

## **ATHARVA ROBOTICS CENTER**

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

7<sup>th</sup> August, 2025

#### **National Cyber Security Centre (NCSC). Recommendations for A Future Quantum Internet**

By Quantum News, August 6, 2025

Analysis conducted by the National Cyber Security Centre (NCSC) details the current state of quantum key distribution (QKD) and quantum random number generation (QRNG) technologies, informed by the National Quantum Strategy and NIST's post-quantum cryptography (PQC) standardisation efforts. QKD offers a mechanism for generating and sharing cryptographic keys with eavesdropping detection, though it lacks inherent authentication capabilities and necessitates integration with other cryptographic services; the NCSC recommends PQC as the primary mitigation against quantum computing threats, deeming QKD unsuitable for government or military applications due to implementation vulnerabilities and the challenges of securing complex integrated systems.



#### **Infosys launches advanced AI, cybersecurity & space tech centre in Hubballi**

By Uma Kannan, August 6, 2025

The centre, which was inaugurated by Minister for Large & Medium Industries MB Patil and IT and Rural Development Minister Priyank Kharge, will serve clients globally across industries including manufacturing, financial services, retail, and healthca...



## [Humanoid Robots Adam And Adam-U Show Lifelike AI Movement”: Experts Call It A Game Changer](#)

By Eirwen Williams August 06, 2025

PNDbotics made headlines at the World Artificial Intelligence Conference 2025 in Shanghai with its revolutionary humanoid robots, Adam and Adam-U, showcasing advanced AI integration and setting a new standard for technological innovation.



## [Cyber security contract for DARPA won by RTX's BBN Technologies](#)

By Dan Taylor, August 6, 2025

CAMBRIDGE, Massachusetts. RTX's BBN Technologies won a contract from the Defense Advanced Research Projects Agency (DARPA) to support the Intelligent Generation of Tools for Security (INGOTS) program, the company announced in a statement.



## [NASA revises plans for commercial space station development](#)

By Jeff Foust August 6, 2025

WASHINGTON — NASA is changing course in its plans to support development of commercial space stations, a move that could also mean an end of a permanent human presence in low Earth orbit by the agency.



## News Articles

# OpenAI in talks for share sale at \$500 bn

**Bloomberg**

feedback@livemint.com

OpenAI is in early talks about a potential secondary sale of stock for current and former employees at a valuation of about \$500 billion, people briefed on the investment discussions said, marking an enormous gain in value for the artificial intelligence leader.

The company is targeting a stock sale in the billions of dollars, the people said, asking to remain anonymous because they weren't authorized to discuss the matter publicly. Exist-



This marks an enormous gain in value for OpenAI.

REUTERS

ing investors including Thrive Capital have approached OpenAI about buying some of the employee shares, the people said.

OpenAI's previous valuation stood at \$300 billion in a \$40 billion financing round led by SoftBank Group Corp. The latest move follows news last week

the startup had secured \$8.3 billion from a syndicate of investors for a second tranche of that \$40 billion financing, which was oversubscribed by about five times, according to one of the people briefed on the discussions.

OpenAI has overseen a spate of recent technology launches, including a new open-source platform, and is preparing the release of its latest GPT-5 model.

The company declined to comment. Thrive representatives didn't respond to requests for comment.

**Source: The Hindustan Times Newspaper, 07-08-2025**

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**LINK:**<https://drive.google.com/file/d/1AVSKpqZMSGs926ds0NZ01pQ-wSlG3v0B/view>



**Source: The Financial Express Newspaper, 07-08-2025**

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**LINK:**<https://www.financialexpress.com/business/start-ups/startups-turn-to-plug-and-play-ai-faster-or-faster-cheaper-deployment/3939031/>

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ATHARVA COLLEGE OF ENGINEERING, MALAD-MARVE ROAD, CHARKOP NAKA, MALAD (WEST), MUMBAI-400095

# Thinking AI

**The real gap is not between having or lacking AI tools, but between using AI superficially and thinking with AI natively. To be AI-native means more than adopting AI. It means redesigning how decisions are made, how knowledge is shared and remembered, how intelligence is embedded into everyday systems, and how human and machine roles evolve collaboratively. It's the difference between layering AI on top of existing processes, and reimagining the workflow itself with agents, data, and cognition integrated from the ground up**



**Source: THE Statesman Newspaper, 07-08-2025**  
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**LINK:** [http://drive.google.com/file/d/1XhN1PjUkVpoR118\\_VggLaWL2cSIVoSb0/view](http://drive.google.com/file/d/1XhN1PjUkVpoR118_VggLaWL2cSIVoSb0/view)

## OpenAI eyes \$500 bn in share deal

**REUTERS**  
August 6

**CHATGPT MAKER OPENAI** is in early-stage discussions about a stock sale that would allow employees to cash out and could value the company at about \$500 billion, a source familiar with the matter said.

The sale would represent an eye-popping bump-up from its current valuation of \$300 billion, with the sale underscoring both OpenAI's rapid gains in users and revenue as well as the intense competition among artificial intelligence firms to secure talented workers.

The transaction, which would come before a potential IPO, would allow current and former employees to sell several billion dollars worth of shares, said the source, who requested anonymity because the talks are private.

Boostered by its flagship product ChatGPT, OpenAI doubled its revenue in the first seven months of the year, reaching an annualized run rate of \$1.2 billion, and is on track to reach \$1.0 billion by year-end, the source added.

Microsoft-backed OpenAI has about 700 million weekly active users for its ChatGPT products, a surge from about 400 million in February.

The share sale talks come on the heels of OpenAI's primary funding round announced earlier this year, which aims to raise \$40 billion, led by Japan's SoftBank Group.

SoftBank has until the end of the year to fund its \$2.5 billion portion of the round, but the remainder has been subscribed at a valuation of \$300 billion, the source said.

Tech giants are competing aggressively for AI talent with lucrative compensation packages. Meta is notably investing billions in Scale AI to poach its 28-year-old CEO, Alexander Wang, so that he can lead its new super intelligence unit.

Unlisted firms such as ByteDance, Databricks and Ramp have also used private share sales to help update a company's valuation and reward long-term employees.

Existing investors in OpenAI, including Thrive Capital, are in discussions to participate in the employee share sale, the source said.

**ChatGPT at \$1/year for US govt workers**

**OPENAI IS PROVIDING** access to its ChatGPT product to US federal agencies at \$1 a year as part of a push to get its AI chatbot more widely adopted. The move comes after the general services administration announced it approved OpenAI, along with Alphabet's Google & Anthropic, as vendors in its new marketplace allowing federal agencies to buy AI software at scale. OpenAI is offering the enterprise version of its product with enhanced security features.

**BLOOMBERG**

**Source: The Financial Express Newspaper, 07-08-2025**  
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**LINK:** <https://www.financialexpress.com/business/start-ups/startups-turn-to-plug-and-play-ai-for-faster-cheaper-deployment/3939031/>

Modules designed for tasks such as sales forecasting and fraud detection

# Startups turn to plug-and-play AI for faster & cheaper deployment

S SHANTHI  
Bengaluru, August 6

**AS ENTERPRISES RAPIDLY** scale up artificial intelligence (AI) adoption across operations, AI and SaaS startups are betting big on a new way to deliver results without the cost and complexity of traditional AI systems — modular AI.

Modular AI basically refers to pre-built, function-specific components that can be used individually or assembled together to automate or optimise business workflows. These modules are designed for tasks like fraud detection, natural language processing, and sales forecasting, which can be plugged into existing

## PURPOSE-BUILT TECH

■ Gupshup, Zoho, Gnani AI, CoRover AI, and Sima AI among startups leading the shift towards modular AI



**GANESH GOPALAN,**  
CO-FOUNDER &  
CEO, GNANI AI



The demand for AI without rip-and-replace IT is skyrocketing

■ Modular AI systems are pre-built, function-specific components that can be plugged into existing systems

■ It allows companies to use only what they need and when they need

systems one at a time, making them easier to deploy, manage and upgrade. This plug-and-play nature means companies can add or swap modules with-

out rebuilding entire systems. Unlike large, single-purpose AI models that often require full-scale implementation, modular AI allows companies to pick

and use only what they need, when they need it.

Modular AI is increasingly preferred by enterprises because it offers speed, flexibility and affordability. It allows businesses to start small, scale gradually, and avoid expensive overhauls of their existing tech infrastructure. With AI models & frameworks evolving at a breakneck pace, this approach helps organisations stay nimble.

"The modular approach is the only way to keep up with how fast the AI space is moving," Girish Raghunath, senior director-engineering at Gupshup, told *FE*.

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Source: The Financial Express Newspaper, 07-08-2025

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## Small language models, big buzz

**INDIA'S EXPERTISE WILL BE MUCH SOUGHT-AFTER**



**UMA GANESH**


**LARGE LANGUAGE MODELS** (LLMs) and the emergence of transformers resulted in the awareness of people globally to adopt tools like ChatGPT in their every-day life. However, large energy consumption, high dependence on cloud, output having biases emanating from large databases and data ownership related concerns led to efforts on finding solutions and identifying alternatives to the LLMs. Proliferation of smartphones, IoT devices and availability of transformer library acted as catalysts for small language models (SLMs). From building domain-specific SLMs and being offline models, the focus is now aimed at building multi-modal agentic SLMs.

India was one of the first countries to start work on the alternatives to LLMs focusing on vernacular languages and cost efficiency. Just like India, other developing nations are also attempting to build SLMs. Indonesia, Philippines and Peru are developing language assistants to support the diverse languages spoken in these countries. Nigeria and Kenya are building SLMs for agri advisory support.

Bhashini is the national platform designed as government-led open architecture that enables AI-based language translation and speech recognition in multiple Indian languages. Efforts are underway to create rural specific SLMs for education, health, agriculture and employment. The objective of India AI Stack is to reduce dependence on foreign-tuned models and get aligned with Indian socio-cultural sensitivities as well as make them device-light suitable for low-connectivity territories. Sarvam AI

focuses on speech-to-text in different languages, while Grant Vairaves SLMs to give ruralness and a mode for grievance redressal in Hindi & Bhojpuri.

SLMs will foster innovation in small towns and make AI inclusive. By having SLMs hosted on devices, it is possible for the citizens to access services such as weather bulletins, crop advisory, financial information and government schemes. A big concern is about personal data being moved outside of India. SLMs allow government, banks, hospitals and other legal entities to retain the data locally and ensure its privacy.



Quality of education delivery and access could be energised significantly with the help of SLMs. Students could be provided with personalised learning pathways and counselling in their respective languages. Skill gap as required for each location based on the availability of jobs and requirement of talent could be delivered just in time, in local languages and make it affordable.

Success of SLMs also depends upon how the data is labeled and catalogued for the purpose of domain modelling. Careful planning and long term thinking is required for each domain with multiple stakeholders involved in this initiative to create a strong foundation which is a pre-requisite for the successful deployment of SLMs. With India's advantage on low cost and access to the large, scalable AI talent pool, its expertise in building SLMs for different domains, devices and languages would be much sought after by other countries once we make headway with the deployment across various sectors.

The author is Uma Ganesh, GFT Foundation

Source: The Financial Express Newspaper, 07-08-2025  
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