



# AI Pulse

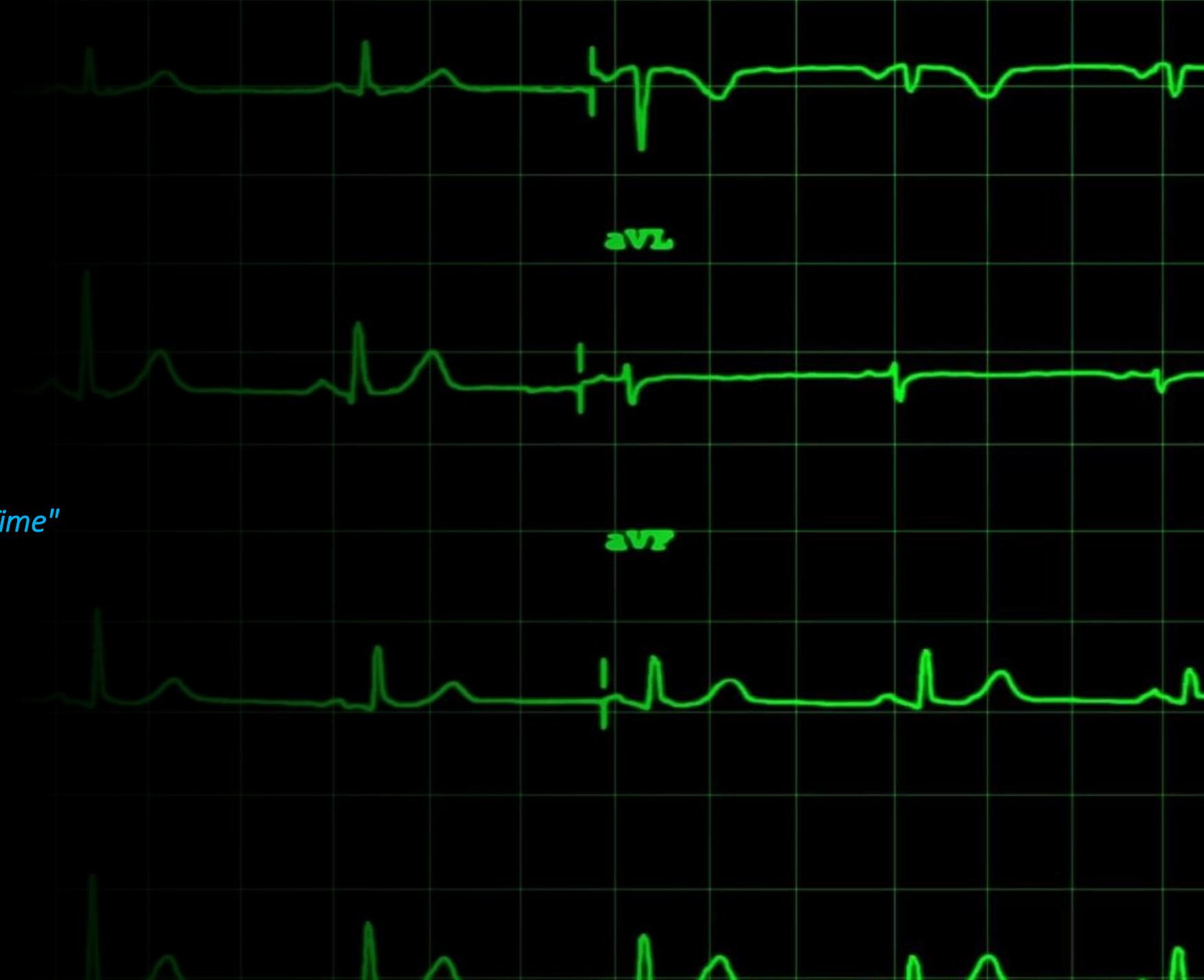
November 2025

*"Demystifying AI, One Update at a Time"*

*AI Pulse is brought to you with the best compliments of*

*Er. Prof. Adv. Rtn. G. Surender Reddy*

*National Convenor, Me@AI India Initiative*





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# Editorial

Welcome to the November 2025 edition of **AI Pulse**. As artificial intelligence continues its rapid stride across industries and societies, this month stands out as one of transition and reckoning: we see deep shifts in investment flows, rising regulatory engagement, and growing urgency around skill-disruption and social equity. For India in particular, the spotlight is on how we move from promise to practice—how global players see India, how Indian talent and infrastructure respond, and how our policy ecosystem begins to catch up.

In this issue, we first zoom out to global trends—investment surges, emerging use-cases, workforce shifts. Then we bring it home to India: major announcements, what it means for jobs and startups, and how India is positioning itself. Finally we explore the ethics and policy dimension: the challenges of generative AI, new regulatory drafts, and how India’s unique social context adds layers of complexity.

As always, our goal is to demystify key developments, provide actionable insights, and help you engage more intelligently with the AI wave—whether you’re a student, professional, policymaker or simply a curious citizen. Happy reading, and we hope you’ll share your thoughts and feedback.

Warmly,

**Dr. D. Samarender Reddy**

Editor

A stylized globe with a network overlay. The globe is rendered in a dark red color with a grid of latitude and longitude lines. Overlaid on the globe is a complex network of glowing yellow and white nodes connected by thin lines, representing global connectivity or data flow. The text "Global Trends" is centered in a bold, yellow font.

# Global Trends

# Big Investment Bets

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Google (Alphabet) announced a massive investment – about US \$15 billion over five years—to build a major AI hub in India (Visakhapatnam).

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More broadly, the same announcement is part of a wider \$24 billion AI infrastructure spend by Google globally, with India as the major beneficiary.

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**Why this matters:** Large-scale infrastructure means not just more data centres and compute, but strategic bets on talent, connectivity and AI-ecosystems. For India it means the world is taking notice.

# Workforce and Job Disruption Intensifies



Global firms are already announcing layoffs where workers were unable to reskill into AI-centric roles. For example, Accenture laid off thousands citing inability to shift to AI-led roles.



According to the NITI Aayog report, while India's tech & CX (customer-experience) sectors face risk of job displacement, they also hold the potential to create up to 4 million new "AI first" jobs over the next five years.



**Why this matters:** It underlines a key point: AI is not just a tool, but a labour-market disruptor. For professionals, staying static is risky; for India the race is on to reskill and absorb talent.

# Generative AI Mainstreaming and Use-case Spread

- A recent review lists “generative AI goes mainstream — text, image, music and video generation on-demand embedded in apps, design tools, healthcare planning systems” as one of the seven big trends of 2025.

**Why this matters:** What used to be niche or experimental is now increasingly in everyday workflows. That means opportunities—and risks—are scaling rapidly.



# Global Optimism, Regional Divides

- According to the Stanford Human-Centered AI Institute AI Index Report 2025, optimism about AI is rising globally, but with major regional differences. For example: China (83% optimistic), Indonesia (80%), Thailand (77%) versus Canada (40%), US (39%).

**Why this matters:** The divide suggests that how AI is perceived and adopted is not uniform—it depends on local socio-economic, cultural and regulatory contexts. For Indian users, this means being aware of both the global momentum and local readiness.





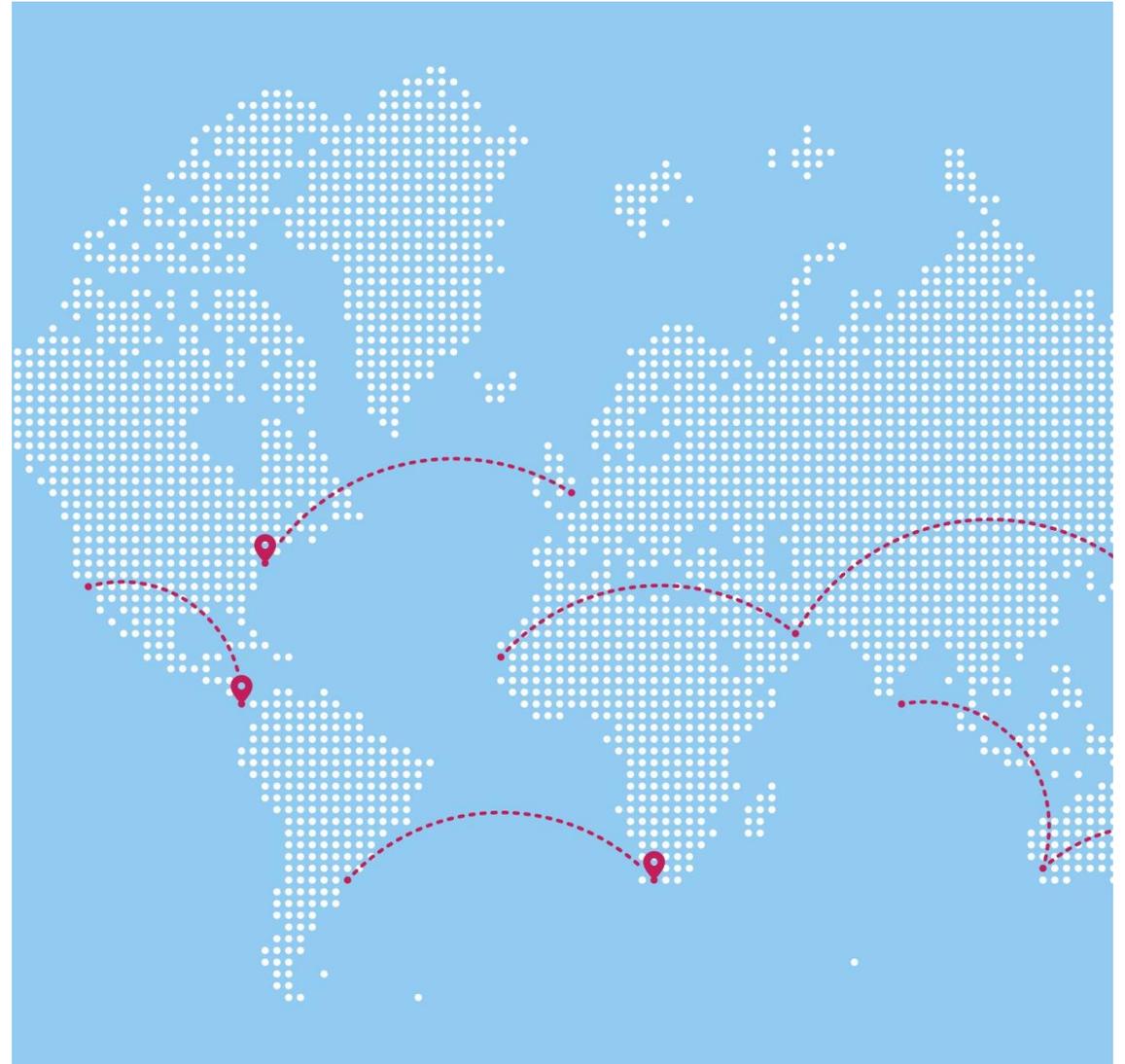
# India Spotlight

# India as AI Investment and Talent Magnet

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- The Google AI hub announcement (already mentioned) places India firmly on the global map for AI infrastructure and talent.
- Meanwhile, Anthropic (a major AI startup) announced that it will open its first India office in early 2026 (in Bengaluru), signalling the growing importance of India as both market and base.

**Implication:** For Indian students, professionals and startups, this is a signal: India is not just consumer-market, but increasingly a production-hub for AI globally. Being prepared matters.



# Jobs, Skills and Disruption in India

As noted, the NITI Aayog roadmap flags both risk and opportunity: India's tech & CX sectors can see displacement of routine roles—but also creation of new “AI-first” jobs.

**Take-away for individuals:**  
Upskilling in AI-adjacent skills (data literacy, prompt design, AI tool usage, human-in-the-loop workflows) is increasingly non-optional.

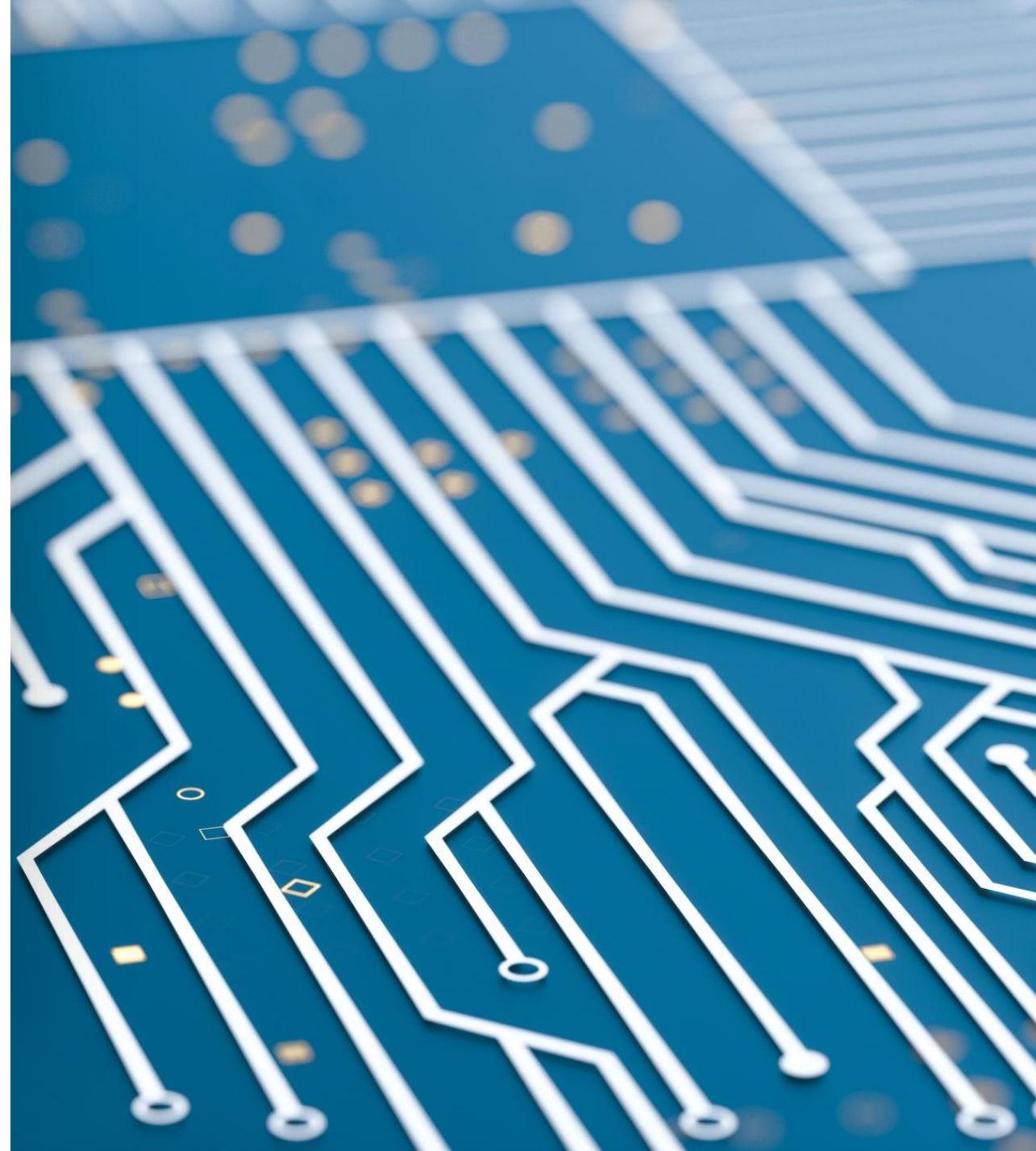
**Take-away for organisations:**  
Enterprises should start thinking not only about automating but about how their workforce evolves alongside AI.

# Regulatory and Ecosystem Moves

- The Ministry of Electronics & Information Technology (MeitY) in India has released draft amendments to the IT Rules (2021) that would require strong labelling of AI-generated content (e.g., visual markers covering 10% of image surface, metadata traceability) and invited public feedback until 6 Nov 2025.

**Why this matters:** The labelling requirement is among the first of its kind globally (in terms of quantifiable standard) and will directly shape how generative-AI content is seen/used in India.

**Ecosystem point:** Startups, platforms, app-builders in India must start anticipating compliance, traceability and transparent frameworks.



# A Few Emerging Use-cases



While not entirely new, the pace of generative AI across sectors is rising—India’s startups and enterprises are beginning to embed generative tools in design, healthcare, customer-service workflows. (Refer global trends above.)



There is also increased discussion (in academia) about AI for sustainability: e-waste management platform “Green Grid” (AI + IoT + blockchain) to address India’s ranking as third-largest e-waste generator (1.7 million tonnes 2023-24).



**Why this matters:** These developments illustrate that AI in India is not just about apps and chatbots—it is moving into harder domains (infra, sustainability, circular economy). That means opportunities for cross-disciplinary skills.



# Ethics & Policy

# Label-led Regulation of Generative Content

- The “how” and “should” of AI are now coming into sharper focus—in India and internationally.
- As noted above, the draft IT-Rules amendments by MeitY aim to force platforms to label AI-generated content, enforce metadata traceability, and impose visible markers (10% of image surface or first 10% of audio clip).

## **Key ethical questions:**

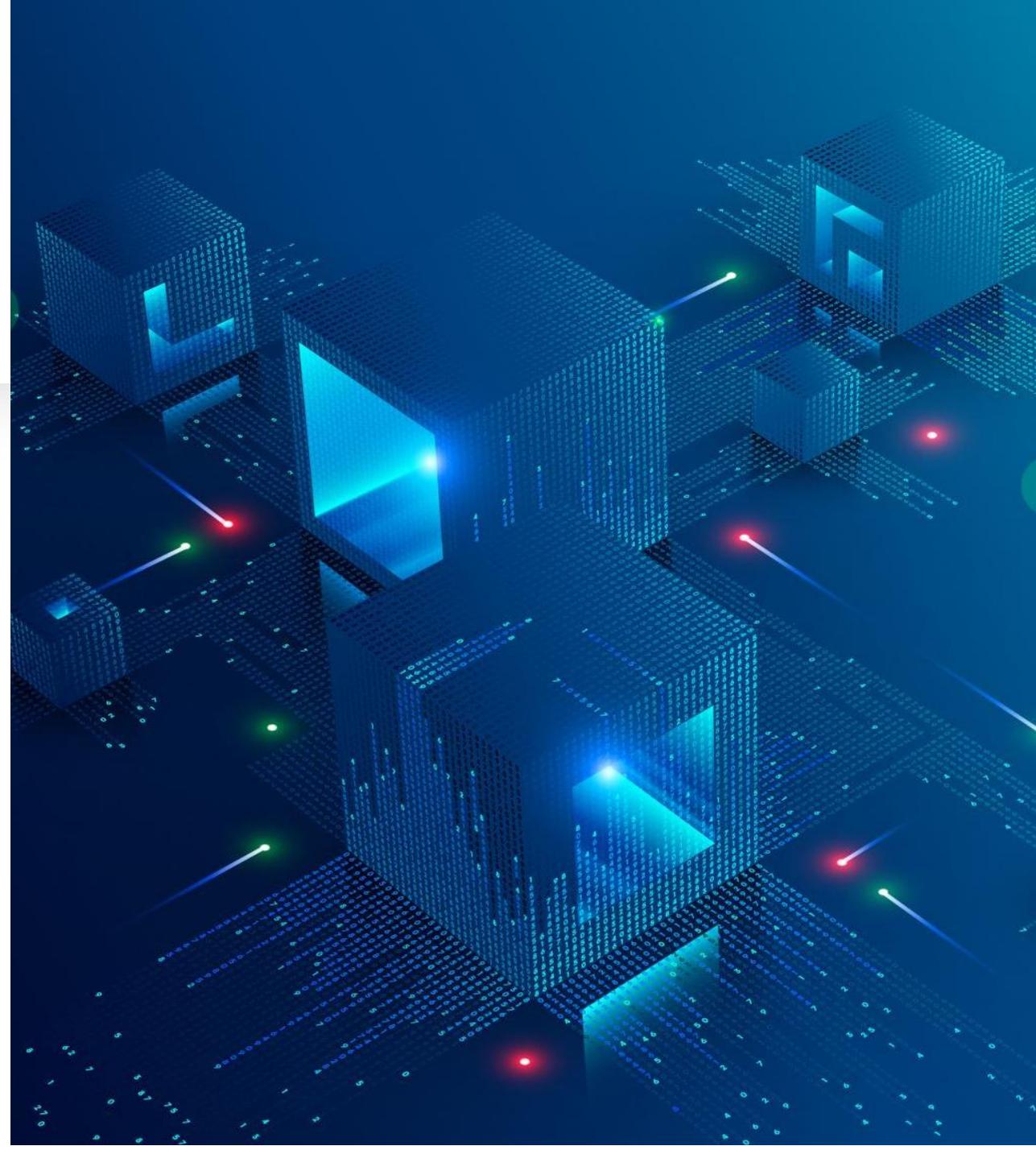
- How will “AI-generated” be defined in practice (what about partially-AI, human+AI hybrids)?
- What are the costs/risks for smaller platforms/startups in implementing such labelling/tracing?
- Could this regulation stifle innovation (by imposing heavy burdens) or promote trust (by raising transparency)?

**Implication for readers:** As consumers, one should become aware that some content may be labelled AI-generated—and consider how to verify it; as professionals/organisations, compliance is imminent.

# Governance Frameworks and Incident-reporting Gaps

- India's AI governance architecture is evolving: The National Cyber & AI Centre (NCAIC) released an "AI Governance Framework for India 2025-26" earlier this year (Sept) outlining risk-taxonomy, lifecycle controls and assurance aligned with global standards.
- In parallel, academic work points out that India currently lacks strong mechanisms for AI-incident reporting (e.g., algorithmic bias, system failure within telecom/AI systems) and recommends mandating reporting for high-risk AI failures, standard frameworks and a nodal agency.

**Why that matters:** Governance is not just about high-level principles—it is about operationalising oversight, incident response, transparency and accountability. If India wants to be a global AI hub, governance credibility will matter.



# Ethics Education and Societal Inclusion



A RECENT SYLLABUS-LEVEL REVIEW FOUND THAT IN INDIA ONLY ABOUT 2.2% OF COMPUTING-RELATED SYLLABI COVERED SUBSTANTIVE AI ETHICS CONTENT; ETHICS MODULES, WHEN PRESENT, WERE SMALL AND OFTEN TUCKED INTO TECHNICAL COURSES RATHER THAN STANDALONE.



**WHY THAT MATTERS:** AS AI SPREADS INTO EVERYDAY LIFE (HEALTHCARE, JUSTICE, EMPLOYMENT), TECHNOLOGISTS NEED A DEEPER GROUNDING IN ETHICS—NOT JUST “HOW TO BUILD” BUT “SHOULD WE BUILD”, “HOW WILL IT AFFECT SOCIETY”.



**FOR INDIVIDUALS/EDUCATORS:** THERE IS AN OPPORTUNITY AND RESPONSIBILITY TO PUSH FOR RICHER ETHICS MODULES—ESPECIALLY IN INDIAN CURRICULA WHERE SOCIETAL DIVERSITY AND INCLUSION ISSUES ARE ACUTE.



# The Inclusion and Equity Lens

- India's social context adds specific pressures: language diversity, digital-divide, regional and socio-economic inequalities. The global standards (for example UNESCO's Recommendation on the Ethics of Artificial Intelligence) emphasise fairness, transparency, human oversight.
- India must therefore ask: when AI is integrated in governance, healthcare or education, how do we ensure it doesn't replicate or amplify existing divides (urban vs rural, Hindi/English vs regional languages, formal vs informal sectors)?

**Recent signal:** The draft labelling rules and infrastructure investments are positive—but only if they are matched with inclusive access, regional language capability, and protections for vulnerable groups.

# Closing Thoughts

# Closing Thoughts

The month ahead will likely bring more announcements, more regulatory clarity, and a further acceleration of AI use in India and globally. For us in India the key questions to watch will be: **How quickly can Indian universities, startups and workforce adapt to this wave? How will regulation balance innovation with trust? And how will AI be shaped by India's unique socio-technical context—not just imported but indigenised?**

We hope this issue helps you stay ahead of the curve. As always, you're encouraged to reach out with your views, experience using AI tools, or your questions about how this wave might impact you personally or professionally.

Until next month—stay curious and stay critical.

