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LUCKNOW - INDIA



[DOI-10.5281/zenodo.14830364](https://doi.org/10.5281/zenodo.14830364)



TECH DOSE

JUNE 2025



DEPARTMENT OF COMPUTER APPLICATION

TECHNICAL COMMITTEE

1

EU Publishers File Antitrust Complaint Over Google's AI Summaries

Independent EU publishers, led by the Independent Publishers Alliance, lodged an antitrust complaint accusing Google of using its AI-generated "AI Overviews" to steal traffic from news sites. Analytics firm SimilarWeb reports that 37 of the top 50 U.S. news websites experienced traffic declines, with zero-click searches reaching 69% in May 2025. The coalition is urging the European Commission to impose interim restrictions and push for reforms to safeguard original journalism—claiming potential copyright violations. Google counters that these summaries drive new opportunities for publishers.



Wikipedia

3

UK Demands Overhaul of Alan Turing Institute

UK Technology Secretary Peter Kyle urged a restructuring of the Alan Turing Institute to better align with national security and defence needs. A recent £100million funding round triggered scrutiny, with critics warning that a defence-first focus may undermine the institute's impartial academic mission. ATI leaders have stated willingness to collaborate with government priorities.



theguardian.com

Intense Talent War in AI Arms Race

2

Tech giants—including Meta, Microsoft, and Google—are offering massive compensation packages, reportedly up to ~\$100million, to attract top AI researchers. Meta alone poured \$15billion into Scale AI and poached talent aggressively. This highstakes competition is creating a rift: elite AI experts are in high demand, while many other developers face layoffs and hiring slowdowns.



thetimes.co.uk

Tech Earnings Season Spotlight: AI Investments

4

As Q2 earnings season approaches, analysts focus on AI-related investments. Firms like Meta and Alphabet are spending an estimated \$64–75billion on AI infrastructure. Despite geopolitical and tariff headwinds, robust demand for AI compute, especially in memory chips (e.g., Micron), is expected to buoy performance. However, regulators and investors await proof of long-term ROI.



blog.google

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Google Launches AI Weather Lab & Robotics On-Device

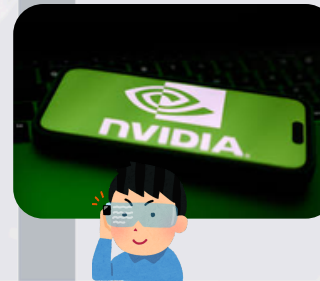
Google unveiled “Weather Lab,” a model hosted in partnership with the U.S. National Hurricane Center to predict tropical cyclones via AI. They also introduced “Gemini Robotics On-Device,” enabling multimodal robot reasoning directly onboard devices, plus Gemini 2.5 enhancements. Google highlighted progress in AI-assisted cancer detection as part of its June updates.



blog.google

8

UK FCA, Nvidia Launch AI Sandbox

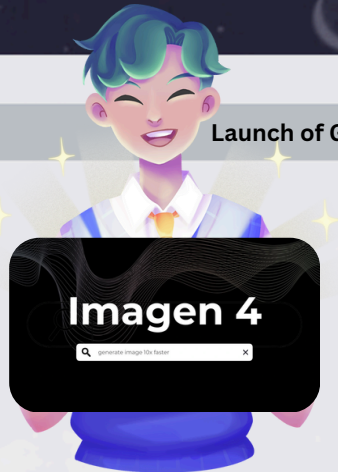


The UK Financial Conduct Authority announced a new AI sandbox (launching October) in partnership with Nvidia. It will allow firms to safely test AI in financial services using state-of-the-art accelerated computing, promoting innovation while managing regulatory risks.

fintechfutures.com

Launch of Gemini 4-Integrated Imagen 4 & Video AI

6



Google upgraded its Imagen 4 image model and integrated it into Gemini, enhancing in-image text generation and watermarking. Meta released V-JEPA 2, a video-predictive model enabling zero-shot robotic control. Apple debuted on-device generative AI in iOS19, macOS, and iPadOS, allowing privacy-focused image and style creation via its Neural Engine.

ts2.tech

Arm Rebrands with New Product Architecture Names

9

Neoverse
Lumex
arm
Niva Zena
Orbis

Arm introduced a revamped naming architecture—Neoverse, Niva, Lumex, Zena, Orbis—and simplified performance tiers (Ultra, Premium, Pro, Nano, Pico). This move aims to help developers and clients navigate offerings in cloud, automotive, mobile, and edge computing with clearer segmentation.

newsroom.arm.com

7

Tradeweb Appoints Head of AI from AWS

Tradeweb, a fintech marketplace, recruited Sherry Marcus—formerly AWS applied science director—to lead its AI initiatives. Her expertise will drive AI-powered dealer analytics, price discovery, and workflow automation. A move ahead of an FCA sandbox trial launching with Nvidia later this year.



fintechfutures.com

10

NVIDIA & G42 To Launch Regional AI Cloud Services



NVIDIA forged a partnership with G42 to make its AI hardware available locally in the Middle East. This collaboration will offer cloud-based access to NVIDIA's latest chips, enhancing regional AI adoption without reliance on offshore data centers.



digitalbrick.ai

11

Tokyo to Democratize Quantum, Robotics & Space Tech

At the World Economic Forum's June 2025 gathering in Tianjin, WEF announced its 2025 Technology Pioneers. These include startups in micro-reactors, quantum computing, advanced robotics, and space tech aiming to drive global innovation across multiple sectors.



www.weforum.org

Mistral AI Launches Enterprise Code Assistant

12



mistral.ai

Europe's Mistral AI released "Mistral Code," a privacy-focused, on-premise coding assistant rivaling GitHub Copilot. Supporting 80+ languages and enterprise governance, it aims to strengthen AI-driven software development in data-sensitive environments.

13

Apple Embraces AI-Driven Chip Design

Apple's hardware chief Johny Srouji confirmed the company is using AI to aid custom chip (Silicon) design. The strategy involves integrating generative AI alongside EDA tools like Cadence and Synopsys to accelerate development across its computing line.



reuters.com

14

OpenAI Expands with Jony Ive Startup & Google TPUs

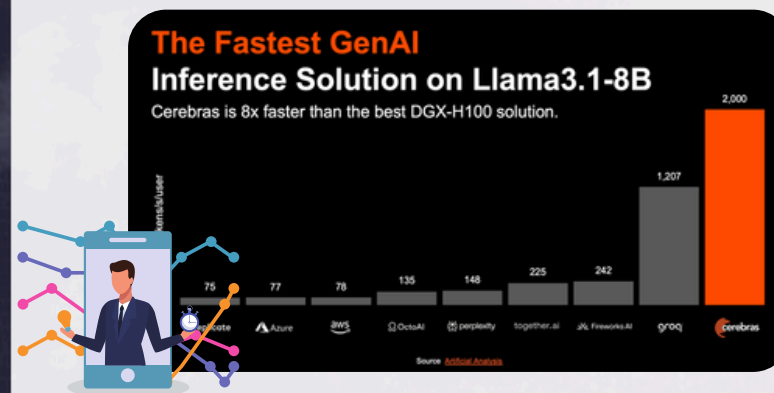
In June, OpenAI acquired Jony Ive's startup "io" (announced May 21). They also began utilizing Google Cloud TPUs alongside Nvidia GPUs for ChatGPT, diversifying compute suppliers—a strategic infrastructure pivot.



[wikipedia](https://wikipedia.org)

Cerebras Expands Datacenters & Crushes GPU AI Benchmarks

15



Cerebras opened six new data centers across the U.S. and Europe in March, boosting inference throughput 20x. Its processors now outperform NVIDIA Blackwell chips with Llama4, delivering 2x faster model performance, and recently unveiled the 32B-param Qwen3 LLM.

[wikipedia](https://wikipedia.org)



FLYING HIGH

Birth
10/10/1985
Lucknow

Secretly filled NDA form at the age of 16
On 17th June, 2006 got enrolled in IAF Fighter stream
Have flown Su-30, MIG-21, 29, Jaguar, Hawk, Dornier and N-32

AXIOM MISSION 4



- Joint campaign of ISRO, NASA, JAXA(Japan) and ESA of EU
- Axiom Space is a private company of US
- Launched on May 29th with a crew of 4

Training

Crew's training of Mission System, Emergency Process, Working in Zero Gravity and Life support done at :



- Johnson Space Center, NASA
- SpaceX Center, California
- Simulation Labs, Axiom

Launch

Crew Leader - Peggy Whitson (US)



Crew Pilot

Shubhanshu Shukla (IN)

Crew Member

Slawosz Uznański-Wiśniewski (POL)
Tibor Kapu (HUN)



SpaceX Dragon Crew Capsule launched from Kennedy Space Center
Astronauts went to ISS on Falcon-9 rocket

EXPERIMENTS

- Examinations and observations carried out for 2 weeks
- Tests on weaknesses in tissues in space
- Effects of computer screen on space crew
- Studies on small organisms called Tardigrades

60 Scientific Studies



FROM LUCKNOW TO SPACE

Group Captain Shubhanshu Shukla docked to the International Space Station (ISS) on June 26. He is not only the first Indian to go there but he is also the Chief Pilot of 4 crew members. Shubhanshu Shukla of Lucknow after reaching the space conveyed the message that India is still "Saare Jahan Se Accha!". Let us know more about the journey of Captain Shubhanshu and the progress of Indian in Space:

"I am travelling alone but this is the journey of 1.4 crore people."

- Group Captain Shubhanshu Shukla



PROGRESS

- ISRO made its 100th Launch this year
- Testing of Gaganyaan's Test Vehicle-D2 (TV-D2) done in May
- NISAR satellite on GSLV-F16 launched in collaboration with NASA in June

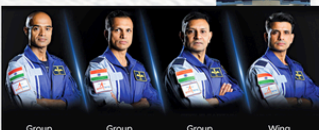
YOGA BUFF

Shubhanshu is the first Indian astronaut to try yoga asanas in microgravity

- Changes in Living things in Space like Cynobacteria, Micro Algae, Heart related research, Effects of heat, Growth of Plants, Seed Germination
- ISRO established research centers in Karnataka, Delhi and Kerala.
- Fenugreek will be grown on ISS, Behavior will be recorded

GAGANYAAN MISSION

- On 21 January, 2025, Gaganyaan's Mission First Phase completed
- Unmanned mission will be sent on LVM3



Group Captain Prashanth Nair
Group Captain Ajit Krishnan
Group Captain Angad Prathap
Wing Commander Shubhanshu Shukla

CREW

- 4 IAF pilots selected, 3 will be sent for the mission
- Prashanth Balakrishnan Nair, Angad Prathap, Ajit Krishnan and Shubhanshu Shukla

GAGANYAAN RUNWAY

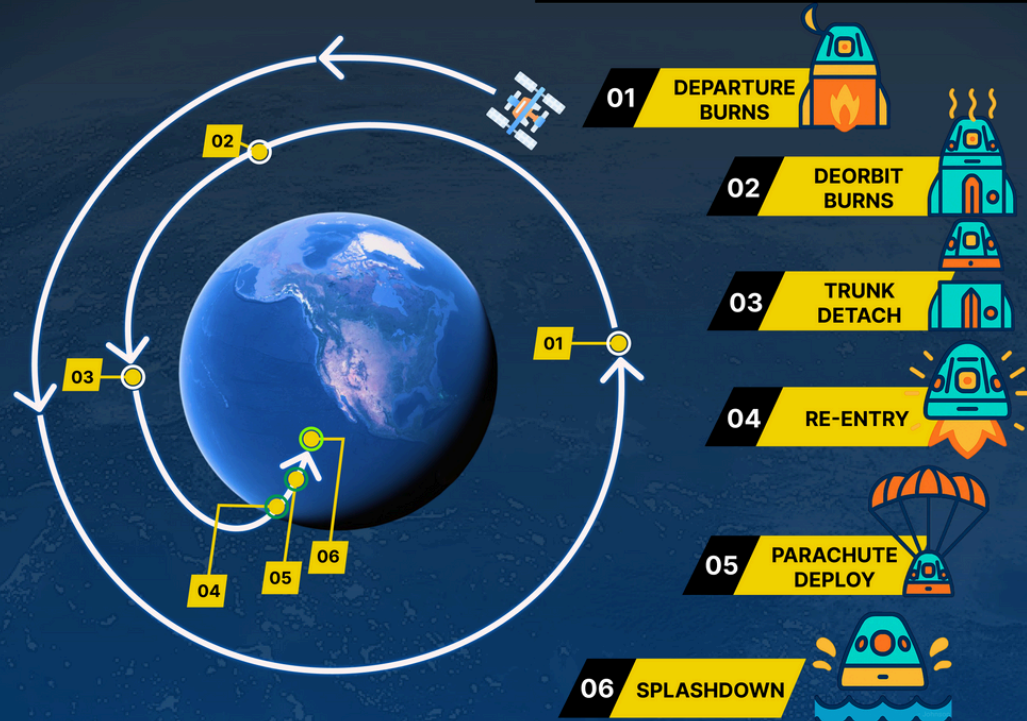
- Preliminary training - Institute of Aerospace Medicine, Bengaluru
- Yuri Gagarin Cosmonaut Training Center, One year course in Russia



31 Countries Included

Welcome back to Earth, #Ax4!

After orbiting the Earth 320 times and spending 20 days aboard the International Space Station (ISS), Indian Air Force Group Captain Shubhanshu Shukla returned safely to Earth on Tuesday (July 15, 2025) afternoon. Alongside astronauts from Poland and Hungary, Shukla became the first Indian to travel to space in over four decades.



4:35 PM

On Monday, Crew left from the space station aboard Dragon Capsule Grace

2:58 PM

On Tuesday, the parachutes were deployed

3:01 PM

Smooth splashdown in San Diego, California on Tuesday

320
REVOLUTIONS
IN
20
DAYS

WORLD SOCIAL MEDIA DAY

launched by Mashable on June 30, 2010.

Celebrating a Global Revolution - One Post at a Time

Launched by Mashable on June 30, 2010, World Social Media Day recognizes how platforms like Instagram, Facebook, X (formerly Twitter), YouTube, and WhatsApp have shaped a new era of communication.

From personal connections to global campaigns, social media has become an essential tool in education, business, entertainment, activism, and more.




"Social media is not just an activity; it is an investment of valuable time and resources."

— Sean Gardner





THE IMPACT OF SOCIAL MEDIA

From movements like #BlackLivesMatter to viral fundraisers and crisis alerts — social media has changed how we respond to the world.

Positive Impacts:

-  Awareness & Advocacy: Social justice, mental health, climate change.
-  Career Growth: LinkedIn and Twitter help professionals network globally.
-  Business Expansion: Instagram and Facebook have helped small businesses grow.

Challenges:

-  Misinformation and fake news.
-  Social comparison and anxiety.
-  Privacy and data exploitation.
-  Use social media - don't let it use you.

DID YOU KNOW?

The first hashtag was used in 2007.

270 million+ Facebook accounts are fake.

The most followed person on Instagram (2025):
Cristiano Ronaldo.

WORLD SOCIAL MEDIA DAY BY NUMBERS

3.5 BILLION

The number of people using social media.

68%

of U.S. adults are on Facebook, making it the most widely used platform in the country.

3 HOURS

An average person spends 3 hours daily scrolling, sharing, liking, or chatting online.

500 MILLION

users post or view Instagram Stories every single day.

300 HOURS

of video are uploaded to YouTube every minute — that's 432,000 hours a day!

95 MILLION

photos are uploaded to Instagram each day — capturing life, one snapshot at a time.

270 MILLION

the estimated number of fake profiles on Facebook.

35 MINUTES

is the average daily time a user spends on Facebook.