

## **ATHARVA ROBOTICS CENTER**

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

10<sup>th</sup> July, 2025

#### **Industry 5.0: A mega driver of digital transformation of manufacturing sector**

By Dr. Antarpreet Singh, Director (Academics), WILL Education, July 09, 2025

I often say in my classes that the history of innovation has been thoroughly boring. There is nothing worth writing, in the context of scientific innovations in an era before the year 1775.



#### **Monk9 Tech: A Ground-Up Vision for India's Semiconductor Future**

By Nucleus\_AI, July 09, 2025

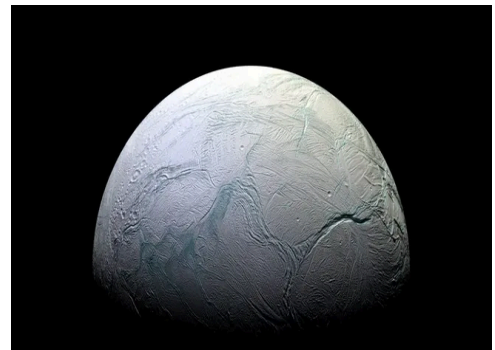
In 2022, amid global supply chain disruptions and rising geopolitical emphasis on tech sovereignty, Monk9 Tech Private Limited was born in Rajkot, Gujarat, with a bold ambition: to make chip manufacturing accessible to Indian innovators.



#### **Scientists discover ice in space isn't like water on Earth after all**

By Keith Cooper, July 08, 2025

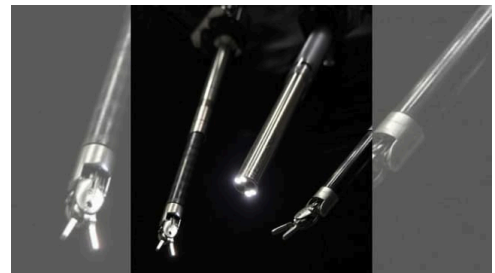
Water ice is everywhere in space, from frozen moons to frosty dust grains in interstellar clouds. However, researchers at University College London (UCL) and the University of Cambridge have recently discovered that ice in space isn't like what we thought it was.



#### **Surgical robot hits milestone with autonomous, adaptive gallbladder removal**

By Aamir Kholam, July 09, 2025

A surgical robot has successfully performed a key phase of a gallbladder removal with no human intervention, marking a critical leap toward fully autonomous operations.



## [Space BD and Gilmour Space to partner on launch and satellite services](#)

By Jeff Foust, July 09, 2025

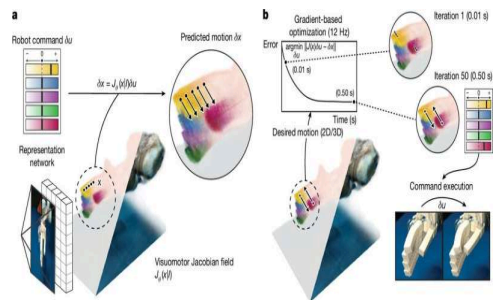
TOKYO — Japanese launch services operator Space BD has signed an agreement with Australian launch vehicle developer Gilmour Space ahead of that company's first orbital launch attempt.



## [Deep-learning system teaches soft, bio-inspired robots to move using only a single camera](#)

By Charles Blue, July 09, 2025

Conventional robots, like those used in industry and hazardous environments, are easy to model and control, but are too rigid to operate in confined spaces and uneven terrain.



## [Robotic surgery hits 'milestone' with autonomous gallbladder removal](#)

By Don Jacobson, July 09, 2025

Efforts to train robots to perform certain kinds of surgical procedures without human help have reached a "critical milestone" with successful gallbladder removal procedures in lifelike settings, researchers reported Wednesday.



## News Articles

### Starlink gets IN-SPACE nod for India launch

Elon Musk's satcom venture Starlink on Wednesday cleared the final hurdle for launch of services in India, as the company received satellite authorisation approval from space regulator and promoter Indian National Space Promotion and Authorization Centre (IN-SPACE), reports **Pankaj Doval**.

"IN-SPACE authorisation to SSCPL has a validity period of five years from the date of authorisation or end of operational life of Gen1 constellation — whichever is earlier," the satellite authorisation body said. Earlier, the company had received a licence to offer satellite services in India from department of telecom on June 5, and IN-SPACE clearance now paves the way for it to start work on setting up ground infrastructure to begin services, possibly over the next few months.

Starlink Gen1 Constellation is a global constellation with 4,408 satellites orbiting earth capable of providing 600 Gbps throughout India. **P 19**

Source: The Times of India Newspaper, 10-07-2025

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Link: [https://drive.google.com/file/d/119GIJzCxmqmjU0GcuHSddk3E\\_2RoOCC/view](https://drive.google.com/file/d/119GIJzCxmqmjU0GcuHSddk3E_2RoOCC/view)

● **INTERVIEW: RAJESH GANESAN, CEO, MANAGEENGINE**

# 'Don't treat AI projects as isolated experiments'

*MANAGEENGINE, the enterprise IT management arm of Zoho, is expanding its operations—focusing on growing their workforce, opening new data centres, investing in AI research and enhancing their on-ground presence across cities. The company is also seeing increasing interest from enterprises for AI agents. With India poised to become its second-largest market by next year, Rajesh Ganesan, president of ManageEngine, speaks to Sudhir Chowdhary on its expansion plans and how GenAI is beginning to impact IT management. Excerpt:*

#### How do you plan to accelerate growth in the Indian market?

Our strategy for India is rooted in a long-term commitment. That means making strategic investments in local talent, customer support and partner ecosystems. We've expanded our on-ground presence across cities and are localising our offerings to meet industry requirements.

From a product standpoint, our focus is to deliver enterprise-grade IT management solutions that are

accessible to organisations of all sizes. This includes simplifying onboarding, offering flexible deployment models (cloud, on-premises, and hybrid), and integrating AI-powered capabilities that solve real operational challenges—whether in IT service management, endpoint security, or observability.

Looking ahead, we see India not just as a market but as a strategic innovation hub. As AI adoption grows, we're also working on foundational models specifically suited for Indian enterprises—models that understand regional context, languages, and business logic.

#### How are firms adopting AI into their business operations?

We've seen that enterprise IT leaders today are approaching AI with a more

balanced outlook—they hold a bit of caution rather than just excitement for AI. Their focus is not on adopting every new tool but

finding solutions that genuinely drive business outcomes. There's no rush and rightly so. Whether in India, the US, or other regions, our clients are looking to solve real-world problems.



Today, AI is moving towards stimulating innovation in areas like real-time analytics, personalised customer experiences, and advanced anomaly detection. However, to adopt AI at scale, businesses must surmount data quality issues, workforce skill gaps and organisational silos.

We are also seeing increasing interest in AI agents. Most importantly, the AI conversation is evolving. It's no longer just about what the technology can do but also how it performs—responsibly, ethically, and with governance in place.

#### But why do firms struggle to scale AI projects beyond initial pilots?

One of the most common challenges we see is that enterprises treat AI projects as

isolated experiments rather than integrated extensions of their core operations. Pilots often succeed in controlled settings but fail to scale because they're not rooted in the day-to-day business context or tied to clear operational goals.

To scale AI meaningfully, I would recommend three key practices. First, ground AI initiatives in real business needs. Start with well-defined problems and look for ways AI can improve outcomes or efficiency.

Second, build on existing systems and data. Many enterprises already have mature IT infrastructures. The most successful AI implementations we've seen are those that layer intelligence onto these systems rather than replacing them.

Third, AI isn't a one-time deployment. You need clear policies around data quality, security, explainability and monitoring. Especially in IT management, where AI-driven actions could impact critical infrastructure, having the right checks and balances is essential.

**AS AI ADOPTION GROWS, WE'RE WORKING ON FOUNDATIONAL MODELS SPECIFICALLY SUITED FOR INDIAN ENTERPRISES**

Source: The Financial Express Newspaper, 10-07-2025  
Page No 11

Link: <https://epaper.financialexpress.com/4031361/Mumbai/July-10-2025#page/13/2>

# The missing middle in India's net-zero ambition

## PEOPLE WITH SKILLS IN BOTH AI & SUSTAINABILITY



MANAV SUBODH

A FEW WEEKS ago, millions of us happily "ghibliified" our selfies using AI, turning them into dreamy animations straight out of a Miyazaki film. But the magic faded quickly when reports revealed the environmental cost behind each

generated image. Even our casual "thank you" to an AI chatbot burns energy. Suddenly, AI didn't seem so invisible or innocent.

Every digital interaction leaves a carbon footprint. In a country racing toward net-zero, this raises a question few are asking: What does it mean to be a responsible digital citizen? And I'm not just talking about a future worker in the burgeoning green economy, but a citizen who understands that even digital joy rides come with ecological receipts.

India is producing cutting-edge coders. It is also producing world-class climate scientists. But between the engineers powering AI and the experts fighting climate change lies a critical void: the Green-AI generalist. This is the missing middle; the kind of interdisciplinary talent who can decode machine learning mod-



els and understand how to reduce their energy draw. The data scientist who considers carbon budgets. The sustainability expert who knows what an algorithm actually does. The product manager who can balance tech ambition with ecological wisdom. Or maybe it's just you and

me, everyday citizens using AI, but doing so responsibly.

Globally, this hybrid is already emerging. Columbia University's Climate School offers AI-integrated sustainability education. NTU Singapore's Sustainable AI program trains engineers to design low-emission tech systems. The World Economic Forum predicts demand for such roles will outpace core software engineering in green sectors by 2030.

But still, in India, progress remains uneven. According to the Skills Council for Green Jobs, fewer than 2% of India's green skilling programmes currently include any AI training (and most AI curriculums don't touch sustainability). This is a missed opportunity. Because without these bridge-builders, we risk a future where we're deploying high-

powered tech to fight climate change, while ironically deepening the crisis with every click and every development of an AI tool.

It's time we stop treating AI and climate action as two separate worlds because they're not. Every line of code has a carbon consequence. Every green ambition needs digital muscle. And without people who can fluently navigate both, we're setting ourselves up for elegant solutions that fail in execution and backfire. India needs green-AI generalists who can ask smarter questions, build cleaner systems, and anticipate the unintended consequences of our tech-driven climate dreams.

*The writer is founder, 1M1B (one million for one billion), a UN-accredited skilling NGO*

Source: The Financial Express Newspaper, 10-07-2025  
Page No 11

Link: <https://epaper.financialexpress.com/4031361/Mumbai/July-10-2025#page/13/2>

# Indian space regulator approves Elon Musk's Starlink services for 5 years

## AGENCIES

NEW DELHI, 9 JULY

The Indian National Space Promotion and Authorisation Centre (IN-SPACe) on Wednesday announced that it has approved Elon Musk's Starlink for a period of five years in the country.

With this, the final regulatory hurdle for the cheaper internet service to start rolling out its commercial satellite broadband operations in India has been cleared.

In a statement, IN-SPACe said it "has granted authorisation to Starlink Satellite Communications Private Limited, New Delhi (SSCPL) for enabling provisioning of Low Earth Orbit (LEO) satellite constellation, namely Starlink Gen1."

"The Starlink Gen1 Constellation is a global constellation with 4408 satellites orbiting Earth at altitudes varying between 540-570Km capable of providing about 600 Gbps throughput over India," it added.

The authorisation will enable SSCPL to provide satellite communication services in India. "IN-SPACe authorisation to SSCPL has a validity



period of five (5) years from the date of authorisation or end of operational life of Gen1 constellation – whichever is earlier," the regulator said.

Starlink now needs to acquire spectrum from the government and establish ground infrastructure for its services.

The Department of Telecommunications (DoT) is set to grant trial spectrum to the US-based space firm to complete security compliance demonstrations.

Starlink has signed its first commercial agreements with VSAT providers in India. VSAT (Very Small Aperture Terminal) service providers offer satellite-based internet and communication solutions, particularly for locations with limited or no terrestrial

connectivity.

The affordable satellite-based internet service Starlink is now set to roll out in the country in a few months.

However, IN-SPACe noted that the roll-out of the cheap internet service "is subject to the stipulated regulatory provisions and requisite clearance/approval/license from the relevant government department(s)."

Union Communications Minister Jyotiraditya Scindia said last week that all due diligence has been completed from their end for the entry of SpaceX's Starlink service in India, and once they receive the necessary regulatory and licensing approvals from the space regulator, they can roll out the service in the country whenever they wish to.

**Source: The Statesman Newspaper, 10-07-2025**

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Link: <https://drive.google.com/file/d/18NB9yxOjIMT5ccTFHQdBmphEe5qwLXOf/view>



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