



SUSTAINABLE DEVELOPMENT GOALS

Aligned with SDG 4, SDG 9 & SDG 17 - Promoting Quality Education, Innovation, and Strong Industry-Academia Partnerships.



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TECH DOSE

APRIL 2026



TECHNICAL COMMITTEE
DEPARTMENT OF COMPUTER APPLICATION

1. AI Conflict: Elon Musk vs OpenAI

This major conflict raised serious questions about who should control artificial intelligence in the future. Elon Musk criticized OpenAI for shifting from a non-profit mission to a profit-driven company. OpenAI responded by stating that rapid development is necessary to compete globally. This situation triggered debates worldwide about AI governance. Governments are now considering stricter regulations. The issue highlights the importance of balancing innovation with responsibility.

Source: Reuters

3. AI Creativity Revolution by Adobe

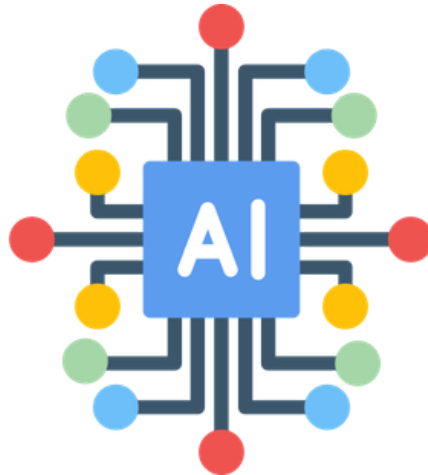
Adobe introduced advanced AI features in tools like Photoshop and Premiere Pro. Users can now generate images, edit videos, and design content using simple text instructions. This has made creative work faster and more accessible to beginners. Professionals can also save time and increase productivity. However, it raises concerns about originality and copyright issues. The creative industry is undergoing a major transformation due to AI.



Source: Reuters Technology

2. Advanced AI Models (GPT-5.4 & Claude Mythos)

New AI models released by leading companies demonstrated powerful reasoning, coding, and analytical abilities. These systems can perform complex multi-step tasks and assist professionals in various industries. Businesses are increasingly automating workflows using these tools. However, concerns about job displacement and over-dependence on AI are rising. These models mark a significant step toward human-like intelligence. Their development shows how fast AI technology is evolving.



Source: The Hindu / Digital India / Reuters

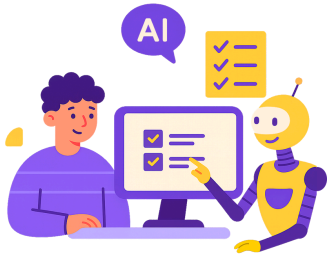
4. Brain-Computer Interface Breakthrough



Scientists successfully connected artificial neurons with human brain cells, allowing communication between digital systems and biological brains. This breakthrough could help people with disabilities regain movement or communication abilities. It also opens the possibility of mind-controlled devices. However, it raises ethical concerns about brain data privacy and misuse. This technology could change how humans interact with machines in the future.

Source: Digital India / Business Sweden

5. AI vs Cybersecurity



Artificial intelligence is now being used to detect vulnerabilities in systems faster than humans. At the same time, cybercriminals are using AI to create more advanced attacks. This has created a new type of digital conflict. Organizations must invest in AI-based security systems to stay protected. Cybersecurity has become one of the most critical challenges globally. The balance between defense and attack is becoming more complex.

Source: Reuters / TechCrunch

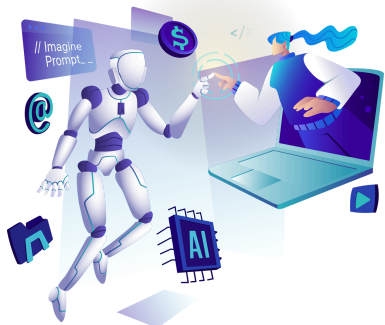
6. Rising Technology Costs

The increasing demand for AI hardware such as chips and memory has led to higher production costs. Companies like Meta raised prices of their VR devices. This shows how AI is affecting global supply chains. Consumers are now paying more for advanced technology products. The cost of innovation is increasing. This trend may impact accessibility of future technologies.



Source: United Nations / Reuters

7. AI Chip Boom



Demand for AI chips has grown rapidly due to machine learning and data center expansion. Companies like Intel and Samsung are leading this growth. These chips are essential for training and running AI systems. Governments are also investing heavily in semiconductor manufacturing. The chip industry has become a strategic and economic priority. It plays a crucial role in the global tech ecosystem.

Source: Nature Medicine / Science News

8. Real-World Robots Deployment



Robots are now being used in real-world environments such as warehouses, delivery services, and manufacturing. They are improving efficiency and reducing human effort in repetitive tasks. However, this also raises concerns about job loss in certain sectors. Robotics technology is advancing quickly. It is becoming an essential part of modern industries. The future workforce may include more collaboration between humans and machines.

Source: NASA / Space.com

9. NASA Artemis II Mission

NASA is preparing for its Artemis II mission, which aims to send astronauts around the Moon. This mission is part of a larger plan to establish a long-term human presence on the Moon. It represents a major step in space exploration. Private companies are also getting involved in space technology. This could lead to space tourism and new economic opportunities. Space exploration is entering a new era.



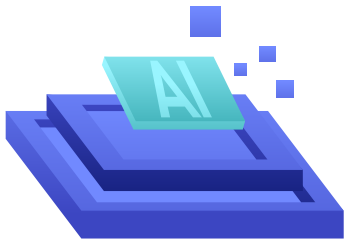
Source: European Space Agency

10. Apple Leadership Shift



Reports about leadership changes at Apple created uncertainty in the tech world. Such changes can influence the company's future direction. Apple may focus more on artificial intelligence and mixed reality technologies. Leadership decisions play a key role in innovation. Investors and competitors are closely watching these developments. The future strategy of Apple may evolve significantly.

Source: Nature Climate Change



11. Energy-Efficient AI Chips

New AI chips are being designed to consume less power while delivering high performance. This helps reduce the environmental impact of large data centers. Energy efficiency is becoming a major priority in technology. These chips make AI more sustainable and scalable. They also reduce operational costs. This innovation supports the long-term growth of AI systems.

Source: Science Magazine

12. Growth of AI Coding Tools

AI tools are transforming software development by helping developers write and debug code faster. These tools improve productivity and reduce errors. Developers now need to adapt to AI-assisted workflows. The role of programmers is evolving. Learning how to use AI effectively is becoming essential. This trend is reshaping the software industry.



Source: Nature Biomedical Engineering

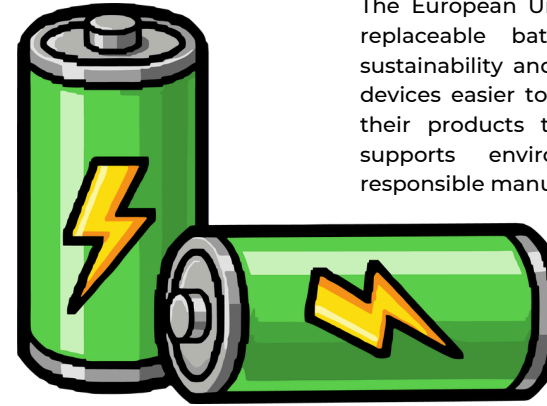
13. Increase in Cyber Threats

Global cyber threats have increased significantly, with more frequent and complex attacks being reported. Governments and organizations are strengthening their security systems. Protecting personal and sensitive data has become crucial. Awareness about cybersecurity is growing. Digital trust is an important factor in modern society. Strong security measures are necessary to prevent risks.

Source: The Lancet / Nature Medicine

14. European Union Battery Rule

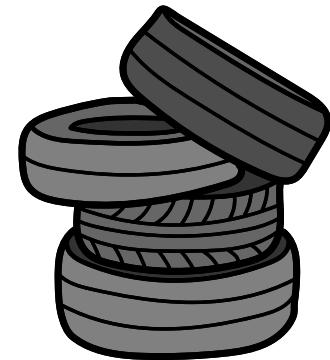
The European Union announced that devices must have replaceable batteries by 2027. This rule promotes sustainability and reduces electronic waste. It also makes devices easier to repair. Companies will need to redesign their products to meet these standards. This decision supports environmental protection. It encourages responsible manufacturing practices.



Source: MIT Technology Review

15. AI-Powered Tyres: The Future of Smart Driving

A revolutionary innovation by Pirelli is transforming the way vehicles interact with roads through its AI-based Cyber Tyre technology. Equipped with advanced sensors, these smart tyres continuously monitor parameters like pressure, temperature, and road conditions, sending real-time data directly to the vehicle's system. Univrse has further enhanced this system by integrating AI-based computer vision, allowing the tyre to analyze road surfaces and predict potential hazards in advance. This not only improves braking, stability, and traction but also enables safer and more controlled driving experiences. With future integration of vehicle-to-everything (V2X) communication, these tyres could even alert other vehicles about road dangers, marking a major step toward intelligent and connected mobility.



Source: Aajatak - April 2026

NEWS OF THE MONTH

AI Conflict – Elon Musk vs OpenAI

In April 2026, the global tech community witnessed a major controversy between Elon Musk and OpenAI. What started as a criticism quickly turned into a large-scale debate about the future of artificial intelligence.

Elon Musk, who was also one of the early supporters of OpenAI, raised concerns that the company has shifted away from its original purpose. According to him, OpenAI was created to ensure AI development remains safe, transparent, and beneficial for humanity. However, he claimed that the organization is now focusing more on commercialization and rapid expansion.

What is the Core Issue?

Should AI development prioritize speed or safety?

- Musk believes AI must be controlled and carefully developed
- OpenAI believes fast innovation is necessary for global competition

The Rising Importance of Responsible AI

As AI becomes more powerful, concerns around its impact are increasing.

Major discussion points include:

- Risk of AI acting beyond human control
- Spread of biased or misleading outputs
- Lack of clear accountability systems
- Need for ethical AI frameworks

This situation highlights why responsibility must grow alongside innovation.



Impact Beyond Tech Companies

This debate has influenced multiple sectors:

- Governments exploring new AI regulations
- Companies rethinking AI ethics policies
- Researchers focusing on safe AI development

It has now become a global issue, not just a corporate disagreement.



The Global AI Race

- OpenAI justified its approach by pointing out:
- AI development is a competitive global race
- Slowing down could give others an advantage
- Innovation is critical for future leadership

Concern:

Speed may overtake safety in the race for dominance

Why This Topic Matters

In April 2026, a major discussion emerged in the tech world after Elon Musk criticized OpenAI for moving away from its original mission of safe AI development.

According to Musk, the focus has shifted toward profit and rapid growth, raising concerns about long-term risks. In response, OpenAI stated that fast AI development is essential to remain competitive globally.

This debate quickly gained attention because it highlights critical issues like AI safety, ethics, regulation, and global control, making it one of the most impactful tech discussions of the month.

FACT :

Artificial Intelligence is expected to contribute over \$15 trillion to the global economy by 2030, making it a key driver of future growth.

AI GUARDING THE BOOTH



India's New Facial Recognition Election System

India is deploying AI-powered Facial Recognition Systems across approximately 2.20 lakh polling booths to strengthen election integrity, eliminate duplicate voting, and improve real-time verification during local body and panchayat elections. The system combines secure mobile authentication, centralized voter databases, and live AI matching to ensure every vote is genuine, traceable, and protected by intelligent digital governance infrastructure.

HOW IT WORKS

1 – Instant Capture

Live voter image captured securely at the polling booth using authorized election devices.

2 – AI Matching

Artificial Intelligence compares the live image with voter identity records available in the official database.

3 – Database Sync

Real-time synchronization with the State Voter Network server validates voter authenticity instantly.

4 – Fraud Detection

Duplicate voting attempts, identity conflicts, and suspicious entries are automatically flagged.

5 – Officer Alerts

Presiding Officers receive immediate notifications and verification prompts during anomalies.

6 – Timeout Protocol

Alternative identity verification procedures activate during network interruption or connectivity failure.



Technology Strengthening Democracy

The Facial Recognition Election System integrates AI verification, secure server architecture, encrypted synchronization, and real-time analytics to support transparent and accountable elections. The technology assists polling officials, safeguards voter legitimacy, and strengthens confidence in democratic processes through data-driven verification mechanisms.

FEATURE HIGHLIGHTS

Empowers Polling Officials

User-friendly secure devices and live verification dashboards help officials authenticate voters efficiently and accurately.



Protects Voters

Advanced facial verification reduces impersonation risks while maintaining secure identity authentication standards.



Strengthens Election Integrity

Duplicate voting and unauthorized access attempts are detected instantly through automated AI validation.



Built on Secure Infrastructure

Encrypted databases, secure cloud synchronization, and controlled access systems ensure tamper-resistant operations.



SYSTEM HEALTH STATUS

Server Status
Secure & Online

Uptime
99.98%

Average
Response Time
1.23 Seconds

India's election facial recognition ecosystem has been designed with layered security protocols, restricted operational access, encrypted synchronization, and controlled audit mechanisms to ensure secure and transparent polling operations at scale.

"Technology + Integrity + Transparency for a Stronger Democracy."