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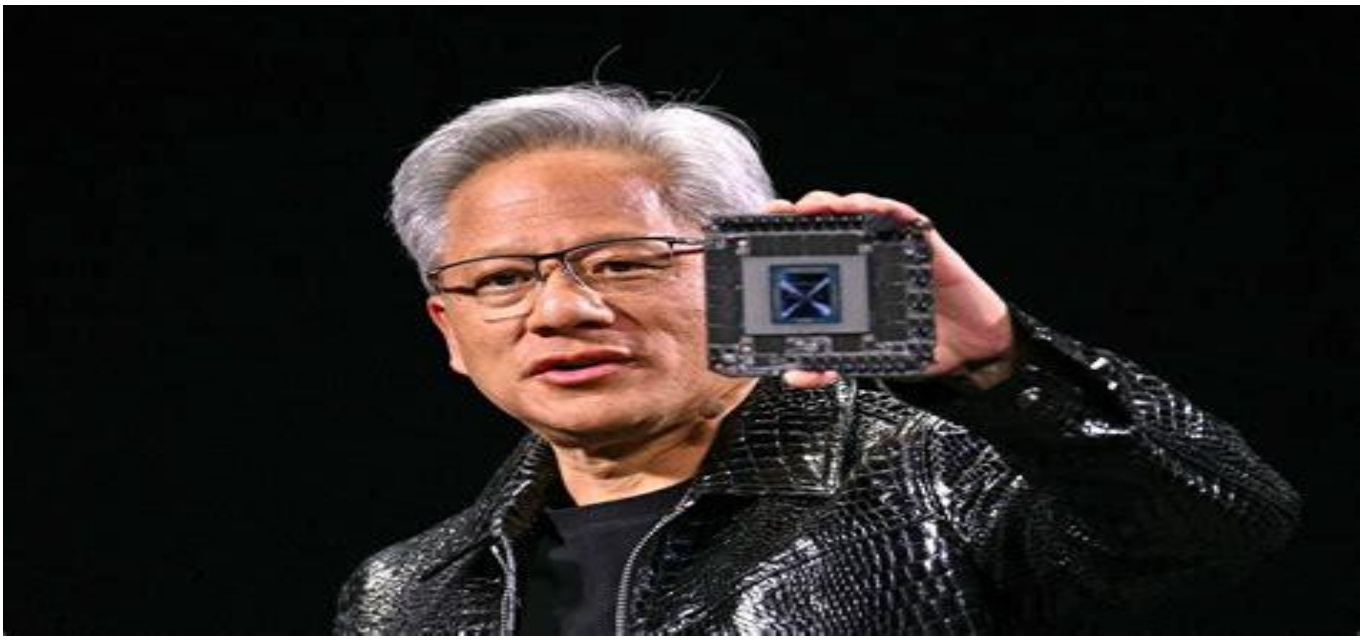
Weekly Data Science Bytes

Nvidia CEO Jensen Huang to engineers: I want you to stop coding and start



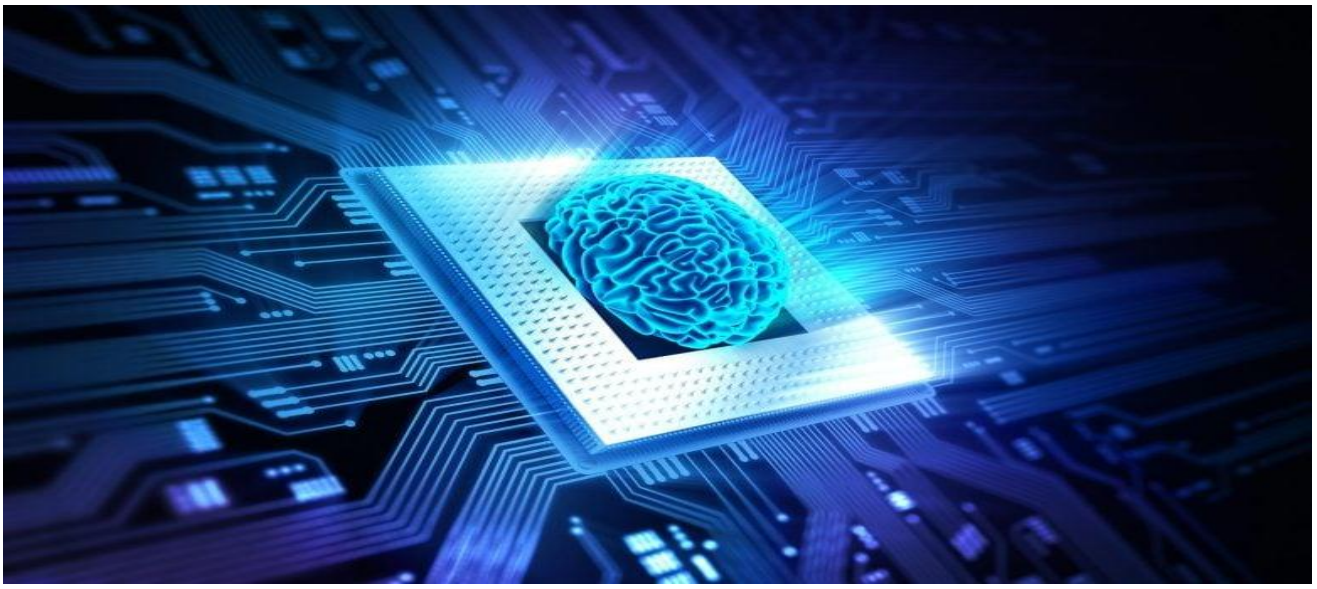
- Nvidia CEO Jensen Huang wants his engineers to spend exactly zero percent of their time writing code. In a recent appearance on the No Priors AI podcast, Huang revealed that every engineer at the $3 trillion chipmaker now uses Cursor, an AI coding assistant, throughout their workday. His goal? Free them entirely from what he calls 'syntax' so they can focus on finding and solving problems that haven't been cracked yet. "Nothing would give me more joy than if none of our engineers were coding at all," Huang said. "And they were just purely solving undiscovered problems."

Source: https://timesofindia.indiatimes.com/technology/tech-news/nvidia-ceo-jensen-huang-to-engineers-i-want-you-to-stop-coding-and-start-/articleshow/126543905.cms

These Brain-Inspired Computers Are Shockingly Good at Math

- Neuromorphic computers are modeled after the structure of the human brain, and researchers are finding that they can tackle difficult mathematical problems at the heart of many scientific and engineering fields.

- In a study published in *Nature Machine Intelligence*, Sandia National Laboratories computational neuroscientists Brad Theilman and Brad Aimone introduce a new algorithm that allows neuromorphic hardware to solve partial differential equations, or PDEs. These equations form the mathematical basis for describing systems such as fluid flow, electromagnetic behavior, and the strength of physical structures.
- The results show that neuromorphic systems can not only solve these equations, but can do so with impressive efficiency. According to the researchers, this advance could open the door to the world's first neuromorphic supercomputer, with major implications for energy-efficient computing in national security and other demanding applications.

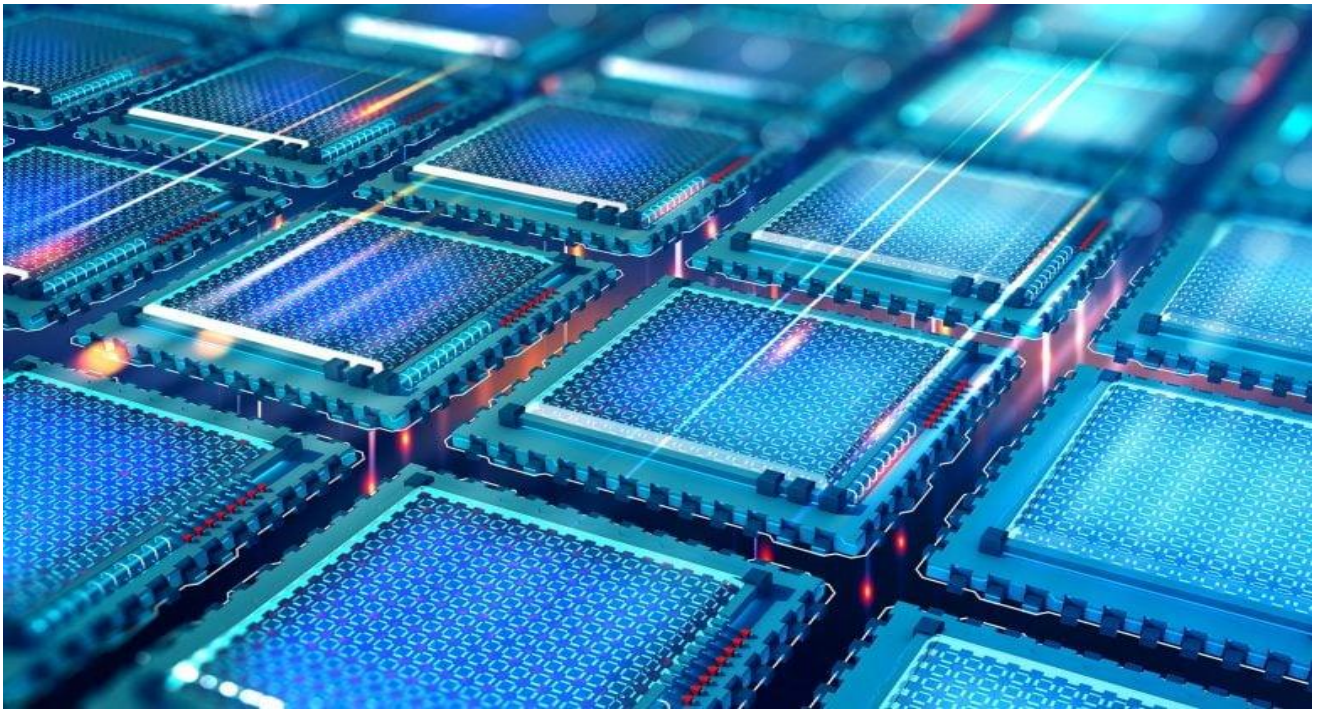


Source: https://scitechdaily.com/these-brain-inspired-computers-are-shockingly-good-at-math/

3D-Printed "Light Cages" Could Solve One of Quantum Networking's Biggest Problems

- Quantum information storage plays a central role in the development of the quantum internet and future quantum computers. Today's quantum communication systems are limited by signal loss over large distances, which restricts how far quantum information can reliably travel. Quantum memories help address this challenge by making quantum repeaters possible, allowing distant parts of a network to be linked through entanglement swapping.

- In a study published in *Light: Science & Applications*, researchers from the Humboldt-Universität zu Berlin, the Leibniz Institute of Photonic Technology, and the University of Stuttgart report a new method for building quantum memories. Their approach uses 3D-nanoprinted structures known as "light cages" that are filled with atomic vapor. By bringing both light and atoms together on a single chip, the technology offers a scalable and integrable platform for next-generation quantum photonic systems.



Source: https://scitechdaily.com/3d-printed-light-cages-could-solve-one-of-quantum-networkings-biggest-problems/

Elon Musk predicts 'work will be optional': AI and humanoid

Elon musk made a striking prediction about the future of work, suggesting that in the coming decades, employment could become optional for most people. Speaking at the US-Saudi Investment Forum, Musk shared his views on how advances in artificial intelligence (AI) and robotics may reshape society, potentially eliminating the need for traditional jobs. "I do not know exactly what long-term means, perhaps 10 to 20 years," Musk said. "My prediction is that work will be optional.

Source:http://timesofindia.indiatimes.com/articleshow/125461838.cms?utm_source=contentofinterest&utm_medium=text&utm_campaign=cppst

Half of India's next wave of unicorns will be AI companies': Google exec Seema Rao at AI Startups Conclave

- "We have 120 to 150 tech startup unicorns in India today. Easily, in the next three to five years, over half of new unicorns will be AI unicorns coming out of India. That's the opportunity we see," said Seema Rao, Managing Director, Top Partners India & Corporate Development at Google.
- Rao was speaking at the AI Startups Conclave on Thursday, January 15. The conclave in Delhi, which saw participation of startup executives from across the country, has been dubbed as the pre-summit event for the forthcoming global AI Impact Summit in partnership with Startup India and India AI mission.
- India is at a critical juncture in its AI roadmap, with many companies transitioning from building technology to scaling it for real-world impact. Even as the nation prepares to host the ambitious global AI Impact Summit, the burgeoning startup ecosystem is showing enthused vigour and momentum. On the sidelines of the conclave, indianexpress.com sat down with Rao to discuss what makes this AI wave fundamentally different from previous tech cycles.

Source: https://indianexpress.com/article/technology/artificial-intelligence/google-india-ai-startups-seema-rao-10476210/