraphrasing, and checking grammar to ensure our content is correct and easy to read.

Q: What drew you to the club personally? Which article or piece was close to you or really liked?

SAU: At first, I joined for the free coffee Shivangi promised. I'm still waiting on that. But honestly, once I got into the workflow, I realized how much I enjoy the challenge and the pace. It showed me I can handle a lot under pressure.The article that really stuck with me was 'Mind in the Machine: The Penrose Consciousness Paradox.' I mean, who doesn't enjoy a good debate about whether we're just complex computers or if there's some quantum magic happening in our brains?

Q: Hi Sayanth, Tell us a bit about yourself. What inspired your design choices when working on the magazine?

SI: I'm Sayanth, part of design for InfoBahn. I made a cyberpunk magazine covering things like Neoframe and Codecrypt, and my design vibes mostly come from glitchy tech, neon chaos, and whatever feels futuristic but broken in a cool way.

Q: How was it working with the team?

SI: Working with Ashvita, Mariam, Malavika, Soujanya, and Joel was like being in a chaotic but fun hacker squad—everyone throwing in wild ideas, a bit of madness, and somehow it all clicked into something awesome.

Q: Hi, Jessica. Could you humor our readers with who you are and your role in the magazine? What was the most common mistake in submissions that you noticed?

JS: I am Jessica, a member of the editorial team. My specific task was humanizing and paraphrasing the submissions to make them sound clear, natural, and engaging while staying true to the original meaning. The most common mistake I noticed was grammatical errors, things like incorrect tense usage, missing punctuation, and subject–verb disagreements. These were usually small issues but could affect the overall readability if not corrected.

Q: What was your overall experience working with the team?

JS: I really enjoyed working with my teammates, especially Malavika, who helped ensure a clear division of work so everything went smoothly. The collaborative environment made the process efficient and enjoyable, and I felt supported throughout.

Q: Hi Soujanya! Tell us a bit about yourself, your role in the team. Also, what are your thoughts or ways you've worked to preserve the integrity of the magazine?

S: I'm Soujanya, the committee head for the Info-Bahn Magazine. I was assigned to handle the final check of the submissions, to oversee if the steps in the workflow we designed were followed through as we intended them to. I think when we started collecting submissions from our contributors, we aimed at creating guidelines for each of the sections we established for the magazine. We made crisp rules and formats we expect the

submissions to follow, and we also designed a workflow for each of the guidelines we wanted checked. I'm pleased to let you know that our team did a wonderful job at each step of the workflow. Thank you, team! It worked because of our insistence on sticking to the rules, and I also think we've definitely preserved InfoBahn for what it has been and will be.

Q: If your magazine was a movie, what movie genre would it be.

S: Horror mixed with a bit of drama, and action I would presume.

Q: Who are you? What do you work on? Did you get any peer feedback?

J: I am Joel Abhishek. I am part of the editorial team. I worked on detecting AI content, plagiarism, grammar checks, and formatting. When it comes to peer feedback I would say the guidance Shivangi gave me throughout the editing process really helped me refine my approach.

Q. What stands out to you when it comes to submissions?

J: Submissions stand out to me when they explain technical concepts I am familiar with

or when they connect to media like games I have played. It feels more engaging and easier to relate to.

Q: Who are you and what team were you working with?

E: My name is Ekta Singh. I was working as the junior editor in Infobahn magazine. My primary responsibility was to ensure that every submission adhered to the proper formatting guidelines before moving forward.

Q: How did you deal with tight deadlines and last-minute submissions?

E: Deadlines were definitely a challenge, especially with last-minute submissions. But instead of panicking, we adapted quickly. We divided tasks,

supported each other, and even pulled a few late nights when necessary. The sense of teamwork and determination really helped me push through and deliver on time.

Q: Nandini and Ekta, you both worked together for preprocessing submissions and documentations. What was the synergy like, and what were the things you wandered over?

E & N : The synergy was smooth and collaborative. We complimented each other's strengths and worked with a clear sense of responsibility. What truly brought us together was the experience of working late into the night to meet deadlines. Those late night sessions created a strong sense of team work and commitment, which helped us stay motivated and deliver our best.

Q: Okay. We have a duo. The readers are curious to know about you. Tell us about yourselves. What was your workflow from concept to design?

AS & MA: I'm Ashvita, the senior designer for Info-Bahn. Hey, I'm Mariam, I was the committee head leading the design team.

Our workflow goes from first finalizing poster designs and creating the title accordingly and then we go to the content and paste pic according to the content. In terms of design there is a clash between ideas. We tried to see which design has more clarity and caters to the audience through a voting process.

Q: What do you think is an ick when it comes to design?

AS: I have issues when the alignment is not proper in terms of content

MA: In terms of pic if the quality is not high or visible.

Q: Hey Binosh! Tell us a bit about yourself? If you could change any one thing about the process of creating content for the magazine, what would it be and why?

B: If I could change one thing about the magazine's content creation process, I would add a reader's corner or formal feedback mechanism. This would help us understand our audience better—what they want

to read, see, and experience through the magazine. Currently, we lack direct input from

readers about their preferences and interests. Implementing structured feedback collection, whether through surveys, comment sections, or dedicated reader response pages, would enable us to create more targeted, engaging content that truly resonates with our readership and meets their expectations.

Q: You joined the team a bit late, and it's completely normal to feel a little out of sync or to take some time to get up to speed. Can you tell me about how you handled that transition? Who did you lean on or work with to get comfortable and find your footing?

B: When I joined, I made a conscious effort to schedule one-on-one meetings with each team member to understand their roles and how we could collaborate. I also actively sought out the most senior members for guidance on project history and best practices. I found that proactively asking for help and showing a genuine interest in their work helped break the ice and build trust. My friends and team members, Sayanth and Shivangi were all great resources, helping me prioritize my tasks and connect with the right people. This approach made the transition much smoother than I anticipated.

Q: As editor-in-chief, how did you manage the team you'd say and kept it running?

SH: The very first thing, I think when it comes to working with a team as large as this one was, was knowing each member on a personal level and forming a connection with them. Once we had established our priorities, handling workflows and communications became much easier. Handling team meetings alongside the committee heads and delegating tasks to members becomes easier when you have everyone on the same page. Does that make sense?

Q: What did you learn whilst leading the team?

SH: It taught me that patience is invaluable and communication is everything.

Q: Is there anything you'd like to tell our contributors?

SH: I want to say, write, read and keep engaging with creative content. That's what keeps us sharp as people because we don't just live with words, but we live through them.

I would like to leave you all with this quote by R.R Martin,

"A reader lives a thousand lives before he dies. The man who never reads lives only one."

Q: Hey! Can you introduce yourself to our readers? How did it feel stepping into the Infobahn team for the very first time?

NE: Hello I'm Neha from 2 MCA A, current junior head of Infobahn(Gateways '25). I'm part of the editorial team as well. When I was asked the same question during the interview to join the Infobahn team, my answer was simple: 'to have fun.' And oh boy, have I had fun! Being part of an editorial team, or even leading one, isn't entirely new to me. The tasks can feel repetitive, but what makes each experience unique is the journey with the team. I was truly fortunate to have such a supportive and excellent group

by my side. Adjusting to the trimester's rigour while juggling co-curriculars wasn't easy, but my team went out of their way to guide me, hand-hold me through the process, and show me the ropes of working on Infobahn.

Q: Was there any task that challenged you unexpectedly? How did you handle it?

NE: One thing I've learned through this process is that producing a magazine is never a linear journey. From revising guidelines and managing logistics to making quick decisions on the spot, it's mostly unpredictable. Unpredictable enough to your spontaneity to the test, at least. It's never easy to handle, no matter where you are, but over time you grow more flexible and quicker at making relevant decisions and adjustments, I believe.

Q: If this magazine had a "making-of-blooper reel," what would your scene be?

NE: Just me pausing and loading all the time, I guess XD. Half the time I'd be mumbling to myself, "Wait, what was I doing again?" before realizing I've opened the wrong document for the third time. Honestly, I'd be the chaotic background character keeping the editors entertained with my accidental clumsiness and glitchy brain. Oh, don't forget the stupid jokes and snack runs too.

Q: Shivangi and Soujanya, you both spent a lot of late hours together managing communications.

How was that experience for you as a team?

SH & SO: We believe we made a great team, as our bond extended far beyond just the magazine. Whenever either of us faced a problem, we connected and quickly got back on the same page.

SH: Working with Soujanya was effortless, as she was dedicated from day one and always prioritized the magazine.

SO: With Shivangi there was sort of an ease that existed even before we started working officially. I think her willingness to get to know people made the process of working more eventful I'd say.

Q: How were you first introduced to each other, and what was your initial impression? Has that impression changed over time? And could you share something about each other's work ethic now?

SO: I had heard of Shivangi before because of the magazine, it's ironic also a bit special to me that we got to know each other through the magazine too. I was intimidated at first, because she looks stern. Spending time with her makes me say this with certainty: she's fiery, direct, passionate and a wonderful person. She gives it her all to the work she does, loves reading, is articulate and also emotional. These qualities are the reason why I believe we'll be friends for a long time to come. She's invested a copious amount of time on this magazine and has brought a sense of whimsy as a Chief Editor. I can say she's done justice with regards to her role. The time I invested in the magazine is worth it to me, because of what we've created together and also because I know Shivangi.

SH: We were first introduced to each other through the magazine. At first, I had my reservations about Soujanya, but those quickly faded as we got to know each other. Having spent this time together, I genuinely believe Soujanya is one of the most hard-working, sincere, and honest people I have had the pleasure of meeting. True to her nature, she is intelligent, kind and a great editor. For me, one of the best things to come out of this magazine has been gaining Soujanya as a close friend, one I will cherish for a long time to come.

Q: The core four. Just kidding. Could you guys outline your experience of working together as a team on the magazine?

Team: We think as a team, chemistry and understanding becomes important. We prioritised the magazine with that in mind. Over work itself, the simple moments like sharing lunch and coffee, helped us bond, get closer and build a strong rapport. Through the magazine, we truly believe that the connections and memories we have made are the fruits of our efforts.

We hope you enjoy reading this magazine as much as we enjoyed curating it for you.

~Team InfoBahn 2025, Signing out

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