

ATHARVA ROBOTICS CENTER

Daily News on Innovation & Technology

31th October, 2025

'Drone tech can help contain crop loss, promote biodiversity and soil health'

By The Hindu Bureau, October 31, 2025

The University of Agricultural Sciences in Dharwad organised a national conference on Comprehensive Crop Management through Drone Technology in Agriculture (CCMDTA) in Dharwad on October 30. Resource persons presented various papers on the emerging technology and its potential benefits. V. P. Chaudhary, Principal Scientist, ICAR-Central Institute of Agricultural Engineering, Bhopal, spoke on the various aspects of drone application in agriculture.



Achieving Accuracy and Scalability Through Robotics Software and CNC Machining

By ANI, October 30, 2025

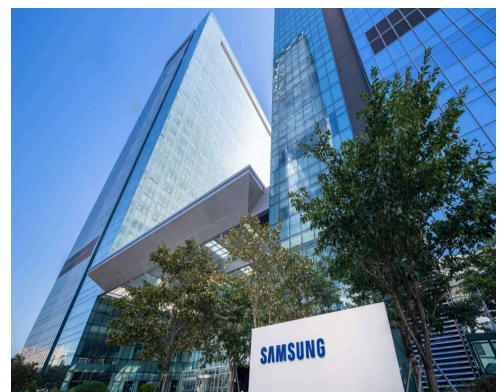
New Delhi [India], October 30: Modern automation mainly relies on a robotics computer program that enhances accuracy and efficiency in any industry. Software platforms are made to be reliable with advanced assembly lines and adaptive inspection systems that reduce deviation by motion planning, correcting errors and using feedback loops.



Samsung has a great Q3 thanks to semiconductor and memory divisions

By Ivan, October 30, 2025

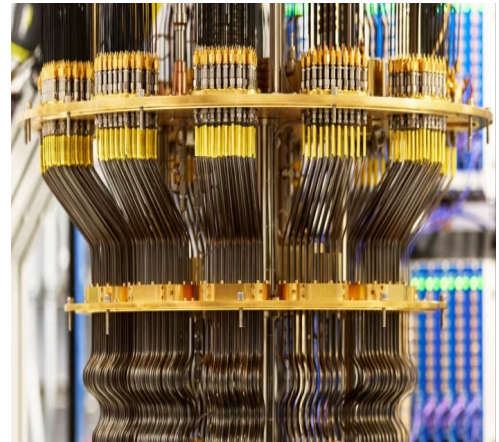
Samsung posted its Q3 2025 earnings today. The company's consolidated revenue was KRW 86.1 trillion (€51.66b) with an operating profit of KRW 12.2 trillion (€7.32b). Revenue growth was 15.4% up on the second quarter. More than half of the total operating profit, KRW 7.0 trillion (€4.2b) came from Samsung's Device Solutions division and specifically its semiconductor, chip, and memory business.



[Quantum technology is coming to the real world](#)

By James Manyika, October 30, 2025

Quantum computing able to harness the subatomic world may seem like a distant prospect to some people. This misapprehension persists despite recent research breakthroughs, many built on the foundational research of 2025 Nobel laureates John Clarke, Michel Devoret, and John Martinis. But quantum computers are already being used for scientific research and real-world applications appear likely to emerge in the near future, even before we get to the goal of large-scale, error-corrected computing systems.



[World's first underwater habitat in decades to unlock secrets of 95% of oceans](#)

By Georgina Jedikovska, October 30, 2025

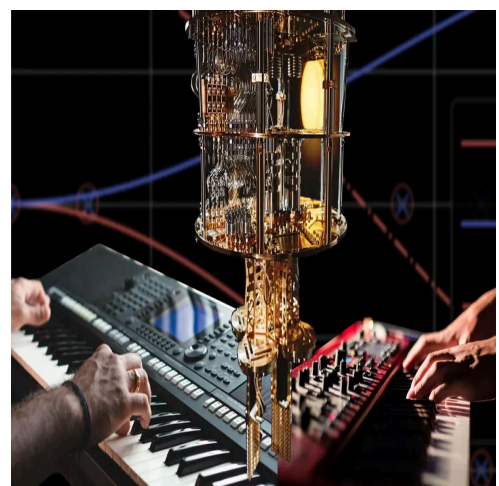
An ocean technology company has just unveiled a pioneering underwater habitat prototype at a hangar in Miami, designed to allow scientists to live and carry out research beneath the sea's surface for days at a time. Developed by DEEP, a UK-based subsea engineering firm, the new Vanguard pilot human habitat is part of an ambitious effort to make long-term underwater living possible.



[World's first quantum music web app turns game theory into a live jam session](#)

By Aman Tripathi, October 30, 2025

Kobe University researchers have unveiled an interactive web application that transforms the abstract concepts of quantum game theory into a tangible, musical experience, drawing parallels with the "emergent dialogue" in jazz and improvisational music. This development is the world's first browser-based interactive music system built on quantum game theory, and it offers users real-time visual and auditory feedback on how their strategic decisions intertwine.



[Humanoid robots could lift 4,000 times their own weight thanks to breakthrough 'artificial muscle'](#)

By Bobby Hellard , October 29, 2025

Researchers in South Korea have built an artificial muscle that can lift approximately 4,000 times its own weight. They say it can be used in future humanoid robots. A key breakthrough with the muscle's design is its ability to be flexible or taut when needed, which is a first for this field of research. The scientists outlined their findings in a study published Sept. 7 in the journal *Advanced Functional Materials*.



News Articles

Building a digital network for better service delivery

AMAZON WEB SERVICES HELPS STARTUPS DRIVE PUBLIC SECTOR TRANSFORMATION

SUDHIR CHOWDHARY

AMAZON WEB SERVICES (AWS) is seeing accelerated adoption of its cloud platforms by the public sector, thanks to the government's emphasis on creating digital public infrastructure (DPI) to drive inclusive growth. A provider of cloud computing services on a metered, pay-as-you-go basis, it has implemented various projects across healthcare, public procurement and transportation sectors in recent times. "Some of these innovations are ripe for global adoption, particularly in developing nations, given their success in enabling financial inclusion and efficient public service delivery," Jeff Kratz, vice-president, worldwide public sector nonprofit and industry sales, AWS, told FE.

Amazon in May 2023 announced plans to invest \$12.7 billion by 2030 into its local cloud infrastructure. "Governments often operate with diverse legacy environments, and we enable them to migrate critical workloads to the cloud," Kratz said.

In India, AWS works closely with startups driving public sector transformation, supporting them through programmes like AWS Activate for fast innovation and scaling. "We also help commercialise solutions via AWS Marketplace. For



example, PeriWinkle, which built an AI-based cervical cancer screening solution is now saving the lives of over 200,000 rural women, and Qure.ai, whose AI-based radiology solutions detect diseases with 98-99% accuracy," Kratz added.

Citing some examples of how India is leveraging AI and GenAI to drive impact in the public sector, Kratz explained: First is the National Health Authority (NHA), which runs the Pradhan Mantri Jan Arogya Yojana (PM-JAY). Leveraging AWS services, NHA processes over

1.2 million monthly claims with 2.5 million associated documents. Second is the Government e-Marketplace that runs on AWS. GeM has 2.3 million sellers and 370,000 buyers, helping save over \$13.5 billion of taxpayer money while promoting transparency. The third is NHA's FastTag toll app that automates toll management, while enabling data-driven insights to benefit citizens. We've introduced over 300 security tools and leverage GenAI to enhance data security," Kratz said.

JEFF KRATZ, VP, WORLDWIDE PUBLIC SECTOR NON-PROFIT & INDUSTRY SALES, AWS

Governments often operate with diverse legacy environments; we enable them to migrate critical workloads to the cloud



According to him, governments face several challenges when adopting cloud technologies. The first is simply how to get started, as much of their workloads still remain on-premises. AWS announced a \$50 million investment for proof of concepts to help governments offset their operational costs.

Another challenge is scaling at a population level. "Applications like FastTag need to reach every citizen with a mobile device. AWS enables such scale while maintaining security," he said.

Source: Financial Express Newspaper, 30-09-2025

Page No 09

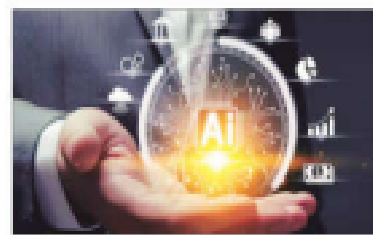
Link: <https://drive.google.com/file/d/1G1gu8aqsebk6Cp65oBEzTZZEPnm-H9-Q/view>

● **DATASPEAK**

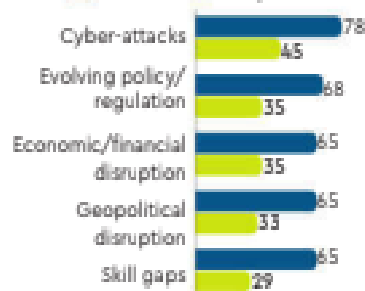
The ground reality

Businesses are investing more in AI than ever before, yet many still struggle to translate that investment into large-scale success. That's according to the 2025 Kyndryl Readiness Report, which finds a readiness gap among firms. Glimpses:

Business leaders say their company's AI spending jumped 33% on average since last year



Top 5 concerns vs. readiness in India (in %)



Mapping risks and readiness

In India, business leaders appear unprepared for future risks



Source: Financial Express Newspaper, 30-09-2025
 Page No 09

Link: <https://drive.google.com/file/d/1G1gu8aqsebk6Cp65oBEzTZZEPnm-H9-Q/view>



ATHARVA

ROBOTICS CENTER