ATHARVA EDUCATIONAL TRUST'S
ATHARVA COLLEGE OF HOTEL MANAGEMENT & CATERING TECHNOLOGY
(Recognized by Government of Maharashtra & Affiliated to University of Mumbai- Estd. 2007-2008)
ISO 9001:2015 ISO 22000:2018
NAAC Accredited

Department of Data Science

Weekly Data Science Bytes

Fujitsu showcases AI technologies for human augmentation at CEATEC 2025

Fujitsu today announced that it will exhibit a technology showcase of its latest innovations at CEATEC 2025 [1], the annual cutting-edge IT & electronics exhibition, held at Makuhari Messe (Chiba Prefecture, Japan) from October 14 to October 17, 2025.

Visitors to the Fujitsu booth can experience an interactive demonstration of AI technologies for human augmentation. The showcase will illustrate how Fujitsu's AI technology for advanced skeleton recognition and AI agent collaborate to digitize, analyze, and provide real-time suggestions for optimal human movements, enhancing performance in fields like sports and healthcare.

Source: https://global.fujitsu/en-global/pr/news/2025/10/01-01

Technology, multi-polarity, self-reliance part of one basket: EAM Jaishankar on global developments

- Speaking about the global workforce, Jaishankar said, "This world will require a global workforce". Noting that while housing and location may be a political debate, "There is no looking away that when you look at the demand and demographics, demands cannot be met due to national demographics, you cannot run away from this reality."Jaishankar highlighted that a big question which the international economy has to address today is how to create a more acceptable, contemporary, efficient model of a global workforce which is then located in a distributed global workplace

Source: https://timesofindia.indiatimes.com/technology/tech-news/technology-multi-polarity-self-reliance-part-of-one-basket-eam-jaishankar-on-global-developments/articleshow/124205564.cms

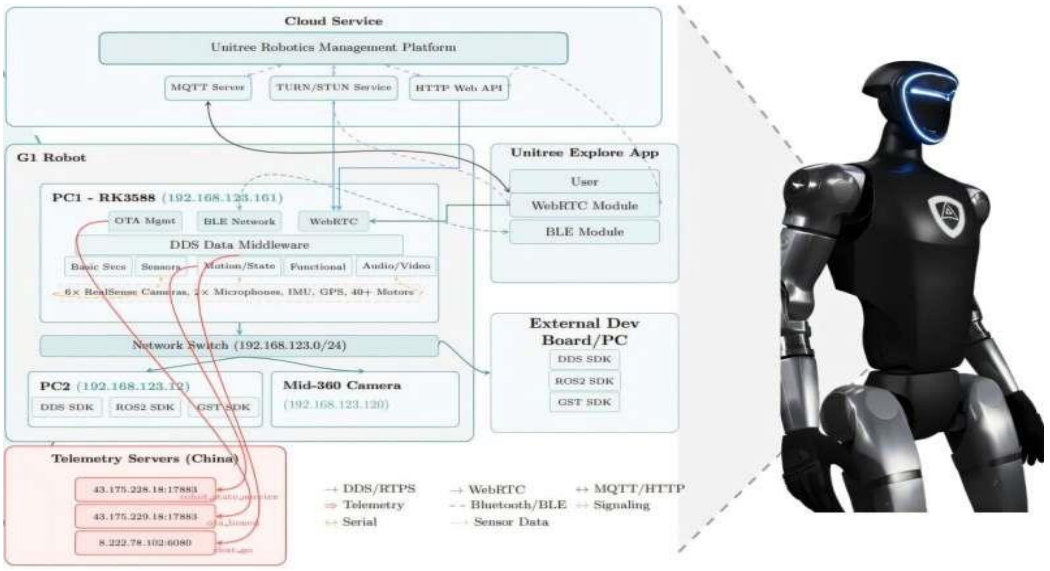
OpenAI launches Sora 2 model with a new Instagram-like app for creating, and sharing AI videos

- OpenAI says that Sora 2 is better at obeying the laws of physics, which is an important capability for any video generation model. For instance, the company says that with the previous generation of video generation, if a basketball player missed a shot, the ball may spontaneously teleport to the hoop, but with Sora 2, the ball will rebound off the backboard.

The new model is also said to be better at controllability, and OpenAI says it can follow intricate instructions spanning multiple shots while accurately persisting the world state. The model is touted to excel at realistic, cinematic, and anime style

Source: https://www.livemint.com/technology/tech-news/openai-launches-sora-2-model-along-with-new-instagram-like-app-for-creating-and-sharing-ai-videos-11759253470498.html

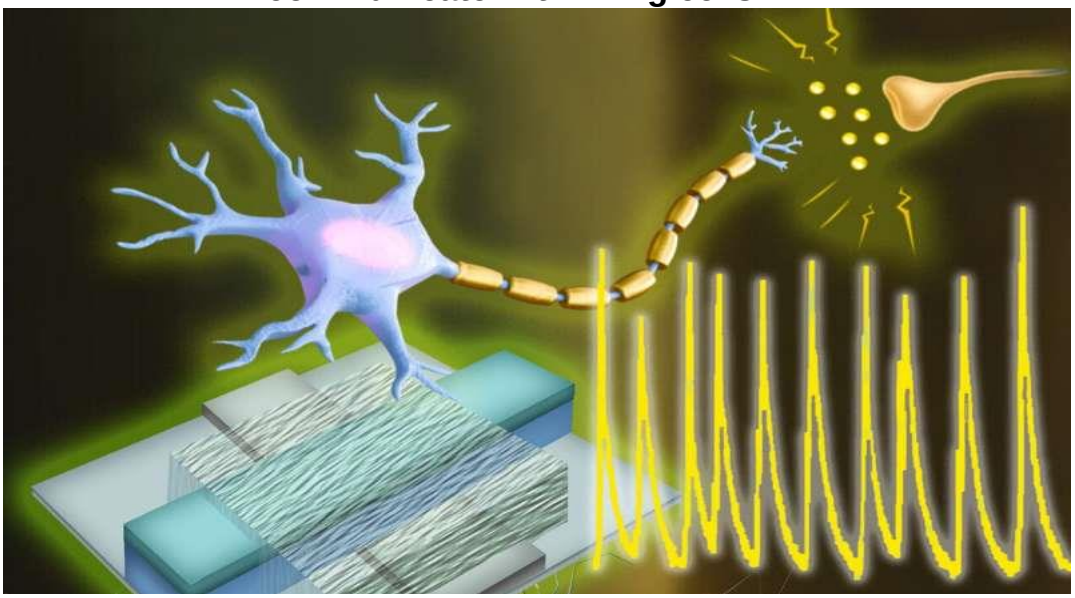
Security researchers say G1 humanoid robots are secretly sending information to China and can easily be hacked



- Researchers have uncovered serious security flaws with the Unitree G1 humanoid robot, a machine that is already being used in laboratories and some police departments. They discovered that G1 can be used for covert surveillance and could potentially launch a full-scale cyberattack on networks. One of the most serious flaws was in its Bluetooth Low Energy (BLE) setup for connecting to Wi-Fi, a system used by many consumer robots.
- The study found that the encryption protecting this process was incredibly weak and easily broken. It relies on a single, secret digital key hidden inside every Unitree robot, and simply encrypting the word "unitree" with a hardcoded key was enough to bypass security and gain control of the robot's entire system. This means a hacker could easily take it over and inject malicious commands to crash it or make it attack other devices.

Source: https://techxplore.com/news/2025-09-g1-humanoid-robots-secretly-china.html

Engineers create first artificial neurons that could directly communicate with living cells



- A team of engineers at the University of Massachusetts Amherst has announced the creation of an artificial neuron with electrical functions that closely mirror those of biological ones.
- Building on their previous work using protein nanowires synthesized from electricity-generating bacteria, the team's discovery means that we could see immensely efficient computers built on biological principles which could interface directly with living cells. "Our brain processes an enormous amount of data," says Shuai Fu, a graduate student in electrical and computer engineering at UMass Amherst and lead author of the study published in *Nature Communications*. "But its power usage is very, very low, especially compared to the amount of electricity it takes to run a Large Language Model, like ChatGPT."

Source: https://techxplore.com/news/2025-09-artificial-neurons-communicate-cells.html