ATHARVA ROBOTICS CENTER

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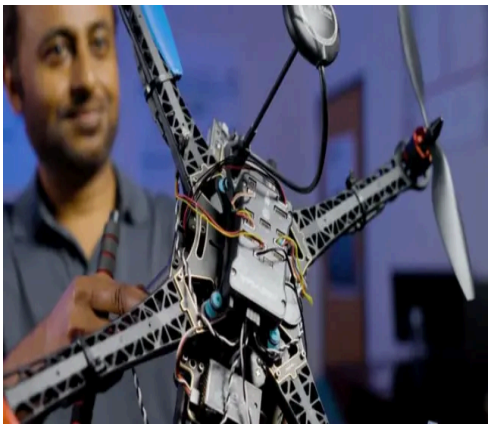
Indian firm Nav Wireless clai/9ms to deploy America's first LiFi internet in New York

By PTI ,October 05, 2025

Gujarat-based Nav Wireless Technologies claimed to have deployed America's first-ever commercial LiFi internet system in New York City.The technology has been installed at the Silicon Harlem office in New York in collaboration with JESCO Venture Labs, Nav Wireless said in a statement."Launching LiFi in New York is not just a milestone for Nav Wireless, it is a proud moment for India. This is a clear signal that made-in-India innovations can redefine the world's digital future by offering faster, safer, and interference-free connectivity," Nav Wireless Technologies CTO and Co-Founder Hardik Soni said in the statement.

SHIELD' tech gives drones real-time defense against mid-flight cyberattacks



By Aamir Khollam ,October 07, 2025

A drone taken over by hackers can turn from an efficient flying tool into a dangerous machine. Once under rogue control, it may fly unpredictably, slow down, reverse direction, or crash.When that happens, it loses its mission completely, whether it was delivering a package, inspecting a bridge, or surveying farmland. With drone use expanding across industries, the risk of such attacks is becoming harder to ignore.

Inside South India's Only Dual-Certified GI Surgery Hub with Robotic Capabilities

By Genesis,October 07, 2025

This month, one such story unfolded at Kauvery Hospital, Electronic City, Bangalore, a leading surgical gastroenterology hospital in Bangalore, which became the first corporate in South India to be named as Centre of Excellence in Hernia and Abdominal wall reconstruction

Video: Tesla's Optimus humanoid robot 'fights' Jared Leto at Tron: Ares premiere

By Georgina Jedikovska, October 07, 2025

Tesla's general-purpose humanoid robot Optimus strutted onto the red carpet at the Tron: Ares world premiere in Los Angeles this week. There it posed in a Kung Fu-ready stance opposite actor Jared Leto.The video, shared on the social media platform X (formerly Twitter), captures the robot showing off its Kung Fu moves on the red carpet in a playful face-off with the popular actor and musician.

OpenAI's Pac-Man Appetite Fuels Broad Semiconductor Boom

By StartupHub, October 07, 2025

OpenAI is "eating computing power like Pac-Man," a vivid analogy offered by Vivek Arya, Senior Semiconductor Analyst at Bank of America Securities, during a recent interview on CNBC's 'Squawk Box.' Arya's commentary underscored the insatiable demand for computational resources driven by generative artificial intelligence, a demand so profound that it is reshaping the semiconductor industry and inspiring a revised, bullish outlook for key players like Advanced Micro Devices (AMD).

Advantest America Partners with NVIDIA to Bring Real-Time AI to Semiconductor Testing

By Mukundan Sivaraj , October 07, 2025

In a major step toward intelligent manufacturing, Advantest America has partnered with NVIDIA to bring real-time AI into the semiconductor testing process, transforming a traditionally linear workflow into an adaptive, self-optimizing system.The collaboration integrates NVIDIA AI inference with Advantest Cloud Solutions Real-Time Data Infrastructure (ACS RTDI), a high-speed data platform that ingests, analyzes, and acts on chip test results in real time. NVIDIA has selected ACS RTDI to power its own high-volume production for Blackwell and next-generation devices, underscoring its robustness and scalability.

Thales launches Europe's first certified smartcard ready for the Quantum Age

By Thales, October 07, 2025

As quantum computing evolves, many of today's cryptographic methods will no longer be secure, since quantum computers will be able to solve complex mathematical problems much faster than classical computers. A recent Gartner® report* says "by 2029, advances in quantum computing will make conventional asymmetric cryptography unsafe to use", Thales has spent years investing in post-quantum cryptography to ensure critical systems stay safe in the future.

News Articles

Artificial Intelligence: The New Language For Global Talent

AI offers opportunity to amplify human potential by freeing people from repetitive tasks and opening opportunities for higher-value contributions. It will bring speed and scale, while humans bring judgement, empathy, and creativity

By Tanuj Kapilashrami

Artificial Intelligence (AI) is no longer a topic reserved only for technologists or data scientists.

It has evolved into a topic that influences how we live, learn, and interact everyday. AI is also shaping the future of work at a speed none of us has experienced before — it is changing how industries operate, organisations compete, and individuals grow. About two decades ago, digital literacy was the disruptor, and today, AI is rapidly evolving into an important cornerstone for any skills-based organisation.

Why AI literacy matters

Artificial Intelligence is poised to bring transformative changes across industries. The World Economic Forum estimates that 39% of the workforce's core skills will be disrupted by 2030, raising a very real risk of employability gaps, especially for individuals unable to adapt. However, the opportunity is equally significant with AI offering the opportunity to amplify human potential by freeing people from repetitive tasks and opening opportunities for higher-value contributions. AI will bring speed and scale, while humans bring judgement, empathy, and creativity.

So, what does it mean to be AI literate? More than the technical know-how, AI literacy is a combination of awareness, skills and having the ability to seamlessly integrate AI into human work. Employees and organisations should focus on:

1 **Foundational awareness:** Understand AI, what it can and cannot do, its limitations and ethical boundaries. It is more about understanding the technology and its potential.

Ram

2 **Practical fluency:** Learn to be comfortable with using AI in daily tasks, such as using AI as a draft assistant or for data analysis, but be prepared to evaluate the outputs yourself.

3 **Responsible usage:** Apply principles of bias detection, privacy, and transparency, and use safeguards to mitigate them.

4 **Human advantage:** Strengthen skills that AI cannot replicate, such as analytical thinking, creativity, empathy, and leadership.

Practical steps for employees

For professionals of all levels navigating the future of work, AI literacy can be built through practical steps with consistent effort. Some of these steps include:

- **Micro-learning:** Dedicate 15 minutes a week to exploring AI tutorials, simulations, and case studies.
- **Experiment with the tool:** Test the Artificial Intelligence tools in low-risk tasks such as drafting an email, summarising a document and reflecting on places where AI adds value.
- **Build your skills:** Maintain a record of your technical and human skills. Platforms have started to match talent to skill-based opportunities, not limited to job titles.
- **Prioritise ethical practices:** Remember, AI literacy also means knowing what not to do, i.e., be conscious about data privacy and fairness.

Imperatives for organisations

The future workplace is already taking shape, and organisations need to integrate AI literacy and make it part of their DNA. To make the workplace future-proof, employers need to democratise learning and create roles for human-AI collaboration while creating responsible frameworks for accountability. To conclude, AI proficiency is a continuous exercise as the technology landscape is constantly evolving, and the future belongs to those who can bridge the gap between potential and possibility.

(The writer is chief strategy & talent officer, Standard Chartered)

Source:Times of India Newspaper, 08-10-2025
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Link:https://drive.google.com/file/d/1CkLOly5SG3ISQaxkxJ2zYKC6gZ29i1u_/view

'AI, greater market access key to India's growth'

Deregulation, combined with the increased adoption of AI and a trade policy focused on greater market access, could be transformative for India in achieving a higher economic growth trajectory for an extended period, **Franziska Ohnsorge**, *chief economist for the South Asia Region, World Bank tells* **Prasanta Sahu** *in an interview. Access to 50% of the world's GDP through trade agreements would also boost FDI inflows to India. Excerpts:*

Do you share the optimism of the Indian government that the recent reforms will boost consumption?
The government has had a series of reform efforts. The laws to reform the labour market were also passed several years ago, and there is now a renewed urgency in actually getting it implemented on the ground. The government's really trying to unlock growth, and that is one of the reasons why India remains the fastest-growing in large emerging markets. We expect a slowdown from 6.5% growth in 2025-26 to 6.3% in the next fiscal year. It might be a slowdown for India's terms, but by international standards, this is still robust growth.

Do you think India's growth capacity, which is its growth potential, has weakened, and why?
I think if anything, the country is well placed to benefit in the current environment more than anyone else for two reasons. The government has really laid the foundations to benefit from AI. Indian government's AI readiness index is well above the emerging market average and is almost close to the advanced economy average. The country is ready for AI in another sense too. There is a smaller share of jobs in India exposed to AI than in other emerging markets and developing countries. So, India is well placed to benefit from this technology shock, this global productivity shock.

> INVESTMENT GROWTH HAS SLOWED FROM PRE-PANDEMIC RATES IN INDIA, BUT IT IS STILL HIGHER

What are the other things that India should do on a priority basis to take economic growth to a higher trajectory?
I genuinely think the combination of AI and trade policy could be transformative. They will be even better if they come with deregulation. Trade policy is an effort that could help people move around from jobs (in industries) that are shrinking to jobs that are growing. Things are changing asymmetrically around the economy. So, any policy that can reduce the cost of switching jobs will supercharge the gains from these two big trends – AI and trade. That is exactly what the Deregulation Mission Commission can do.

Do you think that Trump's tariff policies are going to impact the Indian economy if it is not sorted out by November?
The tariffs that have now materialised for India are double the level what we had anticipated in April. So, this is one of the reasons that we have reduced the growth forecast for India for the next fiscal year. But, India's exports to the US are only 2% of GDP, so it is fairly insulated from all external shocks.

Read full interview on www.financialexpress.com

Source:Financial Express Newspaper, 08-10-2025
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Link:https://drive.google.com/file/d/1Cxe--YM8wlnsA4BCpt8AzYUNfFkht_ZX/view

OpenAI launches into its boring is beautiful phase

LIKE HAVING THE hottest A-lister on your arm, being a company merely associated with the OpenAI hype machine can send your street cred soaring these days. On Monday, Advanced Micro Devices shares surged 24% on the back of a deal to sell OpenAI chips, adding some $63.4 billion to its market value. But the gains didn't end with AMD, as *Bloomberg News* reported:

Figma climbed as much as 16%, HubSpot added 11%, and Salesforce gained 4.2%. Online travel firms also saw brief pops, with Expedia Group, and TripAdvisor, both advancing at least 7%. Even shares of toymaker Mattel jumped nearly 6%. What these companies had in common was their involvement in the keynote address at OpenAI's developer day in San Francisco—the "nerdapalooza" for those building products using AI.

One segment showed how toy designers at Mattel were experimenting with AI video generation to envision a completed new product from a basic design sketch. "That is a very cool new way to build toys," OpenAI Chief Executive Officer Sam Altman said. And he's right! Though I'd say the stock moves seemed less about how the application of AI might aid those businesses—which is still to be determined—and more a reflection of investors' excitement of hitching a ride to wherever the $500-billion OpenAI rocket ship is headed.

One prediction is into a fiery crash. I've noted before the many weaknesses facing OpenAI as it seeks to compete with rivals whose legacy businesses mean they are better positioned to keep investing in this new technology over the long-term. Google and Meta Platforms can rely on their advertising empires for cash, while Amazon.com has e-commerce and cloud operations. OpenAI lacks a similar kind of money-making machine. Its business is made up of machines that burn an unprecedented amount of cash—$115 billion by 2029, according to one estimate—forcing it to go cap-in-hand to investors with alarming frequency.

DAVE LEE
Bloomberg

But at Monday's developer day, OpenAI started laying out in greater detail its plan for building the backbone of a stronger business, one that is less sexy than the promise of "artificial general intelligence" or a Jony Ive-designed iPhone competitor and more, but makes practical applications out of some of the things OpenAI has actually been able to achieve.

The recent launch of Sora, a standalone TikTok-style app for AI generated video, was a headline-grabbing moment that saw the internet abuzz with talk of misinformation and intellectual property theft. What that publicity did was set the scene for the real earning potential, which was to allow third-parties to add OpenAI's remarkable video generating capabilities into their own apps and for their own use cases—a capability announced on Monday to energetic applause.

Altman also announced a supposedly simpler way to build AI agents that draw on a company's own data or systems. The showcased one roll-out of the technology by grocery store chain Albertsons that tapped into stock levels and other metrics to give store-level managers the ability to ask an agent "what's going on?" and receive a recommendation on what to do next.

All pretty dull stuff, as emphasised by a display behind Altman that at one point listed use cases such as "procurement agent", "hr onboarding", and "vendor management".

But this is of course what will be OpenAI's bread and butter. Its "legacy" business that will make loftier goals possible. Altman might spend his time going on about building AI to "benefit all humanity" but what he needs first is for OpenAI to become the operating system for the new internet—one where AI provides the interfacing between previously disconnected services and data sources. The question is whether this business can find its feet before the money runs out.

Source:Financial Express Newspaper, 08-10-2025
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Link:https://drive.google.com/file/d/1Cxe--YM8wlnsA4BCpt8AzYUNfFkht_ZX/view

Nobel for quantum mechanics

Stockholm: John Clarke, Michel H. Devoret and John M. Martinis won the Nobel Prize in physics on Tuesday for research on the weird world of sub-atomic quantum tunnelling that advances the power of everyday digital communications and computing.

One of the winners said that quantum mechanics research had already wound up in our everyday communications. Speaking over his cellphone, Clarke said: "One of the underlying reasons that cellphones work is because of all this work."

Clarke, 83, conducted his research at the University of California, Berkeley; Martinis, 67, at the University of California, Santa Barbara; and Devoret, 72, at Yale and also at the University of California, Santa Barbara. Clarke, who spearheaded the research team, told The Associated Press he was "pleased to receive this prize" alongside his two colleagues.

Martinis's wife, Jean, told AP reporters who called at his home some two-and-a-half hours after the announcement that he was still asleep and did not yet know. She said in the past they had stayed up on the night of the physics award, but at some point they decided that sleep was more important.

AP reporters were later able to speak with Martinis, once his wife decided it was late enough to wake him up.

Devoret could not immediately be contacted.

The prize-winning research in the mid-1980s took the sub-atomic "weirdness of quantum mechanics" and found how those tiny interactions can have real-world applications on the human scale level, said Jonathan Bagger, CEO of the American Physical Society. They have the potential to supercharge computing and communications.

The 100-year-old field of quantum mechanics deals with the seemingly impossible sub-atomic world where switches can be on and off at the same time and parts of atoms tunnel through what seems like impenetrable barriers.

What the three physicists did "is taking the scale of something that we can't see, we can't touch, we can't feel and bringing it up to the scale of something recognisable and make it something you can build upon," said *Physics Today* editor-in-chief Richard Fitzgerald, who in the 1990s worked in the field on a competitors' group.

The work is a crucial building block in the fast-developing world of quantum mechanics.

"Quantum computers is one very sort of obvious use, but they're also can be used for quantum sensors, so to be able to make very sensitive measurements of, for example, magnetic fields, and perhaps also for cryptography, so to encode information so it cannot be easily listened to by a third party," Mark Pearce, a professor of astrophysics and Nobel Physics Committee member, told The Associated Press.

Quantum computing when fully achieved would be a large leap from what we now know, scientists said.

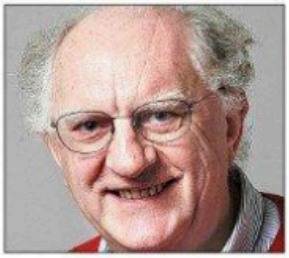
Clarke said the research "in some ways is the basis of quantum computing. Exactly at this moment where this fits in is not entirely clear to me".

Both Bagger and Fitzgerald said it's a bit of a stretch to say our everyday cellphones now use the breakthrough made by Clarke and colleagues. But ultra-sensitive measuring devices rely on that team's work and while we could have magnetic resonance imaging (MRIs) without their work, it makes it far more sensitive and useful, Bagger said.

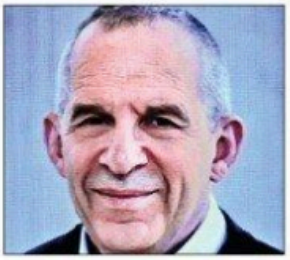
Clarke told AP he was stunned and overwhelmed to hear the news. His daughter called early in the morning to congratulate him on the win, and he said he had hundreds of emails in his inbox.

"It had never occurred to me, ever, that I would win the Nobel Prize," Clarke told The Associated Press.

"To put it mildly, it was the surprise of my life," Clarke told reporters at the announcement by phone after being told of his win. AP



John Clarke



Michel H Devoret

John M Martinis

Source:The Telegraph Newspaper, 08-10-2025
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