

ATHARVA ROBOTICS CENTER

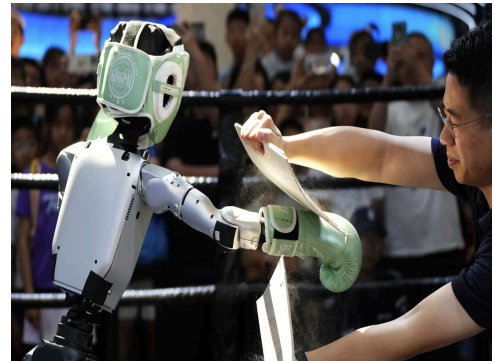
Daily News on Innovation & Technology

14th August, 2025

CNBC's The China Connection newsletter: Wonders and woes of China's robotics industry

By Anniek Bao, August 13, 2025

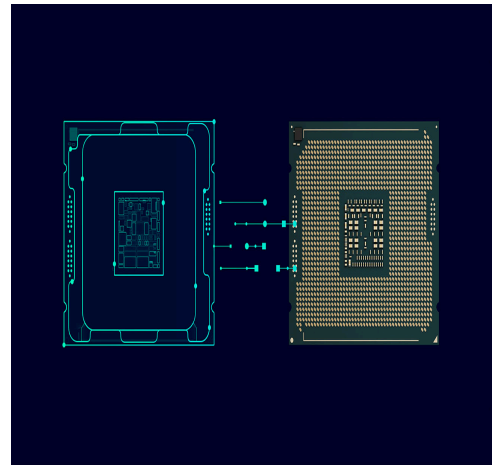
Chinese startups showed off lifelike humanoid robots even as they conceded that technological gaps keeping these machines from the mainstream remain wide. The androids still struggle to process and respond to their surroundings, a limitation that keeps them from most real-life workplace roles.



Siemens empowers Europe's next generation of semiconductor innovators with Open Higher Education Program

By Plano, Texas, USA, August 13, 2025

Siemens Digital Industries Software announced today the Cre8Ventures Open Higher Education Program, an ambitious new initiative developed in collaboration with Arm and the University of Southampton's School of Electronics and Computer Science (ECS), to foster entrepreneurial curiosity and accelerate student-led semiconductor innovation across Europe's leading technical universities.



Ono College launches groundbreaking Cyber Security MBA for global leaders

By Alan Rosenbaum, August 13, 2025

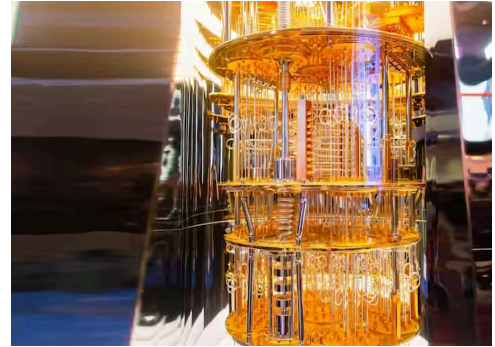
'Cyber security is very simple if you know how to explain it,' says Adv. Rami Tamam, head of Ono International School's MBA program in Business Administration, with Specialization in Cyber Security and Forensics. 'Cyber security is complicated when you are dealing with people who don't have enough professional skills to explain it.'



[IBM, Google aim to launch operational quantum computers by 2030](#)

By Mudit Dube, August 13, 2025

In June, IBM unveiled an ambitious plan for a large-scale quantum machine. The blueprint fills in the gaps from earlier concepts and shows that the company is on track to build one by the end of this decade. "It doesn't feel like a dream anymore," Jay Gambetta, head of IBM's quantum initiative, told Financial Times.



[IN-SPACE will support the space start-ups to launch and monetize India's own satellite constellation, says chairman Goenka](#)

By Sindhu Hariharan, August 13, 2025

United Launch Alliance's Vulcan rocket roared off the pad at Space Launch Complex 41 to begin the USSF-106 mission for the U.S. Space Force. This was the first national security launch using a Vulcan rocket and the 101st national security mission for ULA. Image: Adam Bernstein/Spaceflight Now



[This Tiny Polish Drone Launches from a Tube](#)

By Miriam McNabb, August 13, 2025

DefendEye, a Kraków-based technology company, has developed a tube-launched, fully autonomous drone intended for rapid deployment in a range of operational environments. Weighing under 250 grams, the drone meets sub-250 g regulatory thresholds, which means it can be operated without a pilot's license in most jurisdictions. The system is aimed at professional users in sectors such as search and rescue, public safety, environmental monitoring, and defense.



News Articles

I-Day Security: Drones, Boats, Barricades

Boat Patrols Deployed In Yamuna Near Red Fort, Air Defence Guns To Ensure Safe Celebrations

Times News Network

New Delhi: Air and water security are the priorities this Independence Day. The security forces are focused on drone surveillance and aerial monitoring. Over 11,000 personnel, including army, police and paramilitary, have been deployed at Red Fort, where Prime Minister Narendra Modi will address the nation in the aftermath of Operation Sindoor against terrorism.

Surveillance at water treatment plants has been enhanced after intelligence inputs suggested that there could be attempts to tamper with water supply. Commissioner SBIK Singh has appointed a DCP-rank officer as the in-charge of the anti-drone system. Speed boat patrols have been pressed into service in the Yamuna sections located in the vicinity of Red Fort. "Severance maps have been obtained to ensure foolproof arrangement," an officer said.

Two mobile command and control vehicles have been deployed for the first time. They are equipped with real-time video streaming capabilities to transmit live visuals from two districts. "They are connected to the Integrated Command, Control, Coordination, and Communication (C4I) System at Police HQ. This setup enables senior officers to directly monitor live footage and issue timely instructions to on-ground personnel," another officer explained.

Spotters will be posted on high-rise buildings to monitor suspicious activity. Kite catchers have also been deployed on rooftops to prevent any kites or flying objects from entering restricted areas. To counter other potential aerial threats, anti-drone systems will be deployed to detect and neutralise all suspicious flying objects or unauthorised drones. In addition, air defence guns will provide a robust layer of protection against possible aerial attacks.

SAFETY FIRST

LAND SECURITY

- > Around 11,000 personnel deployed across Delhi, with a focus on central and north Delhi
- > 3,000 traffic cops to manage traffic
- > Paramilitary forces, police officers are conducting thorough combing operations in the forested areas of Yamuna Khadar
- > The mobile command and control vehicle has been deployed, equipped with real-time video streaming capabilities to transmit live visuals
- > Spotters on high-rise
- > Kite catchers posted on rooftops



ARMED PATROLLING TEAMS

armed patrolling teams have been instructed to keep any eye out for sub-conventional aerial platforms, including manned and unmanned flying objects. "Any suspicious activity will be immediately reported to the control room. Paramilitary forces and Delhi Police personnel are jointly conducting thorough combing operations in the forested areas of Yamuna Khadar," said an officer.

Around 300 buildings, mostly commercial, will be sealed. In cases where residential buildings are affected, windows facing the parade route will be sealed, the cops said. A multi-layered barricading system has also been put in place at critical locations. Around three dozen security drills have been conducted to ensure a glitch-free event.

As part of the comprehensive security arrangements, around 60 companies of paramilitary forces, along with 500 commandos, will be stationed across key locations to ensure a robust security presence.

To facilitate the movement of special guests, invitees and the general public attending the Independence Day ceremony, Delhi Metro will begin operations at 4am on all its lines from all terminal stations. From 4am to 6am, trains will run at a frequency of 30 minutes, after which normal service schedules will resume for the remainder of the day, the rail company officials said.

WATER AND AIR

- > Anti-drone systems deployed to thwart any attack or identify any suspicious flying object
- > Air defence guns installed to defend against aerial attacks
- > Boat patrols are monitoring the Yamuna river
- > 150 policemen deployed near the Yamuna area

CCTV SURVEILLANCE

- > Over 1,000 CCTV cameras with facial recognition and video analytics installed around Red Fort and strategic locations
- > AI-enabled facial recognition systems will also be deployed in vehicles stationed at high-traffic access points to Red Fort
- > Temporary control rooms to monitor CCTV footage and alert the ground team if anything suspicious is found

ADDITIONAL SECURITY

- > 60 companies of paramilitary forces along with 346 commandos will be stationed
- > Heavy cranes to be deployed on the routes to remove broken-down vehicles

Source: The Times Of India Newspaper, 14-08-2025
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Link: https://drive.google.com/file/d/1_J-ybTSGVz7rldUS5jUZhxj3cdwpXmsP/view

DGCA warns AI on pilot duty violations

Regulator Says Airline Misused Pak Air Space Closure Exemption, Reduced Crew

Saurabh.Sinha@timesofindia.com

New Delhi: The Directorate General of Civil Aviation (DGCA) has warned Air India against misusing exemptions given for pilot flight duty rules under special circumstances. After Pakistan had closed its airspace to Indian carriers on April 24, 2025, the regulator had granted an exemption from flight duty time limitation (FDTL) norms so that Air India could continue its affected flights between the West and India.

However under the pretext of this exemption allowing it to keep pilots flying longer, Air India reduced the



A livid DGCA pulled up AI or what a senior official described as 'oversmartness'

number of cockpit crew from the unaffected Bengaluru-London flight — which didn't enter Pakistan airspace — from three to two on two flights. A livid regulator pulled up AI for what a senior official described as "oversmartness". This FDTL exemption ended June 12, the day AI 171 crashed.

Nine days after the Ahmedabad crash, the DGCA had issued AI a show-cause for

operating two Bengaluru-London flights on May 16 and 17 by making pilots fly for longer than the 10 hours allowed as per the FDTL given to AI at that point of time.

On Aug 11, the DGCA told AI that its "response to (that) show-cause notice has been duly examined and found to be unsatisfactory in addressing the regulatory lapses and deficiencies noted".

It also noted that the airline's "accountable manager (CEO Campbell Wilson) failed to ensure compliance with the rules". "Accordingly, the accountable manager of AI is hereby warned and advised to exercise utmost

diligence and responsibility in ensuring strict compliance with the applicable civil aviation requirements (DGCA rules)," the DGCA warning letter said.

For its part, an AI spokesperson said: "AI is in receipt of the DGCA letter with regard to rostering issues on two long-haul flights reported in mid-May that arose due to a different interpretation of a permission that was granted to mitigate the border-related airspace closure. This was corrected immediately after the right interpretation was conveyed to us. Air India remains fully compliant with the rules."

Source: The Times Of India Newspaper, 14-08-2025
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Link: https://drive.google.com/file/d/1_J-ybTSGVz7rldUS5jUZhxj3cdwpXmsP/view

'AI affects doctors' skills'

► FROM PAGE 1

The results "provide the first real-world clinical evidence for the phenomenon of deskilling, potentially affecting patient-related outcomes", Ahmad wrote in an accompanying commentary in the journal.

Some doctors urged caution in interpreting the results.

"Any suggestions about deskilling based on these results would be premature," said Mohinish Chhabra, director of gastroenterology and therapeutic endoscopy at Fortis Hospital in Mohali, Punjab, who earlier this year completed India's first study evaluating AI-assisted colonoscopies.

Chhabra said the main fac-

tor influencing adenoma detection rates is the time spent inspecting the colon—whether with or without AI—called the colonoscopy withdrawal time. The longer the inspection, the higher the detection rate.

AI-assisted colonoscopy is one example of the growing use of AI in medicine, from image analysis to diagnostic decision support to robotic surgery. The expansion has also raised concerns among some patients' rights advocates that certain diagnostic procedures, including colonoscopies, may sometimes be driven by commercial incentives.

Romanczyk said the findings were particularly relevant amid AI's rapid uptake in clinical practice. They un-

derscore the need for more research into how the technology affects the skills of health-care professionals in different fields and how doctors and AI can work together more effectively, he said.

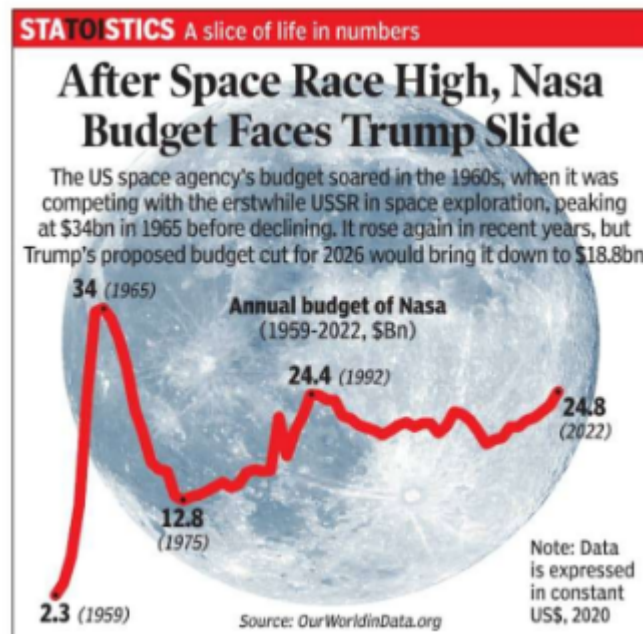
Chhabra agreed that more research is needed, but for a different reason. "We'll need studies that follow many doctors over time to confirm whether deskilling is happening," he said.

The Fortis study, which screened 501 patients over two years, found that AI-assisted colonoscopies detected polyps in 51 per cent of patients compared with 27 per cent using standard colonoscopies, and adenomas in 41 per cent compared with 17 per cent.

Source: The Telegraph Newspaper, 14-08-2025

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Link: <https://drive.google.com/file/d/19dll-iMEv926aoh5mDyIf2FKEp6oc9u5/view>



Source: The Times Of India Newspaper, 14-08-2025

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Link: https://drive.google.com/file/d/1_J-ybTSGVz7rldUS5jUZhxj3cdwpXmsP/view

Why AI intent isn't enough anymore

MOVE BEYOND
ADOPTION; FOCUS
ON OUTCOMES



■ PUNEET GUPTA

THE AI GOLD rush is underway. Indian corporates are racing to integrate AI into their operations, customer experiences and decision-making frameworks. Yet, a critical gap persists between intent and the tangible execution required to generate sustainable advantage. According to NetApp's 2025 AI Space Race Report, nearly 90% of global CEOs and IT executives believe their organisations are mostly ready to sustain AI-driven transformation. Yet only 32% say they're truly ready. Thus, to move from experimentation to transformation, organisations need a smarter approach to scale—one that treats AI as a core business capability rather than a standalone technology initiative.

Many enterprises find themselves mired in what might be termed "pilot purgatory." While successful proofs-of-concept and limited deployments abound, the transition to enterprise-wide, production-grade AI consistently proves challenging. What we need is repeatability, cost control and integration with the business. AI must comply with security, data protection and data governance requirements. Crucially, it must also make economic sense and deliver ROI that justifies the investment of time and resources.

Organisations that succeed in scaling AI take a different approach. They understand that real transformation doesn't come from adopting tools—it comes from redesigning workflows, systems and processes around intelligence. This means aligning AI efforts with business goals, reskilling the workforce to collaborate with intelligent systems and building scalable, secure infrastructure that enables the fluid

movement of data and models across environments.

What organisations need to understand is that scaling AI isn't just about building bigger models or buying more GPUs—it's about having the right infrastructure in place. This means enabling your organisation to move data seamlessly and securely across hybrid and multi-cloud environments, deploy AI workloads without ballooning costs, and integrate AI into existing business processes with minimal disruption.

A smarter, scalable foundation is anchored on three core pillars: **Elasticity:** AI workloads are inherently dynamic—some spike unexpectedly, others operate continuously. The infrastructure must flex accordingly, scaling up or down automatically without requiring major rearchitecting.

Cost efficiency: Intelligent data tiering, lifecycle management and real-time observability tools are critical to ensure every rupee or dollar spent is linked to tangible value.



Governance by design: As AI adoption grows, so do scrutiny and risk. Compliance, auditability, and ethical safeguards must be embedded across the entire AI stack.

Together, these capabilities form the backbone of AI maturity—enabling organisations not just to scale faster, but to scale smarter.

For organisations that want to lead—not just in AI adoption, but in AI impact—it is no longer about implementing AI just for the sake of jumping on the AI bandwagon, but rather about consistently delivering tangible, repeatable, real-world value that addresses real business challenges. The companies that scale AI with intention will do more than win the race.

*The writer is MD & VP,
NetApp India/SAARC*

Source: The Financial Express Newspaper, 14-08-2025
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Smart fence system, drones & ATVs boost security along LoC

ARJUN SHARMA

JAMMU, AUGUST 13

Amid growing infiltration attempts by Pakistani terrorists, the Army has significantly upgraded its surveillance and defense capabilities along the Line of Control (LoC) in the Rajouri and Poonch sectors of the Jammu region, introducing high-tech equipment and enhanced patrol systems.

In recent weeks, several infiltration bids were reported in Poonch, all of which were successfully foiled by alert Army personnel. On July 30, two terrorists attempting to cross into Indian territory were neutralised by soldiers deployed at the LoC in Poonch. The intruders were carrying a cache of arms and ammunition from Pakistan.

To counter such threats more effectively, the Army has deployed a range of modern surveillance tools, includ-

ing the Smart Fence System, which significantly boosts border security through real-time monitoring and automated alerts.

Lt Col Suneel Bartwal, Defence PRO based in Jammu, said, "There are formidable challenges faced by soldiers stationed at the border, who steadfastly defend the nation with determination and selflessness. Amidst the breathtaking yet unforgiving landscapes, the soldiers display an indomitable spirit as they tackle adversities with unwavering commitment and an assuring smile."

He added that despite extreme weather conditions, isolation, and the constant need for vigilance, the soldiers continue to demonstrate remarkable resilience.

To enhance their capability, the Army is now equipped with quadcopters, advanced surveillance tools, bulletproof vehicles, All-Terrain Vehicles

(ATVs), modern weaponry, and night vision devices to detect and neutralise infiltration attempts—especially during night operations when visibility is low.

Quick Reaction Teams (QRTs) have benefited from the induction of military vehicles such as the Armado and ATVs, enabling them to operate efficiently in challenging terrain and dense forests.

Also, drones have become a central part of the Army's surveillance strategy. The official said the increasing integration of Mini Unmanned Aerial Vehicles (UAVs) and Surveillance Drones is transforming operations by enabling persistent monitoring of sensitive areas and supporting potential strike missions.

Night vision devices are also proving critical, especially during dark hours when infiltrators exploit poor visibility.

Source: The Tribune Delhi Newspaper, 14-08-2025

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