

Department of Data Science
Weekly Data Science Bytes

PM Modi urges India's private sector and startups to step forward with vision of launching 50 rockets per year



- Prime Minister said that India's progress in the space sector today is making the lives of ordinary citizens easier. In his video message on the occasion of National Space Day, Mr Modi said, India views space technology not only as a tool for scientific exploration but also as a means to enhance Ease of Living. He said, Space-tech is increasingly becoming an integral part of governance in India.
- Mr Modi cited examples such as satellite-based assessment in crop insurance schemes, satellite-enabled information and safety for fishermen, disaster management applications and the use of geospatial data in the PM Gati Shakti National Master Plan. He said India is rapidly advancing in breakthrough technologies like semi-cryogenic engines and electric propulsion and will soon launch the Gaganyaan mission.
- The Prime Minister asserted that in the coming times, India will build its own space station. Mr. Modi said that in a short time, National Space Day has become an occasion of enthusiasm and attraction among the youth. He added that the space sector is achieving one milestone after another, and in the last 11 years, the government has implemented many reforms in the space sector.

Source: <https://www.newsonair.gov.in/pm-narendra-modi-says-india-is-rapidly-advancing-in-breakthrough-technologies-in-space-sector/>

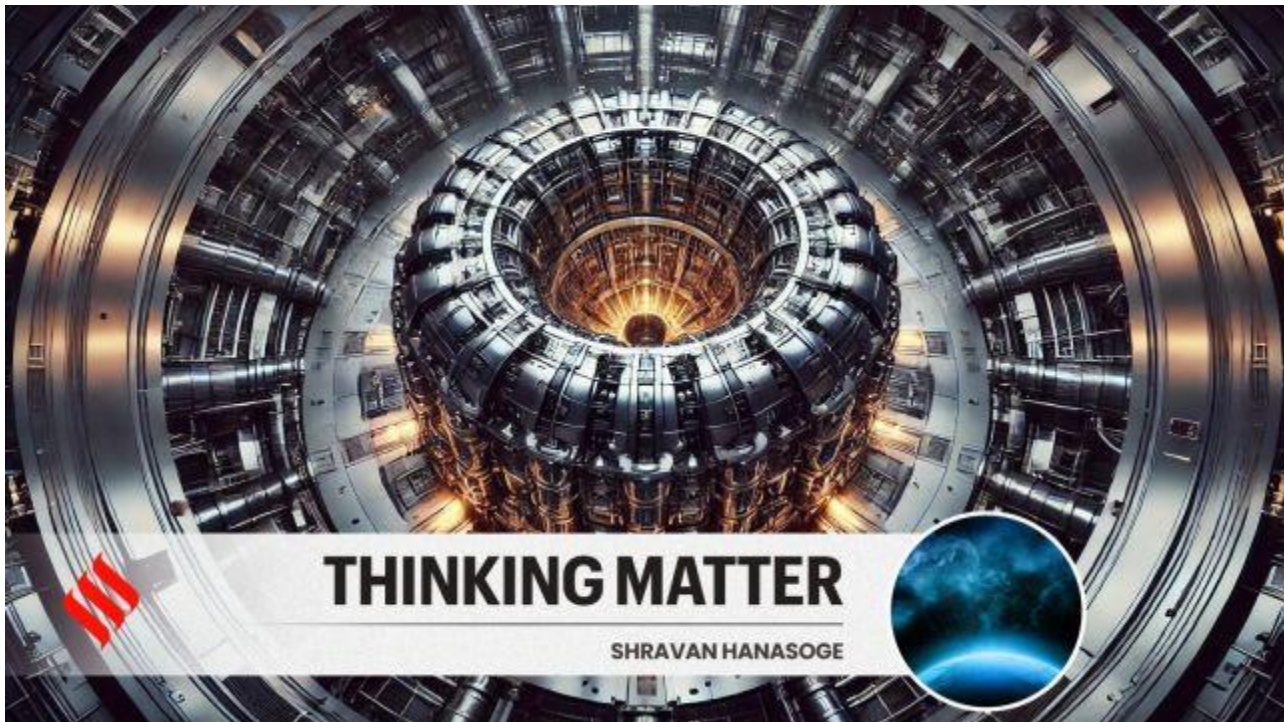
India's first Made-in-India semiconductor chip coming by 2025-end, says PM Modi; adds 'working rapidly' on 6G



- Prime Minister Narendra Modi on Saturday, 23 August, said semiconductor factories are coming up in India and the country will see its first domestically made chip in the market by the end of 2025. The PM also added that work is also progressing rapidly on developing a 'Made in India' 6G network.
- [Modi](#) noted that India could have begun semiconductor manufacturing 50–60 years ago but missed the opportunity for decades. He said the government has now changed this situation, with new factories being set up and chip production about to begin, marking a step towards technological self-reliance.

Source: <https://www.livemint.com/news/indias-first-made-in-india-semiconductor-chip-coming-by-2025-end-says-pm-modi-adds-working-rapidly-on-6g-11755961881785.html>

Bottling the Sun: Why nuclear fusion is now an engineering challenge



- For millennia, humans looked up at the Sun in awe and reverence. Ancient civilizations worshipped it as a god, prayed for its warmth, and feared its eclipse. The source of its eternal fire remained a mystery. That mystery was solved in 1939, when physicist Hans Bethe revealed how the Sun, and billions of other stars, truly shines: through nuclear fusion, the merging of hydrogen nuclei into helium at unimaginable pressures and temperatures.
- Science had at last given an answer to what had once seemed divine, solving a thousands-year-old mystery. Bethe was reported as saying that he hit upon the answer by looking through the periodic table step by step. He said, “So you see, this was a discovery by persistence, not by brains.”

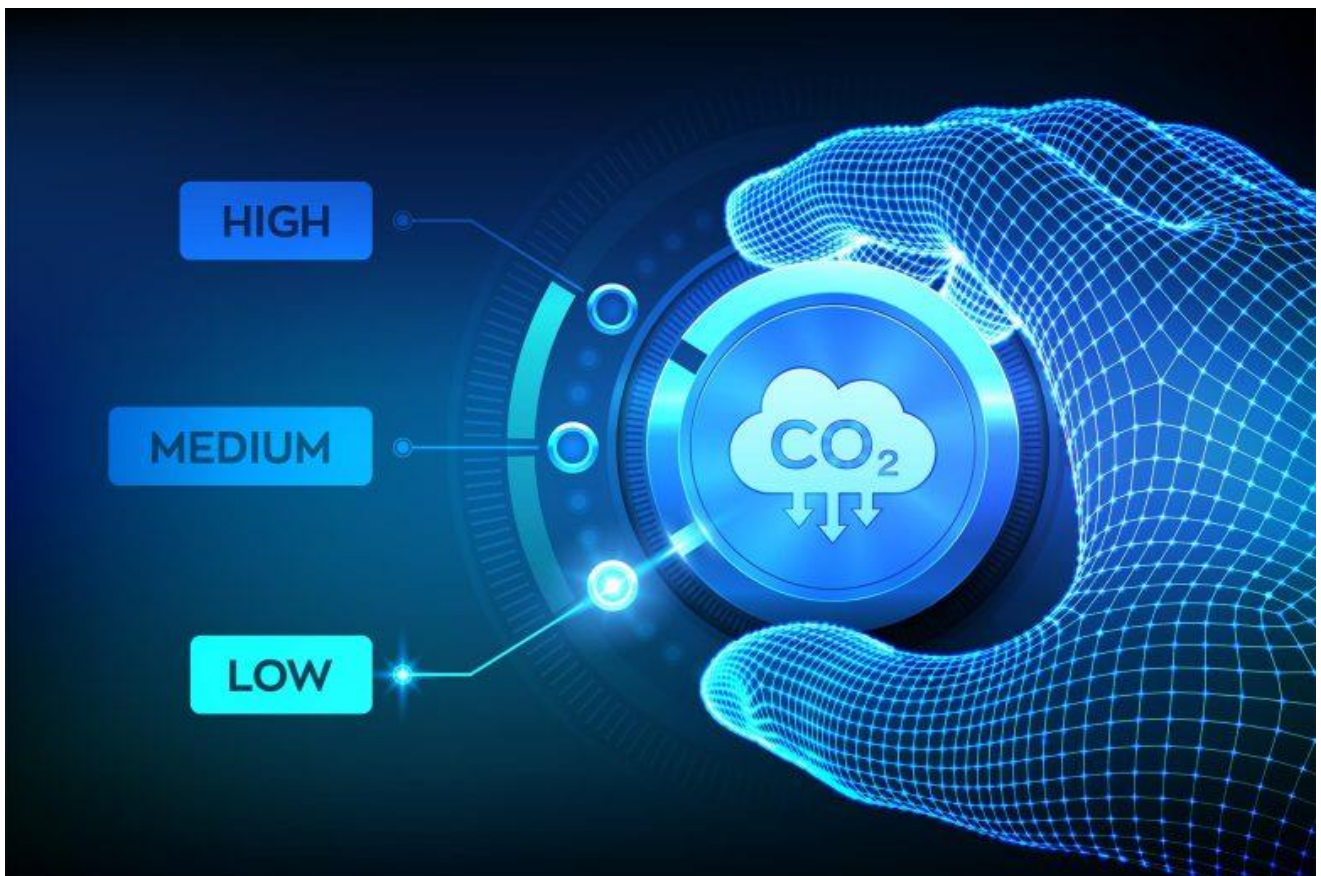
Google CEO Sundar Pichai says: We have introduced at least one round of in-person interviews just to make sure



- Google is bringing back face-to-face job interviews as CEO Sundar Pichai responds to widespread AI-powered cheating that has compromised the integrity of virtual hiring processes. The company's shift marks a dramatic reversal from pandemic-era remote recruitment practices that prioritised convenience over verification. During a February internal town hall meeting, Google employees directly confronted leadership about the cheating crisis. "Can we get onsite job interviews back?" one employee asked, according to audio recordings reviewed by CNBC. "There are many email threads about this topic. If budget is a constraint, can we get the candidates to an office or environment we can control?"

source:<https://timesofindia.indiatimes.com/technology/tech-news/google-ceo-sundar-pichai-says-we-have-introduced-at-least-one-round-of-in-person-interviews-just-to-make-sure/articleshow/123495271.cms>

Hidden Cost of Smart AI: 50× More CO₂ for a Single Question



No matter what you ask an AI, it will always generate an answer. In order to do this, whether the response is accurate or not, the system relies on tokens. These tokens are made up of words or fragments of words that are transformed into numerical data so the AI model can process them.

That process, along with the broader computing involved, results in carbon dioxide (CO₂) emissions. Yet most people are unaware that using AI tools comes with a significant carbon footprint. To better understand the impact, researchers in Germany analyzed and compared the emissions of several pre-trained large language models (LLMs) using a consistent set of questions.

Source: <https://scitechdaily.com/hidden-cost-of-smart-ai-50x-more-co2-for-a-single-question/>

Apple in talks with Google over Gemini AI to power next-gen Siri



- Apple is reportedly exploring a partnership with Google to integrate its Gemini artificial intelligence system into Siri, marking what could be the most significant overhaul of the voice assistant since its launch.
- According to Bloomberg, preliminary discussions are under way about using a customised version of Google's Gemini model to power the next generation of Siri. The move reflects Apple's recognition that its in-house AI efforts may not be sufficient to deliver the level of performance and personalisation it envisions.