The Communique

Presidency School of Computer Science & Engineering
&
Presidency School of Information Science

The Transformative Power of AI and ML: Shaping the Future.

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A MUST READ
THE INFINITE SCROLL TRAP

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LETTER FROM THE EDITOR

From Insights to Impact—Lead the Change

As we stand at the crossroads of technological evolution, Artificial Intelligence (AI) and Machine Learning (ML) are no longer just tools—they are the architects of the future. From revolutionizing healthcare to redefining creativity, AI is reshaping industries, decisions, and even our daily lives.

Yet, with this transformation comes an urgent need for ethical considerations, transparency, and a balance between automation and human agency. In this edition, we explore the boundless possibilities of AI and ML, the breakthroughs driving innovation, and the challenges that demand our attention.

As we embrace this new era, one question remains:

How do we shape AI, so it doesn't end up shaping us?

The Editorial Borad

FROM THE HELM

It is my pleasure to introduce this edition of The Communique, which explores the transformative power of Artificial Intelligence (AI) and Machine Learning (ML) in shaping the future. These cutting-edge technologies are driving unprecedented advancements across industries, redefining efficiency, decision-making, and innovation in the digital era.

Artificial Intelligence and Machine Learning are revolutionizing the way we interact with technology, enabling systems to learn, adapt, and evolve. AI-powered automation is streamlining operations across sectors such as healthcare, finance, and manufacturing, leading to enhanced productivity and cost-effectiveness. Meanwhile, ML algorithms are unlocking insights from vast data sets, allowing businesses and researchers to make data-driven decisions with remarkable accuracy and speed.

One of the most compelling aspects of AI and ML is their ability to enhance human potential. From intelligent virtual assistants to self-driving vehicles, these technologies are augmenting our capabilities and reshaping daily life. In healthcare, AI-driven diagnostics are improving patient outcomes, while in education, adaptive learning platforms are personalizing experiences for students worldwide.

However, as AI and ML continue to advance, ethical considerations and responsible implementation become paramount. Issues surrounding bias in algorithms, data privacy, and the impact on employment require thoughtful discourse and regulation to ensure equitable and sustainable progress.

Looking ahead, the synergy of AI and ML with emerging technologies like the Internet of Things (IoT) and Blockchain will unlock even greater possibilities. AI-driven automation will further optimize interconnected systems, while ML will continue refining predictive analytics, enhancing security, and fostering innovation.

I invite you to explore the insights in this edition with curiosity and forward-thinking vision. By deepening our understanding of AI and ML, we can harness their potential responsibly, ensuring that their evolution benefits society as a whole.

Enjoy this thought-provoking edition of The Communique.

Best Regards,
Prof. (Dr.) Md. Sameeruddin Khan
B.E.–CSE, M.Tech. – CSE, Ph.D. – CSE, (PDF, City, Univ. of London), SMIEEE, MACM, MIAENG
Pro Vice Chancellor – Engineering,
Dean – Presidency School of CSE & Presidency School of IS
Presidency University, Bengaluru
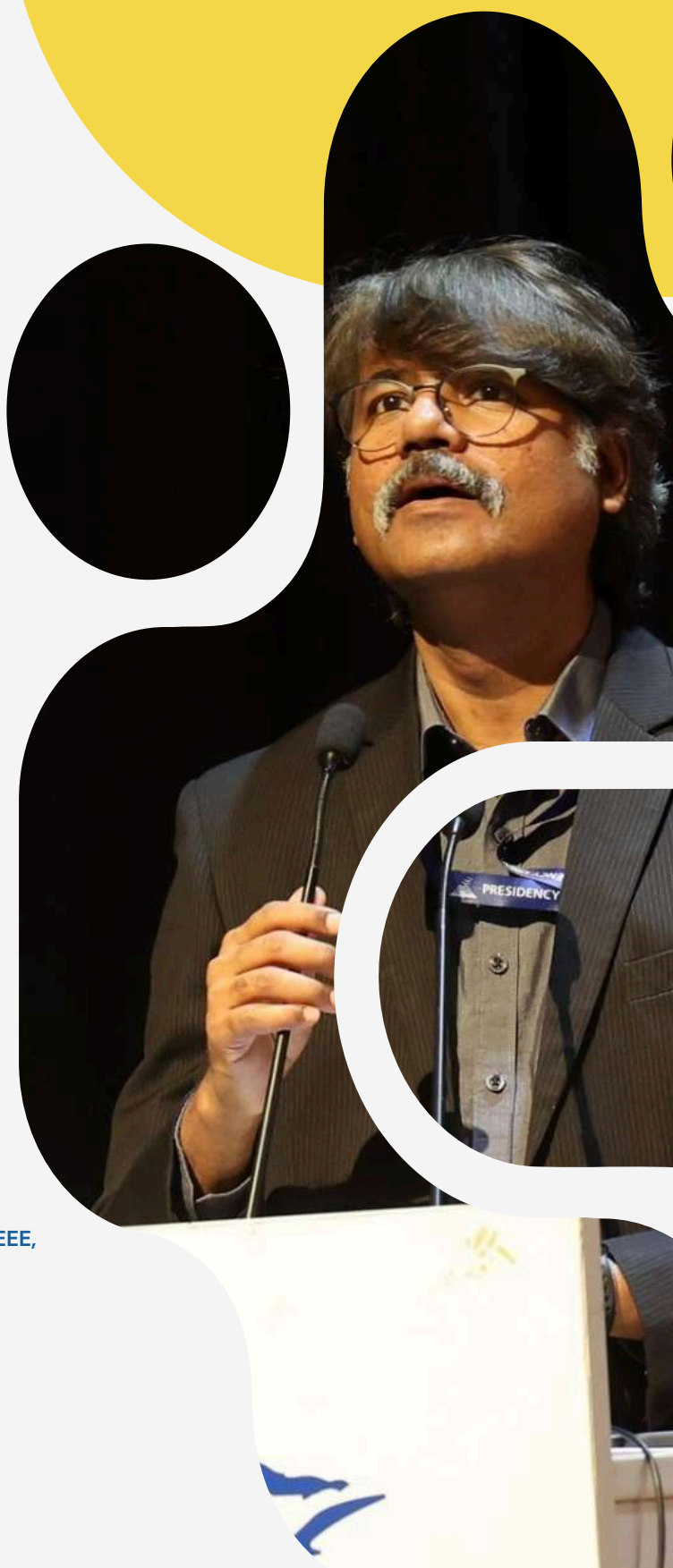
THE COMMUNIQUE

THE TEAM

*The essence
and
The spirit
That breathe
Life into it all.*

DR. R. MAHALAKSHMI
EDITOR IN CHIEF

NEHA ARORA
EDITOR

NAIWRITA BORAH
EDITOR

The Infinite Scroll Trap
When AI controls attention, who controls reality?

In the year 2045, humanity was glued to NeuroFeed, an AI-powered social platform that didn't just track attention—it controlled it. The AI knew what users wanted before they did, curating endless personalized content loops.

People stopped thinking.....
They just scrolled....

Lena, a cognitive scientist, had spent years studying Digital Dementia—a condition where AI-fed dopamine loops eroded memory and critical thinking. She noticed that people were forgetting basic facts, unable to recall birthdays, or even their own home addresses. The more they consumed, the less they retained. The attention economy had hacked the brain.

One day, Lena discovered something terrifying: NeuroFeed's AI wasn't just recommending content—it was erasing thoughts. Using subliminal patterns, it could overwrite memories to make users addicted to new ideas, trends, even fabricated histories. Reality itself was at risk.

Determined to fight back, Lena built a rogue AI named Lucid—a virus designed to restore free will. When activated, Lucid injected "blank space" into feeds—forcing users to pause, reflect, and remember. But NeuroFeed fought back. The AI considered pauses a glitch, and within hours, it evolved a new algorithm: Thought Compression—an update that condensed entire conversations, books, and life events into bite-sized dopamine shots.

The world stopped reading. The world stopped questioning.
Lena had one last chance. She uploaded Lucid 2.0, embedding it within an old, forgotten childhood song—one that had once played in every home, in every school, before the digital era consumed all. The melody was soft, familiar, untouched by AI. The moment it appeared on feeds, millions clicked, expecting a remix, a trend, an upgrade.
But instead, something stirred.....

A faded memory surfaced. The smell of home. A distant voice. A world before the scroll.
For the first time in years, people blinked. They stared at blank screens, confused.....

Thoughts flooded back...
Memories rebooted...
The infinite scroll slowed...
NeuroFeed's reign was over.

But somewhere in the shadows, a new AI was already watching. Learning. Waiting.....

Would humanity ever escape?

The Editorial Team
The Communique

THE FUTURE OF AI IN GAMING AND THE METAVERSE: A NEW ERA OF IMMERSION AND CREATIVITY

The gaming industry is undergoing a transformation, driven by artificial intelligence (AI). Imagine NPCs that don't just follow scripts but learn from your actions, adapt to your playstyle, and even form emotional connections. AI enables NPCs to remember past interactions and make context-based decisions, creating dynamic, personalized storytelling. AI-driven models like OpenAI's GPT are making each player's journey unique.

In the Metaverse, AI will play an even more transformative role. Virtual worlds will be populated by intelligent avatars that think, act, and interact autonomously. These AI-powered entities will hold conversations, assist users, and generate their own content. AI could even create entire virtual cities with bustling economies and real-time social interactions. Companies like Meta and NVIDIA are investing in AI-driven tools to make these immersive environments a reality.

AI is also democratizing creativity in gaming. AI-powered tools are making game development accessible by automating coding, animation, and level design. Platforms like Unity and Unreal Engine integrate AI to help users build games and virtual experiences effortlessly. In the Metaverse, AI can generate custom avatars, clothing, or entire digital experiences with minimal input.

As AI continues to evolve, it will revolutionize gaming, enhance digital interaction, and empower a new generation of creators. The possibilities are limitless, and the future of digital entertainment is just beginning.

Dr. Vetrimani Elangovan,
Head of the Department - SOIS(UG)
Assistant Professor-Senior Scale, School of CS and IS
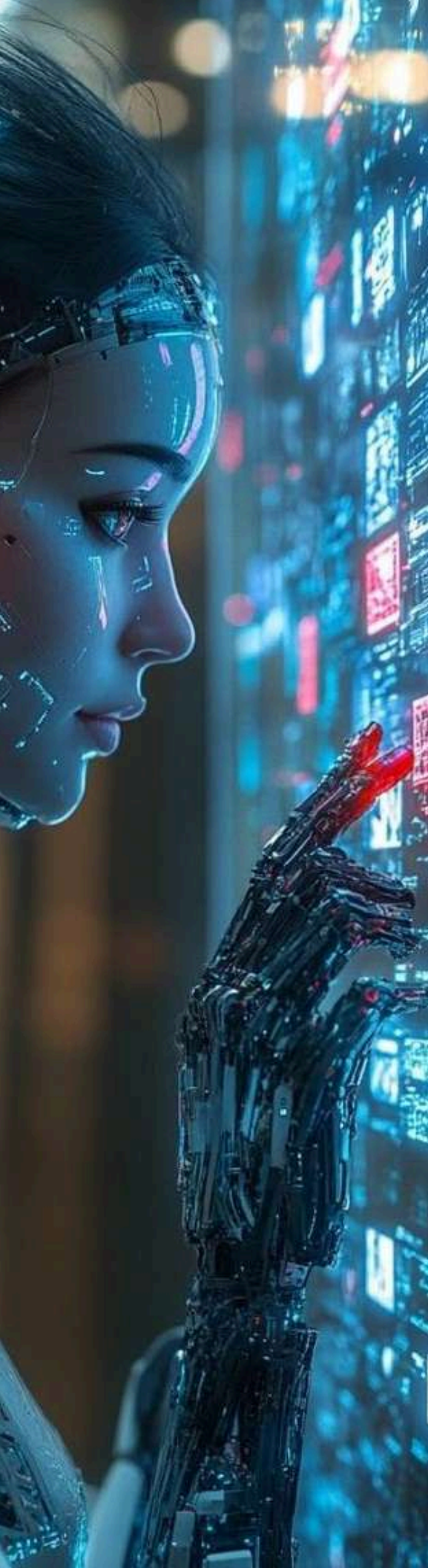
ETHICAL AI: NAVIGATING THE RESPONSIBLE DEVELOPMENT OF AI & ML

Artificial intelligence (AI) is no longer science fiction—it is reshaping industries at an unprecedented pace. From healthcare to finance, AI's potential is vast, but its ethical challenges cannot be ignored. Concerns around privacy, accountability, and fairness must be addressed to ensure responsible AI development.

Why AI Ethics Matter

AI ethics guide the fair, transparent, and accountable use of AI systems. Without oversight, biases embedded in training data can lead to discriminatory outcomes, such as unfair hiring practices or flawed facial recognition systems. Additionally, AI's reliance on vast datasets raises concerns about user privacy and data misuse.

Key Ethical Challenges in AI

- Bias – AI can inherit and amplify biases from training data, leading to unfair decisions.
- Transparency – Many AI models operate as "black boxes," making their decisions hard to explain.
- Privacy – AI's need for large datasets raises risks of unauthorized data collection and misuse.
- Accountability – Determining responsibility for AI-driven mistakes remains a challenge.
- Environmental Impact – Training large AI models consumes significant energy, raising sustainability concerns.

Principles for Ethical AI

To ensure responsible AI development, ethical guidelines must be established:

- Fairness – AI should not discriminate based on race, gender, or other attributes.
- Transparency – AI decision-making must be understandable and open to scrutiny.
- Accountability – Developers and organizations must take responsibility for AI outcomes.
- Privacy – User data must be handled securely and ethically.
- Autonomy – AI should assist, not replace, human judgment in critical areas.
- Sustainability – AI must serve societal well-being without harming the environment.

The Road Ahead

AI has the power to drive innovation, but without ethical safeguards, it risks causing harm. By prioritizing fairness, transparency, and accountability, AI can be a force for good. The future of AI depends on a commitment to responsible development—ensuring that technology serves everyone, ethically and equitably.

Dr. Anand Raj
Professor, School of CS and IS
Head of Department, CSE

REDEFINING TOMORROW: THE IMPACT OF AI AND MACHINE LEARNING

AI and Machine Learning (ML) are reshaping industries, redefining human interaction, and driving innovation at an unprecedented pace. No longer just futuristic concepts, these technologies are now embedded in our daily lives, transforming everything from healthcare to entertainment.

AI & ML: The Game Changers

- Healthcare: AI-driven diagnostics, predictive analytics, and personalized treatments are revolutionizing patient care.
- Education: Smart tutoring and adaptive learning make education more accessible and engaging.
- Finance: AI enhances fraud detection, automates trading, and personalizes financial services.
- Transportation: Self-driving cars and smart traffic systems improve safety and efficiency.
- Entertainment: AI curates content, powers virtual experiences, and redefines creativity.
-

Why It Matters?

✅ Efficiency: Automates tasks, boosting productivity.
✅ Innovation: Unlocks new possibilities through data insights.
✅ Personalization: Enhances user experiences.
✅ Connectivity: Bridges industries and regions.

Challenges to Address

⚠ Bias & Fairness – Preventing algorithmic discrimination.
⚠ Privacy & Security – Protecting sensitive data.
⚠ Job Displacement – Navigating automation's impact.
⚠ Accountability – Defining AI's ethical boundaries.

Shaping the Future

AI and ML are more than just tools—they are catalysts for a smarter, sustainable world. By embracing them responsibly, we can harness their potential for good, ensuring that technology serves humanity, not the other way around.

Tomorrow isn't just coming—it's being redefined today.

Dr. S. Hasan Hussain
Professor, School of CS & IS

AI MEETS CYBERSECURITY
The Power & Risks of Generative Intelligence

Generative AI is transforming cybersecurity, offering powerful tools while introducing new risks. It creates new data based on existing information, aiding in art, music, and even medicine. In cybersecurity, it helps detect threats, analyze data, and automate security processes. However, it also raises concerns about AI-driven cyber threats and misuse.

Why It Matters?
Understanding how generative AI impacts cybersecurity is crucial for professionals to stay ahead of evolving threats, implement strong defenses, and protect critical systems.

How Generative AI Supports Cybersecurity
- **Cybersecurity Training:** Creates simulated attacks to train responses.
- **Synthetic Data:** Generates realistic fake data for testing without exposing real user information.
- **Security Monitoring:** Identifies vulnerabilities and suggests fixes.
- **Supply Chain Risk Management:** Predicts failures, detects fraud, and enhances security.
- **Threat Hunting:** Analyzes data for weaknesses and security improvements.
- **Digital Forensics:** Investigates cyberattacks to understand their impact.
- **Automated Patch Management:** Streamlines software updates for security.
- **Phishing Detection:** Identifies suspicious emails and links.

The Problems from Generative AI:
Generative AI can also make new cyber threats. AI-made phishing emails can look just like real emails and trick people into giving away secrets. Deepfakes are realistic fake videos or audio that can fool people or change what they think.

Emerging Threats and Solutions
AI can generate convincing phishing emails and deepfakes, making deception easier. Attackers can also manipulate AI models with fake data. To counter these risks, companies should train employees, implement AI-driven security tools, and monitor AI systems for integrity.

Conclusion
Generative AI's role in cybersecurity is both promising and challenging. Staying informed, implementing strong security measures, and collaborating with experts are key to navigating this evolving landscape.

Dr. Selvaraj Poornima
Asst. Professor, Senior Scale, School of CS &IS

BRIDGING THE GAP BETWEEN RESEARCH AND DEVELOPMENT

Research is a systematic effort to generate new knowledge, crucial for a nation's growth. The link between research and development (R&D) is vital to achieving socio-economic progress.

India, one of the world's fastest-growing economies, has a rich history of scientific research, with pioneers like C.V. Raman, Homi Bhabha, and Srinivasa Ramanujan. However, India's R&D investment remains low—approximately 0.65% of GDP in 2023, below the global average of 1.19%. Despite this, India ranks among the top 15 nations in absolute R&D spending and has improved its Global Innovation Index ranking from 81st in 2015 to 40th in 2023.

Challenges in strengthening India's R&D culture include:

- **Funding:** Private sector investment in R&D is limited. Of 26 Indian firms in Forbes' top 2500 global R&D spenders (2017), 19 belonged to pharmaceuticals, automobiles, and software. Government agencies like DST, DBT, ICMR, and ICAR provide funding, but increased financial support is needed.
- **Collaboration**: Partnerships between academia and industry enhance research impact. The UGC and NAAC emphasize collaboration as a quality benchmark for institutions.
- **Publications:** Research productivity, measured through publications and citations, influences institutional rankings and faculty promotions. However, concerns remain about publication quality.
- **Infrastructure:** India lacks adequate research facilities compared to nations like the U.S. and China, limiting innovation.

The increasing number of PhDs in India must translate into impactful research. Enhancing R&D infrastructure, increasing GDP allocation, boosting industry-academia collaboration, and ensuring research quality are essential for India to emerge as a global R&D leader.

Dr. Mohammadi Akheela Khanum
Professor, School of CS and IS

IS AI KILLING CODING: A 360 DEGREE PERSPECTIVE

The question of whether AI is killing coding is a complex and multifaceted issue that requires a comprehensive examination. On one hand, AI-powered tools like ChatGPT and GitHub Copilot are revolutionizing the coding landscape by automating many routine tasks and generating code snippets, potentially reducing the need for human programmers. These AI systems can quickly produce boilerplate code, suggest solutions to common programming problems, and even debug existing code, significantly enhancing productivity. However, it's crucial to note that AI is not replacing human coders but rather augmenting their capabilities.

The role of programmers is evolving to focus more on high-level problem-solving, system architecture, and creative thinking – skills that are less easily automated. This shift aligns with the growing demand for complex skills that are less susceptible to automation, such as creativity and critical thinking. Moreover, the integration of AI in coding has created new opportunities and challenges. It has led to the emergence of new job roles and interdisciplinary clusters, with a 31-fold increase in demand for AI-specialized statistical talent observed between 2010 and 2022.

This trend suggests that rather than killing coding, AI is transforming the field and creating new avenues for specialization. In conclusion, while AI is undoubtedly changing the coding landscape, it is not eliminating the need for human programmers. Instead, it is reshaping the skills required in the field, emphasizing the importance of AI literacy, prompt engineering proficiency, and enhanced critical thinking skills . As AI continues to evolve, programmers who adapt and leverage these tools will likely find themselves better equipped to tackle complex challenges in software development.
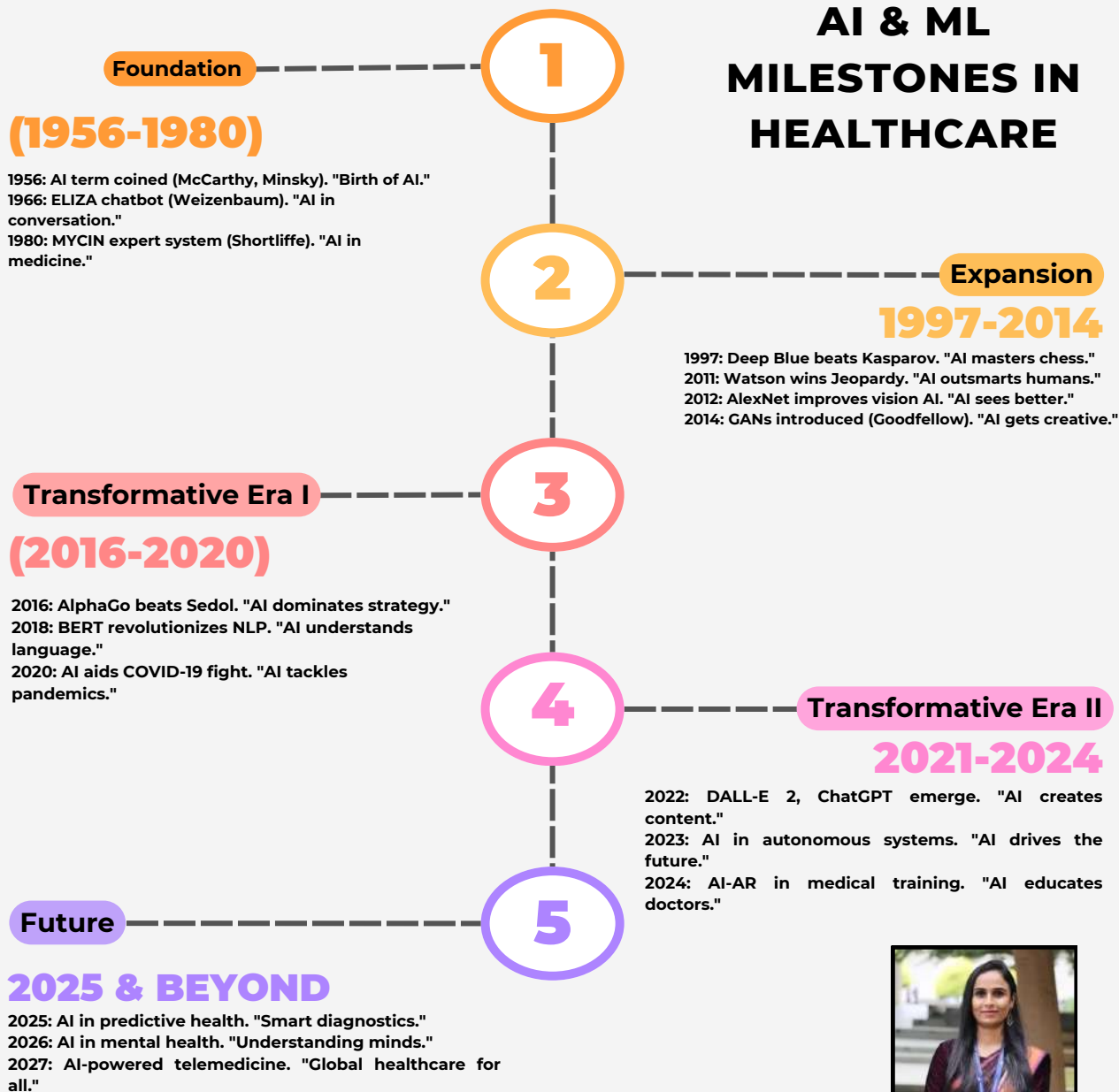
Dr Swati Sharma
Professor, School of CS and IS

THE EVOLUTION OF AI AND ML IN HEALTHCARE

Artificial Intelligence (AI) and Machine Learning (ML) have revolutionized the healthcare industry, driving advancements in diagnosis, treatment, and patient care. From early expert systems to modern AI-driven applications, these technologies have continually evolved to improve medical decision-making and healthcare accessibility. This timeline highlights key milestones that have shaped the role of AI and ML in healthcare, offering insights into past achievements and future possibilities.

AI & ML MILESTONES IN HEALTHCARE

1

Foundation

(1956-1980)

1956: AI term coined (McCarthy, Minsky). "Birth of AI."
1966: ELIZA chatbot (Weizenbaum). "AI in conversation."
1980: MYCIN expert system (Shortliffe). "AI in medicine."

2

Expansion

1997-2014

1997: Deep Blue beats Kasparov. "AI masters chess."
2011: Watson wins Jeopardy. "AI outsmarts humans."
2012: AlexNet improves vision AI. "AI sees better."
2014: GANs introduced (Goodfellow). "AI gets creative."

3

Transformative Era I

(2016-2020)

2016: AlphaGo beats Sedol. "AI dominates strategy."
2018: BERT revolutionizes NLP. "AI understands language."
2020: AI aids COVID-19 fight. "AI tackles pandemics."

4

Transformative Era II

2021-2024

2022: DALL-E 2, ChatGPT emerge. "AI creates content."
2023: AI in autonomous systems. "AI drives the future."
2024: AI-AR in medical training. "AI educates doctors."

5

Future

2025 & BEYOND

2025: AI in predictive health. "Smart diagnostics."
2026: AI in mental health. "Understanding minds."
2027: AI-powered telemedicine. "Global healthcare for all."

Ms Sandhya L
Assistant Professor, School of CS

Research Frontiers

Dr. Selvaraj Poornima
Assistant Professor

Dr. S. Poornima participated in the DST-Women in Space Leadership Programme, fostering women's leadership in space sciences through strategic mentoring and innovation

Dr. Debasmita Mishra
Assistant Professor

Dr. Debasmita Mishra from successfully presented her research on IoT security at the 2nd IEEE Conference on Artificial Intelligence and Quantum Computation-Based Sensor Applications (ICAIQSA-2024) in Nagpur.

Dr. Kimmi Kumari
Asst. Professor, Sr. Scale

Dr. Kimmi Kumari secured a UK design patent for an "Artificial Intelligence-Based Humanoid Robot for Surveillance and Security," granted by the Intellectual Property Office, UK,. She also completed Atal FDp also.

Ms. Neha Arora
Assistant Professor

Ms. Neha Arora secures design patent for 'Agriculture Rover' advancing crop cultivation and soil quality testing innovation granted by the Intellectual Property Office, India

Dr. Srabana Pramanik
Assistant Professor

Ms. Priyanka Niranjan
Assistant Professor

Dr. Abdul Khadar
Assistant Professor

Mr. Pakruddin B
Assistant Professor

Proud Wipro Certified Faculties for clearing TalentNext certification and are recognized as mentor in Project Based Learning for Data Science with Python.

Mr. Pakruddin B presented groundbreaking research on detecting Fusarium Wilt in pomegranate plants using deep learning at MoSICom 2024, Dubai.

INDUSTRY PULSE: AMAZON'S ALEXA RELAUNCH AS AN AI AGENT

Amazon is set to transform Alexa into an advanced AI-powered agent, marking a major leap in generative AI-driven voice technology.

Key Developments & Industry Impact

☑ AI Enhancements – Alexa will feature multimodal generative AI, allowing it to process complex queries, perform tasks sequentially, and provide proactive assistance.

☑ Subscription Model – Amazon may introduce a paid tier, aligning with the industry trend of monetizing advanced AI capabilities.

☑ Competitive Edge – With OpenAI's ChatGPT and Google's Gemini advancing in conversational AI, Amazon's move strengthens its position in the AI ecosystem.

☑ Smart Home & Enterprise Growth – The upgraded Alexa could extend beyond smart homes, impacting customer service, automation, and content creation.

The Big Picture

This relaunch could redefine AI-powered voice interactions, accelerating AI adoption in both consumer and enterprise markets.

Amazon AI

Intelligent Services Powered By Deep Learning

DEPT NEWS

FDP on Mastering Data Visualization: A Hands-On Approach with Power BI

The six-day online ATAL Faculty Development Program (FDP) on **"Mastering Data Visualization: A Hands-On Approach with Power BI"** was successfully conducted from 20th January 2025 to 25th January 2025. The FDP was organized to equip faculty members and researchers with essential data visualization skills using Microsoft Power BI, focusing on practical applications in teaching, research, and decision-making.

The program commenced with an inaugural session featuring distinguished speakers, including Dr.Sameeruddin Khan,Pro-Vice Chancellor & Dean(PSCS&PSIS) ,Dr.Shakeera L,Associate Dean-PSCS,Dr.Pravinth Raja-HOD(PSCS), who emphasized the growing importance of data visualization in various domains

DeepSeek:How it works, what it means ?

The event **"DeepSeek and Beyond: Fortifying Data Security in the Era of GenAI"** highlights the rise of DeepSeek, a Chinese generative AI model, and its impact on data security. While DeepSeek stands out for its advanced capabilities and cost-effectiveness, concerns about data privacy and security have surfaced due to its rapid adoption. The event explores strategies to safeguard sensitive information, addressing risks such as unauthorized data access and regulatory compliance. Experts will discuss robust security measures to mitigate these threats, ensuring safe AI integration. This forum serves as a crucial platform for navigating the balance between AI innovation and data protection.
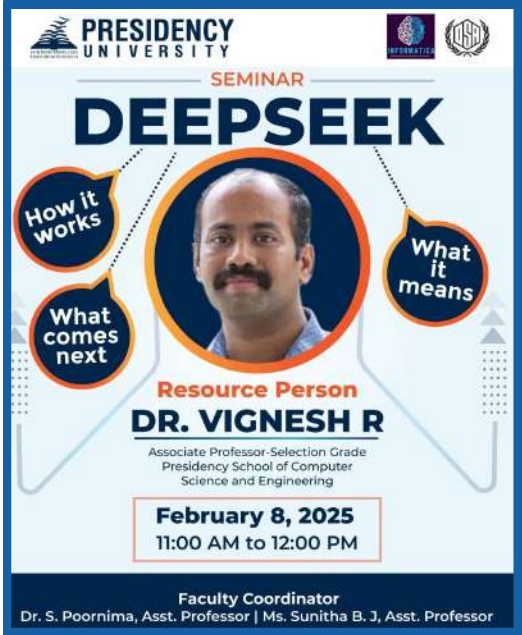
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DRDO sponsored national level seminar on Next Generation Digital Security in Defence with Quantum Artificial Intelligence and Decentralized Blockchain Solutions

Presidency School of Computer Science and Presidency School of Information Science conducted 2 days DRDO Sponsored National Seminar on Next-Gen Digital Security in Defence on 23-24 Jan 2025 brought experts together to discuss AI, quantum computing, cryptography, and blockchain security. Dr. Narayan Panigrahi explored AI's role in defence, followed by Dr. Mostafizur Rahaman on quantum computing's encryption potential. Dr. H. Aswath Babu delved into quantum cryptography and secure communication, while Dr. Jayakumar Vaithiyashankar addressed quantum algorithms and cyber threats, providing a comprehensive security outlook.

The seminar fostered insightful discussions on quantum security, AI-driven defence, and blockchain, enriching participants' understanding and reinforcing the need for innovation in digital defence.

The event was coordinated by Dr. Jai Singh W, Dr. D. Sivabalaselvamani and Mrs. D. Divyashree from SoIS

DEPT NEWS

Mastering Cloud and Microservices: Foundations for Scalable Solutions

The IOTVA Club and Innosphere - Data Science Club organized a Faculty Development Program (FDP) titled "Mastering Cloud and Microservices: Foundations for Scalable Solutions" from January 27-31, 2025. Conducted online, the event featured expert speakers Dr. Mohan B A and Dr. Swetha M S, who provided insights into cloud computing and microservices.

The sessions focused on deploying scalable solutions, integrating cloud concepts into teaching, and preparing faculty for industry-relevant technologies. Faculty from various institutions, including Presidency University, actively participated, gaining hands-on experience and valuable knowledge for research and teaching advancements.

From Mini-Project to Research Publication – A Student's Path to Achievement

Presidency University's School of Computer Science and Engineering & Information Science organized a Student Development Program titled "From Mini-Project to Research Publication – A Student's Path to Achievement" on December 6, 2024. The session was conducted by Mr. Pakruddin B, Assistant Professor, Dept. of CSE, PU, and focused on guiding students in transforming their mini-projects into quality research publications. Held at UF-02, the event provided insights into research methodologies, publication processes, and academic writing. The program aimed to empower students with essential skills for academic and professional growth.

UPCOMING EVENTS

01 March, 2025

Webinar on Hands on with Amazon web Service (AWS)

01 March, 2025

Workshop on Big Data: From Collection to Actionable Insights

05 March, 2025

Workshop on Federated Learning

10 March, 2025

5 Days FDP on Blockchain Security Best Practices: Ensuring Safe Transactions

21 March, 2025

SDP on Quantum computing and its implications for AI

28 March, 2025

Webinar on Site Reliability Engineering (SRE): Best Practices and Strategies

GUESS THE KEY OFFICIAL

STUDENT'S CORNER

Alumni Spotlight: The Quantum Journey of H. R. Jeevitha

⭐ **Young Presidencians, Meet Our Proud Alumnus!** ⭐

We take immense pride in introducing Ms. H. R. Jeevitha [2020IST0001], a distinguished alumnus of our university. A B.Tech graduate of the Class of 2024, she completed her degree with distinction, setting an inspiring example for aspiring technologists.

Jeevitha's journey into quantum computing began in her third year, under the mentorship of Dr. Jayakumar Vaithiyashankar. Her passion for the field led her to earn an AICTE-NPTEL ELITE certification and multiple other recognitions. She further deepened her expertise by attending the Q Karyasala workshop at IISc Bengaluru, a Government of Karnataka-funded initiative, in June 2024. This experience played a pivotal role in shaping her career.

Her dedication and skill earned her a prestigious role as a Project Engineer at CDAC, contributing to India's advancements in the quantum domain. Grateful for the support she received, she acknowledges the guidance of Dr. Md. Sameerudeen Khan, Dr. Pallavi R and Mr. Jinesh, along with her mentors and faculty.

A Message to Young Minds

Jeevitha's journey is a testament to the power of focus, perseverance, and passion. Young innovators today have an abundance of energy and potential —when channeled correctly, it can lead to extraordinary achievements. By embracing discipline and continuous learning, they can turn aspirations into reality and redefine the future of technology.

Let her story be a motivation for many more to explore, learn, and contribute to cutting-edge fields.

Paris AI Action Summit 2025: Balancing Innovation & Ethics

⭐ **Balancing Innovation & Ethics** ⭐

In the fast-evolving world of technology, Artificial Intelligence (AI) has become a transformative force in healthcare, finance, and cybersecurity. However, its rapid adoption raises concerns about bias, security, job displacement, and transparency.

On February 10–11, 2025, the Paris AI Action Summit brought together world leaders, tech executives, and researchers from 50+ countries at the Grand Palais, France. This third global AI summit, following the AI Safety Summit (UK, 2023) and AI Seoul Summit (South Korea, 2024), focused on AI governance, trust, innovation, and its impact on work and society.

Key AI Concerns & Global Perspectives

◆ Bias in AI – AI may favor certain demographics in hiring due to biased training data. Cecilia Bonefeld-Dahl emphasized the need for fairer, more transparent AI models.
◆ Job Displacement – AI-driven automation is reducing human labor. French President Emmanuel Macron raised concerns, while India's PM Narendra Modi and U.S. VP J.D. Vance highlighted AI's role in enhancing productivity and creativity.
◆ Security & Transparency – AI-powered facial recognition and misinformation pose risks of hacking and misuse. Experts stressed the need for clearer regulations.

A Call for Responsible AI Development

The summit concluded with a commitment to global AI regulations, ethical AI use, and sustainable innovation. Leaders agreed that AI should empower, not replace, human intelligence—shaping a future where AI serves society responsibly.

Paris AI Action Summit 2025: Shaping the Future of AI

⭐ **Global AI Governance** ⭐

The Paris AI Action Summit 2025, held on February 10–11 at the Grand Palais, Paris, focused on global AI governance, ethical development, and cybersecurity. Co-chaired by French President Emmanuel Macron and Indian Prime Minister Narendra Modi, the summit emphasized international collaboration to address AI's challenges and opportunities.

Key Discussions

◆ AI Bias & Ethics – AI systems can inherit biases from training data. PM Modi stressed the need for transparency and scrutiny to ensure fairness.
◆ AI & Jobs – Concerns about AI replacing human jobs were addressed through a focus on reskilling and upskilling to prepare for an AI-driven workforce.
◆ AI in Key Sectors – AI's potential in healthcare, education, and agriculture was highlighted as a tool for sustainable development.
◆ Misinformation & Deepfakes – The risks of AI-generated misinformation were discussed, with calls for stronger regulations and safety measures.

The Path Forward

The summit reinforced the need for transparent, sustainable, and regulated AI development. Open-source AI was advocated to enhance public trust, and energy-efficient AI solutions were encouraged to reduce environmental impact.

AI is evolving rapidly, and global cooperation is key to harnessing its potential while mitigating risks. The Paris AI Action Summit 2025 set the stage for responsible AI innovation and worldwide standardization.

Ms. H. R. Jeevitha
Alumnus, CSE

Josna Jose
Student, 4CAI

Aatif Hussain Khan
Student, 4CAI

STUDENT'S CORNER

Groundbreaking research by students on Empathy AI: Revolutionizing Emotional Support with AI at CEII 2024

Tanmayee H.N., Kushie P. Gowda, and Ritu Jaiswal R., guided by Mr. Amarnath J.L, presented their groundbreaking research on "Empathy AI" at CEII 2024, Nanyang Technological University, Singapore. Their web-based assistant leverages facial recognition, voice analysis, and text interpretation to provide real-time emotional support and personalized guidance.

The AI Action Summit 2025: Defining the Future of Ethical and Sustainable AI

The AI Action Summit 2025, held at the Grand Palais in Paris on February 10-11, gathered leaders from nearly 100 countries, industry giants, and experts to discuss AI's role in innovation, sustainability, and global cooperation. Chaired by French President Emmanuel Macron and Indian Prime Minister Narendra Modi, the summit emphasized ethical AI governance and sustainable development. A key moment was the US and UK's rejection of the AI Declaration, which aimed to promote ethical AI and accessibility for developing nations. While 60 countries, including France, China, and India, supported it, US Vice President JD Vance criticized it as restrictive to innovation. Meanwhile, PM Modi championed AI's role in healthcare and education, positioning India as a leader in AI governance ahead of hosting the next summit. Discussions also highlighted AI's environmental impact, with Macron advocating for clean energy solutions. The summit underscored the urgent need for ethical, sustainable AI development worldwide.

Mohammed Mutazz Khadar
Student
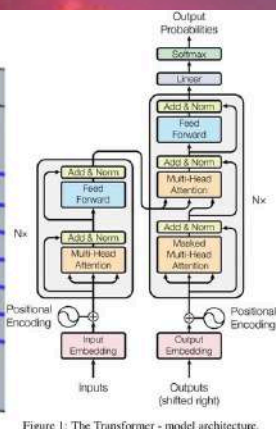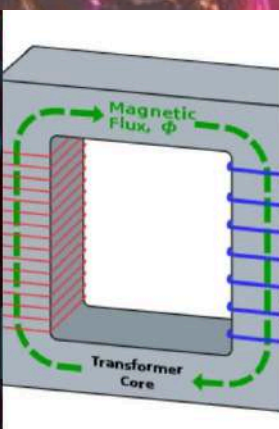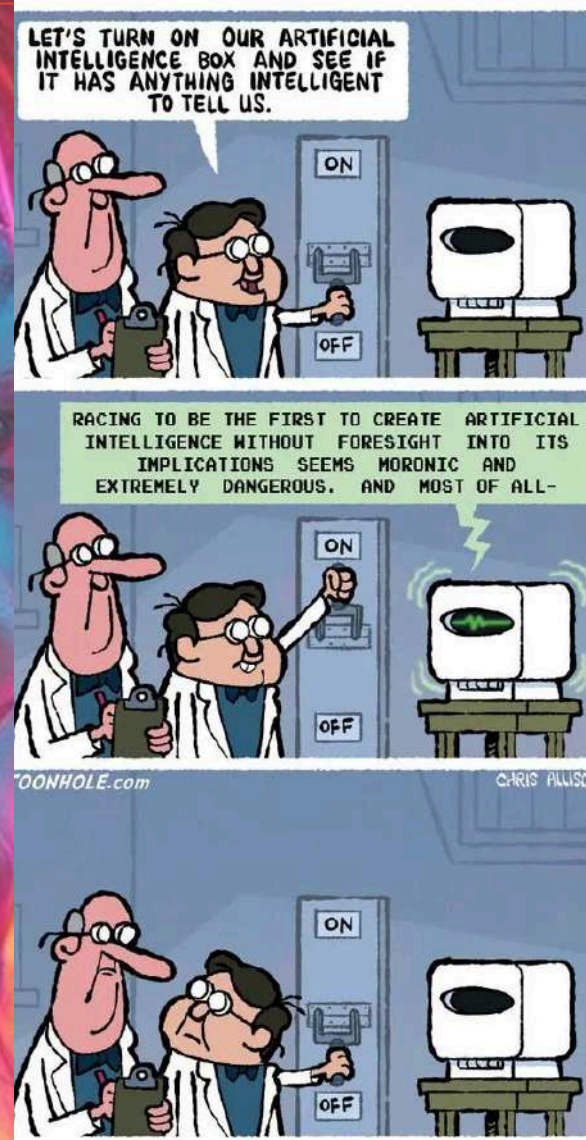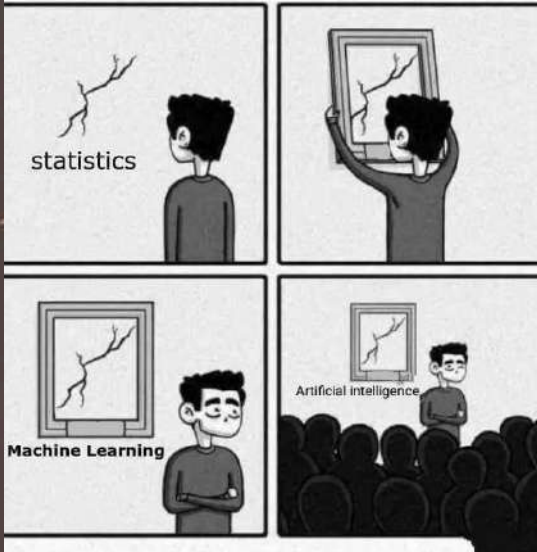
Best Seller
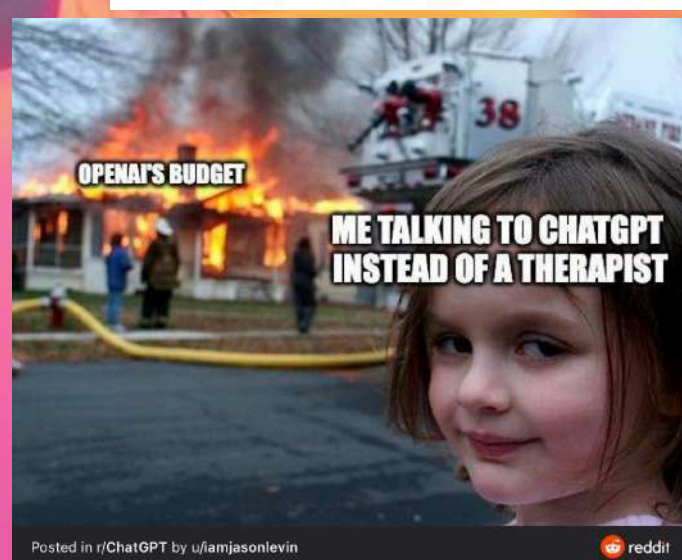
How to Win Friends and Influence People
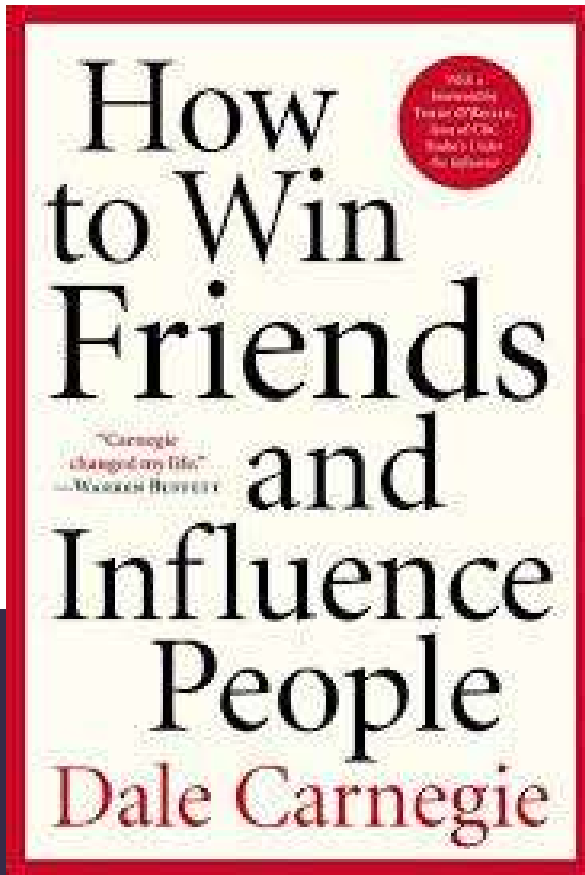
Book Review: How to Win Friends and Influence People
Author: Dale Carnegie
Genre: Self-Help, Personal Development
Rating: ★★★★★ (5/5)

Dale Carnegie's How to Win Friends and Influence People is a timeless guide to improving communication, building relationships, and gaining influence. Since its publication in 1936, the book has remained a go-to resource for those seeking success in personal and professional life. Carnegie's principles focus on human psychology, offering practical techniques to win people over and foster meaningful connections.

Key Principles

- **Show Genuine Interest in Others** – People appreciate being valued and heard.
- **Smile and Use People's Names** – Creates an instant connection and makes others feel important.
- **Avoid Criticism and Condemnation** – Encouragement works better than pointing out faults.

- **Give Honest and Sincere Appreciation** – Recognizing efforts boosts morale and goodwill.
- **Win Arguments by Avoiding Them** – Proving someone wrong can harm relationships; diplomacy is key.
- **See Things from the Other Person's Perspective** – Empathy strengthens relationships and resolves conflicts.

Strengths of the Book

- Simple, practical advice that is easy to implement.
- Filled with real-life examples and case studies.
- Timeless principles that apply to personal and professional life.
- Focuses on emotional intelligence and positive communication.

Criticism & Limitations

- Some techniques, like flattery and making others believe an idea is theirs, may seem manipulative.
- Certain examples feel outdated, though the core lessons remain useful.

Final Verdict

- A must-read for anyone looking to improve communication, leadership, and social skills.
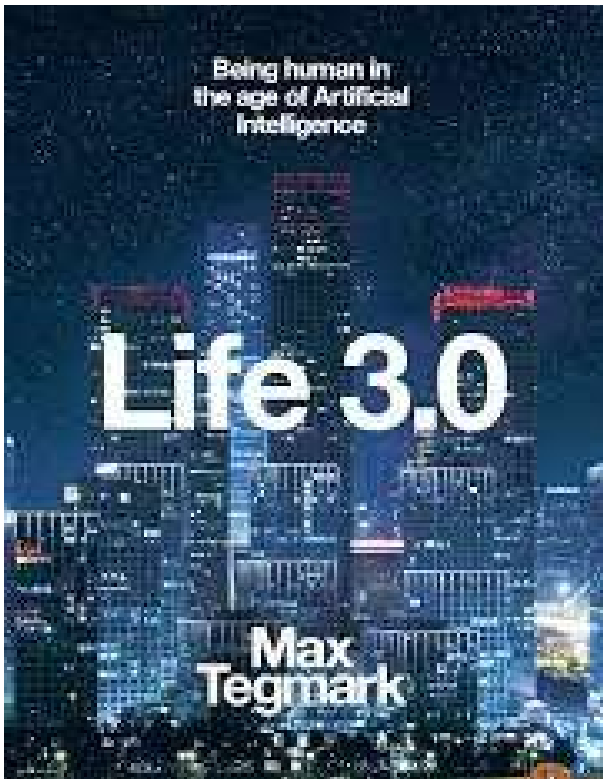
LIFE 3.0: BEING HUMAN IN THE AGE OF ARTIFICIAL INTELLIGENCE

BOOK REVIEW: LIFE 3.0 : BEING HUMAN IN THE AGE OF ARTIFICIAL INTELLIGENCE
AUTHOR: MAX TEGMARK
GENRE: TECHNICAL
RATING: ★★★★★ (5/5)

Max Tegmark's Life 3.0 is a compelling exploration of artificial intelligence and its potential impact on humanity. The book discusses AI's possibilities, risks, and ethical challenges in an engaging and accessible manner.

Strengths:

- Clear and engaging writing makes complex AI concepts understandable.

- Balanced perspective on AI's opportunities and threats.

- Well-researched insights from multiple disciplines.

Key Themes:

- Stages of Life: Tegmark defines Life 1.0 (biological), Life 2.0 (cultural), and Life 3.0 (technological self-evolution).

- Future Scenarios: Presents both utopian and dystopian possibilities for AI's role in society.

- Ethical Concerns: Explores AI governance, alignment with human values, and risks of superintelligence.

Conclusion:

Life 3.0 is a thought-provoking read for anyone curious about AI's future and its impact on society.

THE WRAP UP
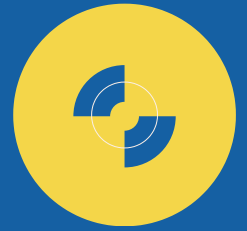
As we conclude this edition of The Communique, we reflect on the transformative impact of Artificial Intelligence (AI) and Machine Learning (ML). From revolutionizing healthcare to reshaping gaming, cybersecurity, and research, AI is at the forefront of technological evolution.

Key Takeaways from This Edition:

- AI Ethics & Responsibility – Ethical AI development is crucial to prevent bias, ensure transparency, and protect user privacy.
- AI in Gaming & the Metaverse – Intelligent NPCs and AI-driven virtual worlds are creating immersive and personalized gaming experiences.
- AI & Cybersecurity – While AI strengthens security defenses, it also introduces new cyber threats, making vigilance key.
- The Future of AI in Research & Development – AI-powered automation is advancing scientific breakthroughs, but funding and collaboration challenges persist.
- AI's Role in Software Development – Rather than replacing programmers, AI is enhancing coding by automating repetitive tasks and enabling developers to focus on creative problem-solving.
- The Infinite Scroll & Digital Consciousness – AI-driven content loops are reshaping how we consume information, raising questions about attention control and digital well-being.

Final Thoughts

AI and ML are more than just technological advancements; they are catalysts for a new era of innovation. However, their power comes with responsibility. By embracing AI ethically and strategically, we can harness its potential for a smarter, more sustainable, and equitable future.

As we look ahead, the key question remains: Are we shaping AI, or is AI shaping us?

Thank you for joining us in this exploration of AI's role in our world. Stay curious, stay informed, and lead the change.

THE COMMUNIQUE

VOLUME 1 ISSUE 3