ATHARVA ROBOTICS CENTER

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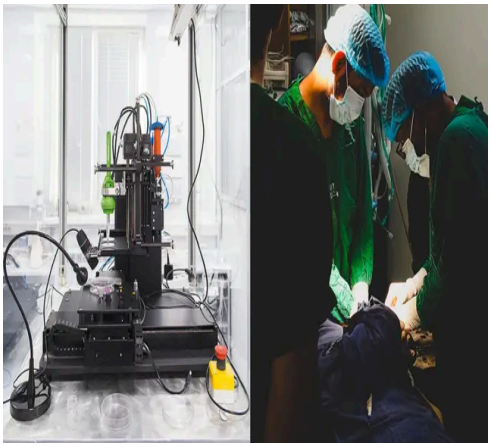
World's smallest 3D bioprinting robot delivers healing gels to damaged vocal cords

By Aamir Khollam, October 29, 2025

A team of biomechanical engineers and surgeons has created a 3D-printing soft robot that could transform vocal cord surgery.Designed to deliver hydrogels directly to damaged tissue, the device measures just 2.7 millimeters across, making it the smallest bioprinter ever reported.The study details how this flexible, surgeon-controlled tool could help patients recover their voices after surgery by reconstructing delicate vocal tissues more accurately than ever before.



Aerospace and semiconductor sector to define next market decade: Pankaj Tibrewal

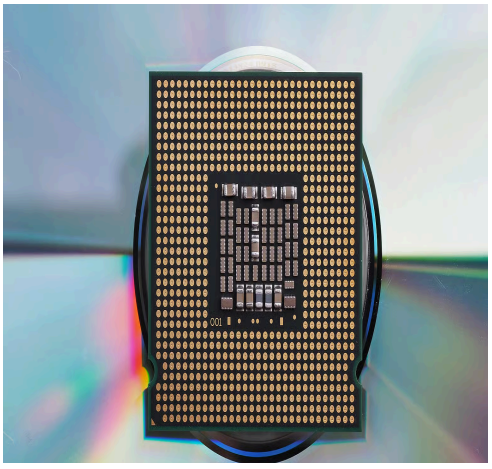
By Anupam Nagar,October 29, 2025

In an exclusive conversation with ET Now, Pankaj Tibrewal from IKIGAI Asset Managers shared his insights on the evolving sectoral leadership in Indian markets, emphasizing that financials are firmly in the driver's seat, while sectors like metals, consumer discretionary, and auto ancillaries could offer meaningful opportunities in the coming years.

Semiconductor Manufacturing: Hyderabad IT Firm To Develop AI Chips With US Partner

By Shubhayan Bhattacharya ,October 29, 2025

Blue Cloud Softech Solutions Ltd., a Hyderabad-based small-cap IT company, will design and develop Edge AI chips in partnership with an American firm. The company signed a $15 million (Rs 132 crore) Memorandum of Understanding with Byte Eclipse to design and develop Edge AI Chips tailored for the Oil & Gas industry, according to a statement issued on Wednesday.



Neural Dispatch: Agentic AI's lack of intelligence, a DeepSeek moment, and Nvidia's AI supercomputer

By Vishal Mathur, October 29, 2025

Cognitive warmup. Is this another DeepSeek moment for AI to contend with? Chinese tech giants Alibaba says their Alibaba Cloud platform has successfully tested a new compute pooling system called Aegaeon, which has reduced the number of Nvidia H20 GPUs required to serve dozens of models of up to 72-billion parameters, from 1,192 to 213 GPUs.

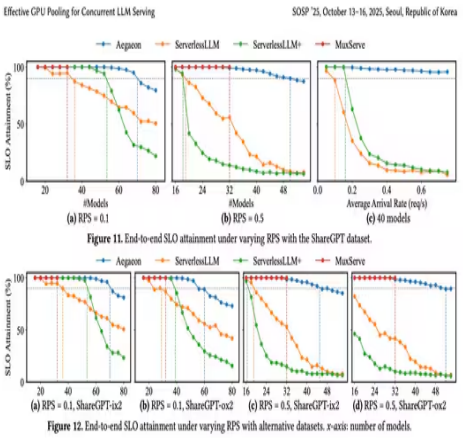


Figure 11. End-to-end SLO attainment under varying RPS with the ShareGPT dataset.

Figure 12. End-to-end SLO attainment under varying RPS with alternative datasets. x-axis: number of models.

Robots you can wear like clothes: Automatic weaving of 'fabric muscle' brings commercialization closer

By Sadie Harley, October 29, 2025

The commercialization of clothing-type wearable robots has taken a significant step forward with the development of equipment that can continuously and automatically weave ultra-thin shape memory alloy coil yarn—thinner than a human hair—into lightweight and flexible "fabric muscle" suitable for large-scale production.

Explained | ISRO to launch CMS-03 on Nov 2. All you need to know about India's heaviest communication satellite

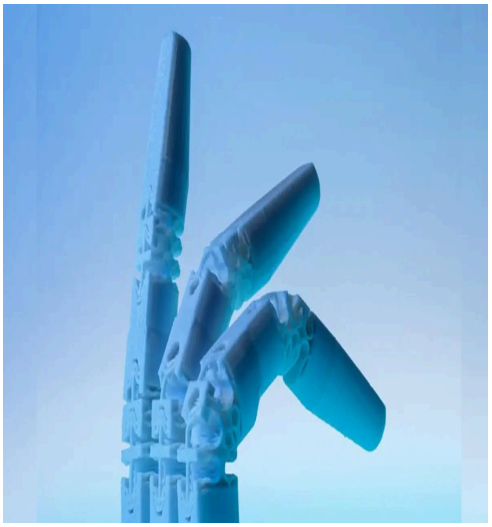
By DH Web Desk, October 29, 2025

CMS-03 is a multi-band military communication satellite that will provide services over a wide oceanic region.India's heaviest communication satellite, CMS-03, is scheduled to be launched on November 2 from the Satish Dhawan Space Centre, Sriharikota in Andhra Pradesh, by the Indian Space Research Organisation (ISRO).

Programmable materials create motor-less finger that offers stable positions for robotics

By Kaif Shaikh, October 29, 2025

A new finger joint made from a single piece of programmable metamaterial could simplify the design of hand prostheses and robotic grippers, offering users greater comfort, aesthetics, and functionality at lower cost. The system, developed within the Fraunhofer Cluster of Excellence Programmable Materials CPM, can hold four stable positions without motors or multiple interconnected parts, a shift away from conventional prosthetic designs that rely on screws, hinges, and extensive assembly.



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