

## **ATHARVA ROBOTICS CENTER**

### **Daily News on Innovation & Technology**

23<sup>rd</sup> December, 2025

#### **AI security is fundamentally a cloud infrastructure problem, Palo Alto Networks says**

By Eric Geller, December 22, 2025

Virtually all organizations (99%) have experienced at least one attack on an AI system in the past year, according to a recent report from Palo Alto Networks. Securing cloud infrastructure could prevent many of those attacks, the report said, given how many AI workloads run in the cloud.



#### **US students make history by building first aircraft at Wright Brothers' site since 1903**

By Chris Young, December 22, 2025

One hundred twenty-two years ago, in 1902, the Wright Brothers made history by performing the first controlled, sustained, powered flight at Kitty Hawk, North Carolina. Last Wednesday, December 17, history was made again when a team of US students unveiled the first plane built in the historic location since the original Wright Brothers' creation.



#### **Government's initiatives to strengthen security of cyber ecosystem, including against ransomware and Cross-Border Cybercrime**

By Nikita Kumari, December 22, 2025

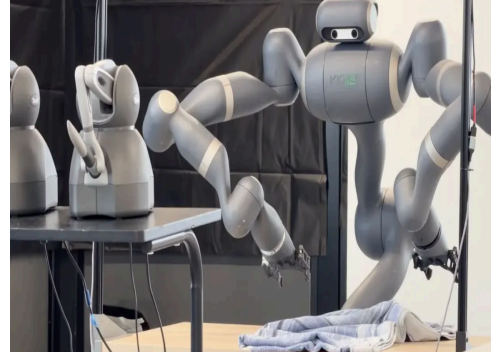
The policies of the Government of India aim to ensure a safe, trusted, and accountable cyberspace. It remains vigilant and fully conscious of the cyber threat to India's digital infrastructure. Indian Computer Emergency Response Team (CERT-In) and National Critical Information Infrastructure Protection Centre (NCIIPC) work continuously to safeguard digital services, including the critical sectors.



### [Muscular humanoid robot folds towel autonomously after watching human](#)

By Atharva Gosavi, December 22, 2025

US robotics startup Kinsi Robotics released a new video last week showcasing its KR-1 robot folding a towel while explaining and demonstrating how it was trained to perform the task autonomously. The task involved picking up a towel from random positions on a table and folding it neatly, as humans do.



### [World's first space junk insurance could shield satellites from orbital threats](#)

By Mrigakshi Dixit, December 22, 2025

In the dangerous environment of Low Earth Orbit, even tiny, non-trackable fragments act as high-speed missiles. This invisible threat has long remained a massive, uninsurable risk for satellite operators.



### [Mass-production of low-cost humanoid robot butlers begins at Chinese firm](#)

By Kaif Shaikht, December 22, 2025

A newly released footage of Zerith Robotics shows an army of its H1 service humanoids. This is at a time when the company is moving rapidly from development into large-scale commercial deployment.



### [Decoration to dinner chaos: Videos show Christmas robots take over holiday prep](#)

By Jijo Malayil, December 22, 2025

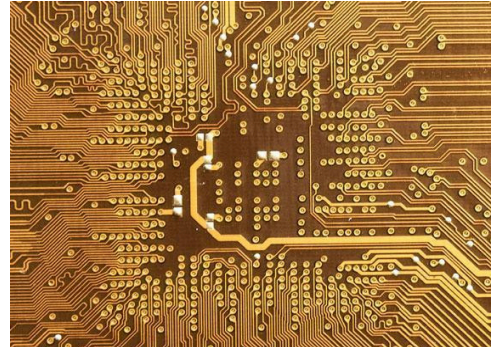
As Christmas nears, robots and autonomous machines are stepping in to set up festive décor and prepare meals, signaling a future where holiday traditions meet automation.



### [Viettel talks with Nikon and TEL in preparation for national semiconductor plant](#)

By John Tanner, December 23, 2025

Vietnamese telecoms player Viettel said it has held “high-level bilateral working sessions” with Japanese companies Nikon Corporation and Tokyo Electron Limited (TEL) as part of its preparation to help build Vietnam’s first domestic semiconductor manufacturing plant.



## News Articles

# Data Centre Certification Push to be Tailored to Make it AI Ready

MeitY works on specific norms for AI-ready facilities, to make new standards part of policy

**Subhayan Chakraborty**

**New Delhi:** The government is in favour of tweaking the certification framework it has been developing for data centres to suit the emerging requirement of facilities catering to the massive computational demands of artificial intelligence, officials told ET.

The development takes place amid a booming investment cycle for data centres in India.

The Ministry of Electronics and Information Technology (MeitY) is working on establishing national standards for operations and maintenance of AI data centres, which have vastly different requirements than traditional data centres. These facilities require five times higher power and 10 times more water; according to industry estimates. Also, the floor should support 20 times more weight per unit area than that of other data centres.

The Standardisation Testing and Quality Certification Directorate under MeitY had been working on establishing standards for data centre operations and maintenance, an official said. "But the advent of AI data centres has changed the physical metrics and security risks of these facilities. To accommodate these, consultations have been held with the Telecom Regulatory Authority of India, Telecommunication Engineering Council and other central agen-

cies." The industry is also seeking specific operational guidelines, he added.

"The government can implement a Make in India mandate for something as critical to national security as data centres. We would be open to guidelines that ensure there is optimal use of indigenous technology. We would also welcome a move by the government to prioritise op-

erators who are using more renewable energy," an executive at a Mumbai-based data centre operator said, also on condition of anonymity.

Some other industry insiders who took part in the latest consulta-

**ET Insight**

**While hyperscalers have their own playbook for setting up data centres, smaller players would benefit from fixed standards**

tions said while hyperscalers have their own playbook for setting up data centres, other players would benefit from fixed standards.

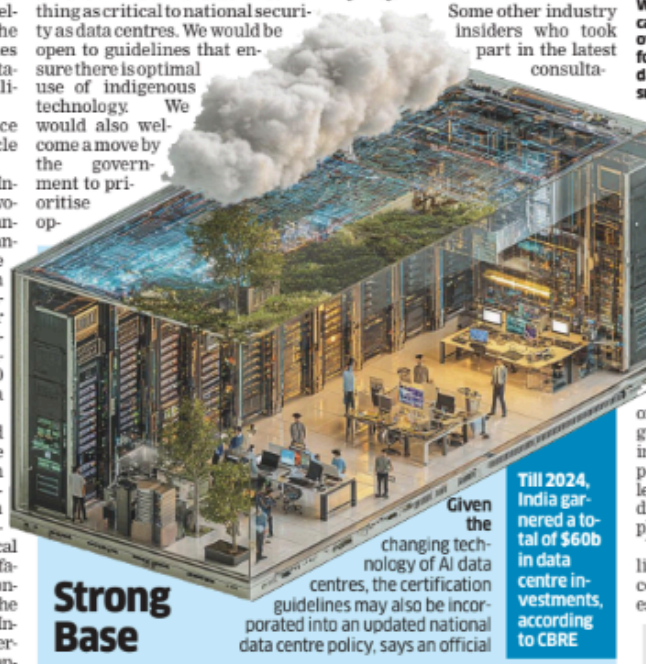
"In terms of security norms, there needs to be provisions for better protecting fibre lines connected to data centres. The facilities are connected systems, massively using Internet of Things allowing remote monitoring and operation of equipment. How we stop bad actors from accessing these is also an important question," an executive said.

**NATIONAL POLICY AWAITED**

"Given the changing technology of AI data centres, the certification guidelines may also be incorporated into an updated national data centre policy," the first official said. Released back in November, 2020, the draft national policy is yet to be implemented.

Until 2024, India received \$60 billion in data centre investments, according to global commercial real estate advisory firm CBRE.

FOR FULL REPORT, GO TO [www.economictimes.com](http://www.economictimes.com)



Source: The Economic Times Newspaper, 23-12-2025

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Link: <https://drive.google.com/file/d/1cGu3n-0WzdTMzIqJqNSV2AwjLy5BH0I/view>

# Baby Steps to SarkarAI

New Delhi is using AI for an array of services but a consolidated approach is needed for deeper adoption, write Twesh Mishra and Subhayan Chakrabarty

The government is throwing its weight behind the use of artificial intelligence (AI) tools across roles to improve governance. According to officials, AI is being deployed by an array of ministries in functions ranging from weather forecasting, disease diagnosis and translating court documents to others such as transcribing meetings and simplifying handwritten notes to more crucial functions like process optimisation in public sector undertakings.

"AI-based tools are being used for experimental weather and climate forecasting," the minister of state (independent charge) for ministry of science and technology and earth sciences, Jitendra Singh, told ET, adding that the Advanced Dvorak Technique (ADVT) used for predicting cyclone intensity, artificial intelligence-machine learning-based foundation, hybrid (AI-Dynamical) models for weather prediction are being deployed as well. According to Singh, in addition to the research work, MusamGPT, an AI-based chatbot trained as a climate service advisor to farmers and stakeholders, is also being developed. Meanwhile, Indian Railways has directed the use of AI for handwritten notes for incoming officers. The railways have already extensively used AI-based sensor cameras for detecting unsafe train and for ensuring cleanliness in kitchens. Officials say ministries are assessing effectiveness of deploying pro versions of AI software to transcribe meetings for making minutes. One of these is the ministry of heavy industries.

"Meetings can stretch into hours, and these AI transcripts are extensively vetted before approvals," a senior official said, adding that it is consciously being limited to process orientation and not decision-making.

According to minister of state for steel Bhupathiraju Srinivasa Varma, some central public sector enterprises (CPSUs) under the administrative control of his ministry have taken up AI-based digital technologies.

The Steel Authority of India Limited (SAIL), National Mineral Development Corporation (NMDC) and MOIL Limited (MOIL) are working with process and cost optimisation models, he told Lok Sabha, adding that predictive analytics and anomaly detection systems are also being used.

Experts welcome the initiatives taken by the government but are advising a more comprehensive - whole of government - approach to deepen the use of the powerful technology. "India AI Mission has laid the right foundation - compute at scale, open datasets, language models, and responsible AI. Now, the focus should be to move decisively from pilots to production across ministries and states," said Akhilesh Tuteja, head, clients & markets, of KPMG India. "An accelerated AI adoption should focus on time bound inter ministerial adoption in priority sectors such as health, agriculture, justice, and skilling, along with last mile integration with Digital Public Infrastructure," he added.

In a key move last month, the ministry of electronics and IT, unveiled the India AI Governance Guidelines, which has set up the AI governance group led by the principal scientific advisor and includes senior officials from across ministries and regulators, such as the Reserve Bank of India, Securities and Exchange Board of India, Competition Commission of India, and institutions such as NITI Aayog.

The agenda is to build an AI incident database to enable initial cross-ministry risk assessment, develop national standards, audit mechanisms and inter-

operable tools, said an official who is part of the group. "AI is the call of the hour for India's next phase of digital governance. Yet, current adoption across government remains fragmented and largely vendor-led. To unlock its full public value, AI must be indigenously conceived around India's core governance and citizen service challenges, rather than deployed as stand-alone technology solutions," said Tammy Chakrabarty, founder and director of consultancy firm CCS.

#### THE WHOLE OF GOVERNMENT

The ministry of electronics and IT's National Informatics Centre (NIC), the government's primary technology partner, is facing a rush of requests from government departments and agencies for creating AI-based software and integrating AI functionalities into existing public-facing digital systems, ET reported earlier this month.

An ongoing push by the Centre to wean officials away from the usage of publicly available AI-based tools owned by foreign entities has

also contributed to the demand.

"Our AI resource division is now providing all our tools as part of an 'AI as a service package' to keen government users," an NIC official said.

Face verification and identification services provided by the NIC's AI Satyapikannan tool are also among other products seeing interest. Case in point, regional transport offices are using it for automating the process of renewing driver's licences, while the Interoperable Criminal Justice System (ICJS), a national platform for information sharing among courts, police, jails and forensic science laboratories is being used for suspect identification, he said.

The ministry of Panchayati Raj has written to state governments for making use of its GIS-based application called Gram Manchitra, which uses an AI-driven geospatial image analytics service developed by NIC, an official said.

However, officials said that usage of the technology remains low and largely for non-critical areas, and that there are some limitations to it. For instance, the railways emphasised the limitations of this technology. A review of AI-based application for monitoring of on-board housing services (OBHS) on trains raised some concerns. An order issued last November clearly stated, "At present, the application is not at a level where financial payments can be linked with it."



## AI-aided Governance CRIME TO CONGESTION TAMED

**Predictive policing in the US:** AI-driven predictive policing in cities including Los Angeles, Chicago, Atlanta, Philadelphia and New York has reduced crime by about 20% by identifying susceptible areas and allowing for strategic personnel deployment.

**Tax collection in the UK:** An AI-driven tax fraud detection system has led to the British revenue agency recovering £500 million, or \$658 million, in unpaid taxes in the first year of use by analysing millions of transactions, vetting banking and employment records.

**Border control in EU:** iBorderCtrl, an AI-driven border security system slashed border wait times by 30% by facial recognition and biometric scanning and using detection tools to assess traveler risk levels, and cross-checking data in real time with security databases.

**Earthquake prevention in Japan:** An AI-powered earthquake prediction system developed by Japan's meteorological agency to analyse seismic data in real time, now detects patterns in underground tremors, and has increased earthquake detection accuracy by 70%.

TEXT BY SUBHAYAN CHAKRABARTY

#### India AI Mission so Far

₹10,372 crore allocated over 2024-29 for AI development  
Includes ₹2,000 crore fund to provide risk capital for deep-tech AI startups

38,000 GPUs deployed at ₹65/hour usage rates  
12 startups selected to build foundational AI models

#### Going Forward

600 AI data labs nationwide to be set up  
500 PhDs in core AI topics to be funded

\$1.7 trillion additional upside to India's economy targeted till 2035  
Workforce of 2.5 million AI professionals by 2030



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