

Department of Data Science
Weekly Data Science Bytes

**Nvidia announces humanoid robot plans, self-driving car
technologies at CES 2026**

- Nvidia ([NVDA](#)) is touting its latest robotics advancements at CES 2026 as the broader tech industry begins a large-scale effort to bring humanoid robots to life.
- During the company's keynote on Monday, CEO Jensen Huang revealed that firms ranging from Boston Dynamics and Caterpillar ([CAT](#)) to LG Electronics and NEURA Robotics are using Nvidia's robotics technologies to develop and power their various bots
- Nvidia has claimed that physical AI could revolutionize the \$50 trillion manufacturing and logistics industries, and the company wants to be at the center of it all.

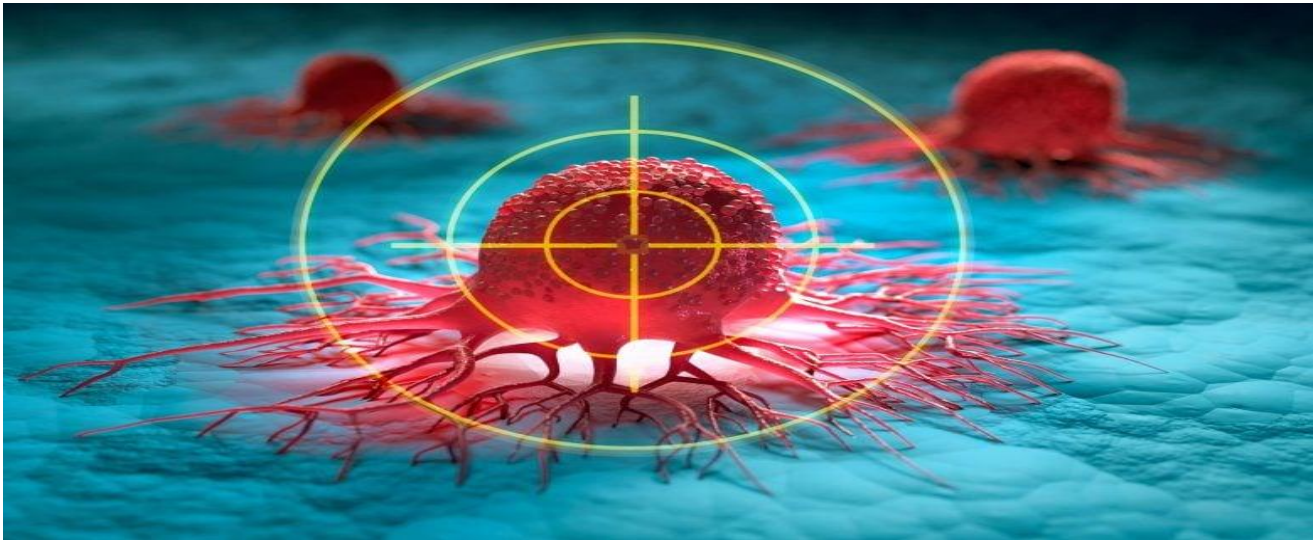


A 200-Year-Old Law of Physics Breaks Down at the Atomic Scale



- Researchers at the [University of Stuttgart](https://www.uni-stuttgart.de/) have shown that the Carnot principle, a foundational rule of thermodynamics, does not hold for atomic-scale systems whose physical properties are interconnected (so-called correlated objects).
- The finding, published in *Science Advances*, could help pave the way for the development of extremely small and energy-efficient quantum engines.
- Traditional thermal engines, such as internal combustion engines and steam turbines, work by converting heat into mechanical motion. In recent years, however, advances in quantum experiments have made it possible to shrink heat engines down to microscopic dimensions.

Scientists Unveil Breakthrough Method to Mass-Produce Cancer-Fighting Natural Killer Cells



- **A new method for engineering natural killer cells could make cancer immunotherapy more efficient, scalable, and affordable, potentially reshaping how these treatments are produced.**
- Chinese scientists have reported a new technique that makes it easier to genetically modify natural killer (NK) cells for use in cancer immunotherapy.
- In the immune system, NK cells provide rapid, early protection against viruses and cancer, along with other important functions. That combination has made them a strong candidate for immunotherapy.

**LG creates humanoid AI-powered robot to make "housework
a thing of the past"**



- LG Electronics is set to launch an AI-driven home robot called LG CLOiD at the Consumer Electronics Show (CES) 2026 in Las Vegas. The launch represents LG's most daring move in the home robotics segment.
- The company asserts that CLOiD is intended to function as more than just a novelty or a device with a singular purpose. It is a key element in [LG's](#) vision of future living environments, which envisions smart technologies autonomously managing routine household tasks. By monitoring routines and reacting to its environment, the robot is designed to act as a flexible assistant proficient in managing devices, aiding inhabitants, and seamlessly integrating into everyday life.

**Nvidia unveils self-driving car tech as it seeks to power more
products with AI**



- Nvidia has unveiled a new tech platform for self-driving cars as the world's leading chip-maker seeks more physical products to embed AI into.
- Speaking at the annual CES technology conference in Las Vegas, boss Jensen Huan said the system - called Alpamayo - would bring "reasoning" to autonomous vehicles.
- That would allow cars to "think through rare scenarios, drive safely in complex environments, and explain their driving decisions," Huang claimed.
- He said Nvidia was working with Mercedes to produce a driverless car powered by the tech, which would be released in the US in the coming months before being rolled out in Europe and Asia.