

Department of Data Science
Weekly Data Science Bytes

Microsoft CEO Satya Nadella to Computer Science students: All of us are going to be more ...

- Microsoft CEO Satya Nadella has shared an important advice for aspiring tech professionals. The Microsoft CEO recently appeared in a conversation with tech YouTuber Sajjaad Khade where he urged students to focus on building strong fundamentals in computational thinking, even as AI shapes the software industry. He stressed that despite AI's growing role in coding, the ability to break down problems logically and design systematic solutions remains essential.
- However, Nadella warned that even with AI, success still depends on giving clear, structured instructions—a skill that blends technical knowledge with systems thinking. “The path to being that software architect gets speeded up,” Nadella said, adding that soon, “All of us are going to be more software architects.”



Brain-Inspired AI Learns To See Like Humans in Stunning Vision Breakthrough



- The IBS-Yonsei research team introduces a novel Lp-Convolution method at ICLR 2025.
- A team of researchers from the Institute for Basic Science (IBS), Yonsei University, and the Max Planck Institute has developed a new artificial intelligence (AI) technique that brings machine vision closer to the way the human brain processes visual information. Known as Lp-Convolution, this method enhances the accuracy and efficiency of image recognition systems while also lowering the computational demands of traditional AI models.

Bridging the Gap Between CNNs and the Human Brain

- The human brain excels at quickly identifying important features within complex visual scenes, a level of efficiency that conventional AI systems have struggled to achieve. Convolutional Neural Networks (CNNs), the most commonly used models for image recognition, analyze images using small, fixed square-shaped filters. While effective to a degree, this design limits their ability to detect wider patterns in fragmented or variable data.

This Tiny Robot Can Jump 10 Feet High – Without Legs



- By studying a slender, leaping parasite thinner than a human hair, engineers at Georgia Tech developed a soft robot capable of hopping both forward and backward.
- Inspired by the jumping movements of a tiny parasitic worm, engineers at Georgia Tech have developed a 5-inch soft robot capable of leaping as high as a basketball hoop.
- The robot, constructed from a silicone rod reinforced with a carbon-fiber spine, achieves jumps reaching heights of up to 10 feet despite lacking legs. The design was inspired by high-speed video recordings of nematodes, which revealed how these worms contract their bodies into unusual shapes to propel themselves forward and backward.

**AI and future of jobs: Here's what top tech CEOs Sam
Altman, Jensen Huang are saying**



- As more companies adopt artificial intelligence and automate jobs, fears about AI's impact on low-level tasks and entry-level roles have sparked a heated debate about the future of white-collar jobs—especially among those just entering the workforce.
- Despite widespread fears that artificial intelligence could automate jobs and reduce employee wages, Nvidia CEO Jensen Huang believes that while jobs are undoubtedly evolving in the AI era, entry-level white-collar roles won't be entirely wiped out. Huang leads Nvidia, now the world's most valuable technology company.
- "Some jobs will be obsolete, but many jobs are going to be created... Whenever companies are more productive, they hire more people," Huang said at the VivaTech conference in Paris last week

Intel's 20-core Ultra 7 processor is now available with a massive discount



- The Intel Core Ultra 7 265K, Intel's latest 20-core desktop processor, is getting more affordable. Now, the chip is [available on Amazon with a 36% discount](#), saving you \$144, which you can spend on a higher-spec graphics card, better cooling, a bigger SSD, or some new games.
- If you want to build a computer with the discounted Intel Core Ultra 7 265K, you will need a motherboard with the LGA 1851 socket and 800 series chipset.
- The Core Ultra 7 265K has 20 cores, 8 of which are performance cores, and 12 are efficiency cores operating at lower clocks for less demanding tasks. Performance cores have the maximum clock speed of 5.4GHz, while efficiency cores peak at 4.6GHz. However, the processor is unlocked, which means you can push those clocks higher if you have enough cooling and a motherboard that supports overclocking.