

**GYAN
GANGA**



**CORE
CONNECT**

WEEKLY

NEWSLETTER

8 December, 2025

ISSUE: 14

 [LinkedIn](#)

 [Instagram](#)

 coreconnect@ggits.org

Tech Trends

- **AWS re:Invent unleashes new AI chips and agents:**

AWS unveiled Graviton5 CPUs, Trainium3 UltraServers, Bedrock AgentCore, and “AI Factories,” targeting cheaper, faster foundation model training and deployment for enterprises globally.

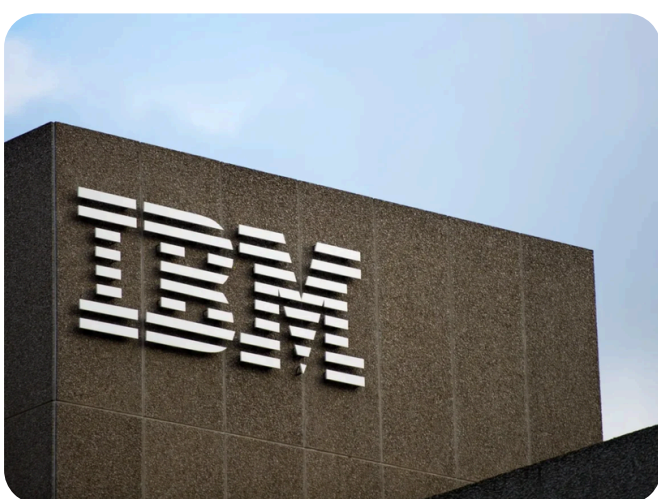


- **Apple to resist India’s mandatory cyber app order:**

Apple plans to push back against India’s directive to preload a non-removable state cyber-safety app on iPhones, citing privacy, security, and user-consent concerns.

- **Global AI boom triggers memory chip shortage crisis:**

Exploding demand for AI data centers is causing an acute shortage of DRAM and NAND, forcing AI firms and consumer-electronics makers into intense supply and pricing battles.



- **IBM to acquire Confluent in \$11 billion AI data deal:**

IBM agreed to buy real-time data streaming company Confluent for about \$11 billion, strengthening its hybrid cloud and AI platforms with Kafka-based streaming infrastructure.

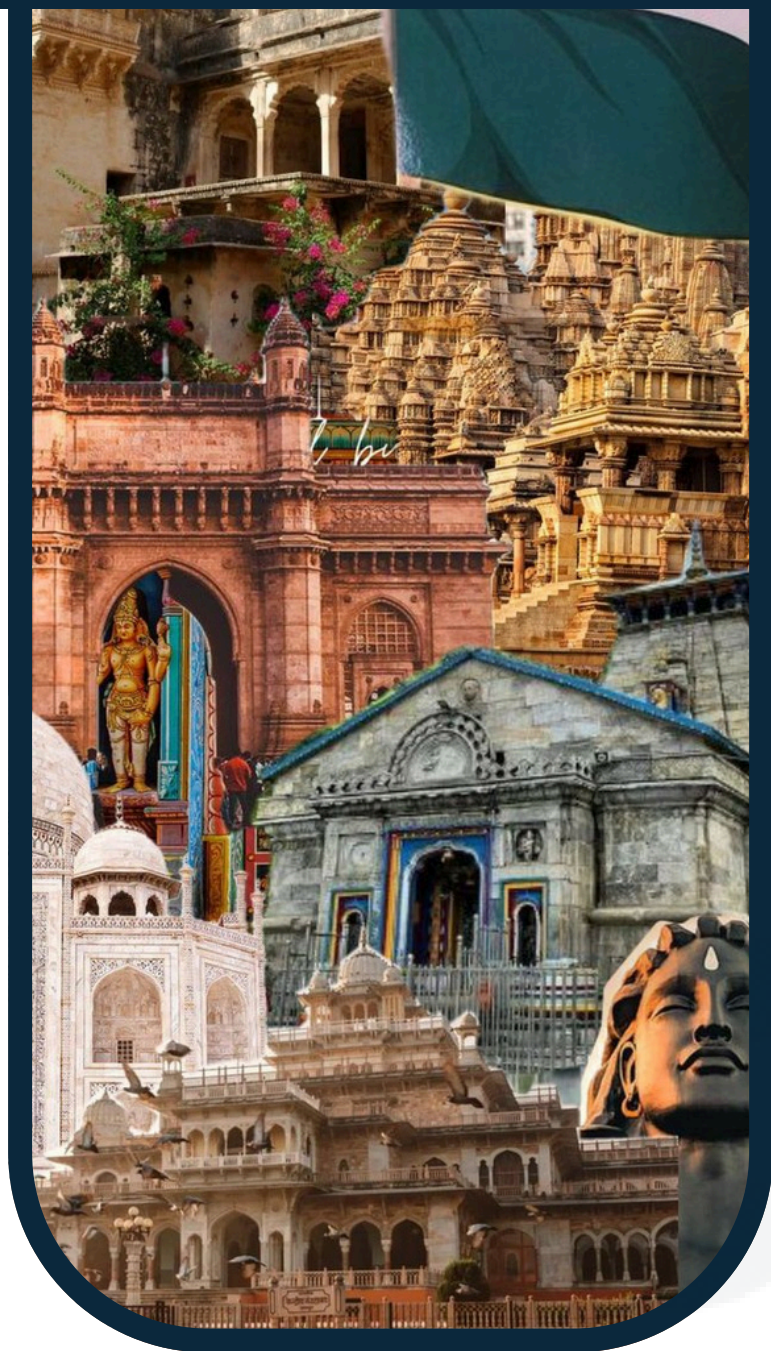
- **China’s home-grown chip IPOs surge amid AI race:**

Blockbuster listings of Chinese chipmakers like Moore Threads highlight soaring domestic investor demand and Beijing’s push to accelerate self-reliant AI and semiconductor ecosystems.



World Wrap

INDIA



- **IndiGo Flight Crisis Escalates**

IndiGo cancellations escalated after new pilot-rest rules, stranding thousands. Government imposed fare caps, mandated swift refunds, and sought accountability from the airline.

- **India halts coal-capacity expansion**

Government says coal generation capacity will peak at 307 GW by 2035. No plans for further coal capacity increase beyond that date.

- **India's Clean-Energy Surge**

India added a record 31.25 GW non-fossil capacity this year, led by solar, pushing total clean-energy share to 50% nationwide.

- **Kohli, Rohit Shine Bright**

Veterans Virat Kohli and Rohit Sharma delivered stellar performances in India's ODI series vs South Africa, boosting team morale and stability.

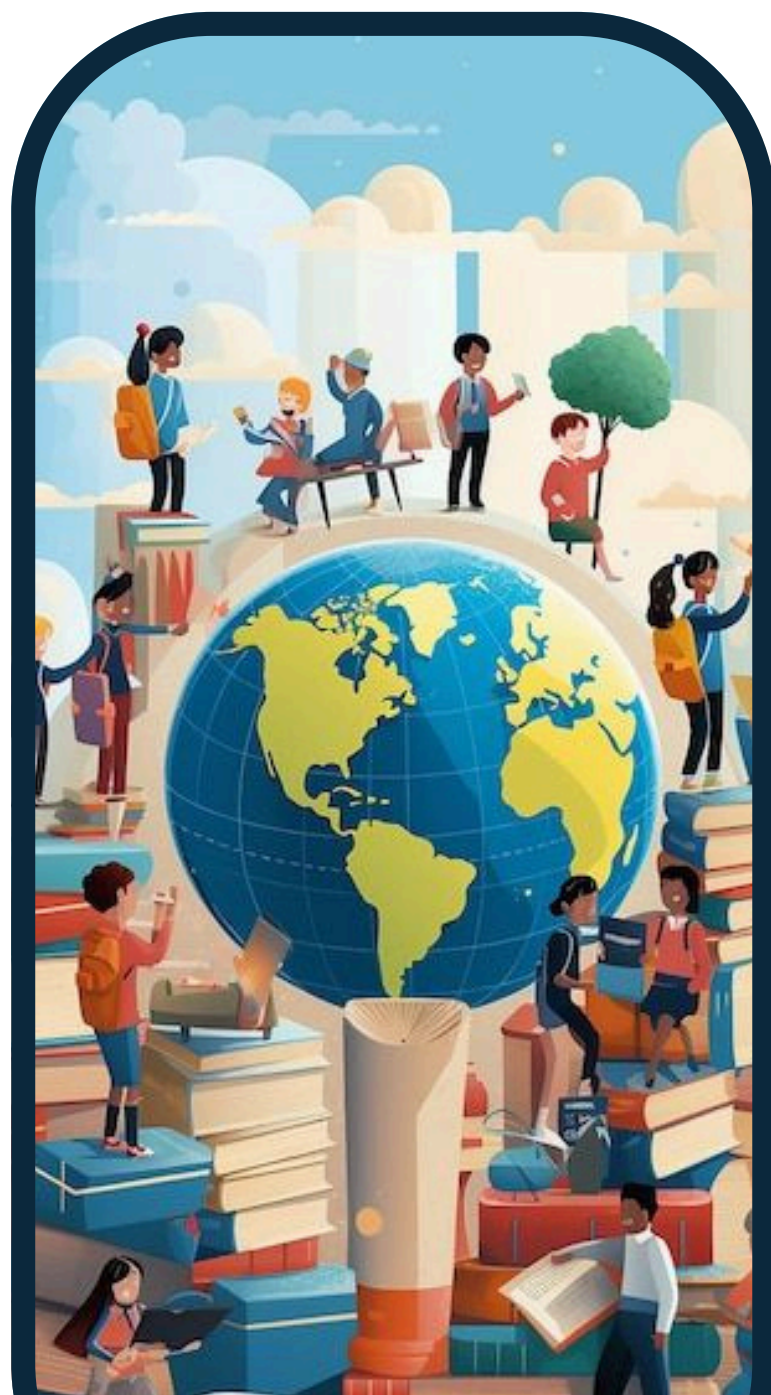
- **India Shines at ISSF**

Simranpreet Brar won 25m pistol gold, Aishwary Tomar 50 m rifle silver, and Suruchi Singh 10 m air pistol gold.

- **Red Fort Hosts UNESCO Meet**

India is hosting UNESCO's global intangible-heritage committee meeting at Delhi's Red Fort, prompting a temporary public closure for the high-level event.

Sports & Culture



World Wrap

RBI Cuts Repo Rate

RBI slashed the repo rate by 25bps to 5.25%, aiming to boost liquidity, reduce borrowing costs, and support growth.

RBI Injects Bank Liquidity

RBI plans to inject ₹1.5lakh crore into banks this December, easing liquidity, supporting credit flow, and stabilizing lending operations.

Sitharaman Unveils Customs Overhaul

Finance Minister announces major customs reform to simplify procedures, rationalize duties, enhance trade efficiency, and align India with global standards.

Business & Economy



Macron Warns China Trade

French President Macron threatens tariffs, urging China to reduce export surplus, boost EU investment, and correct unsustainable trade imbalances.

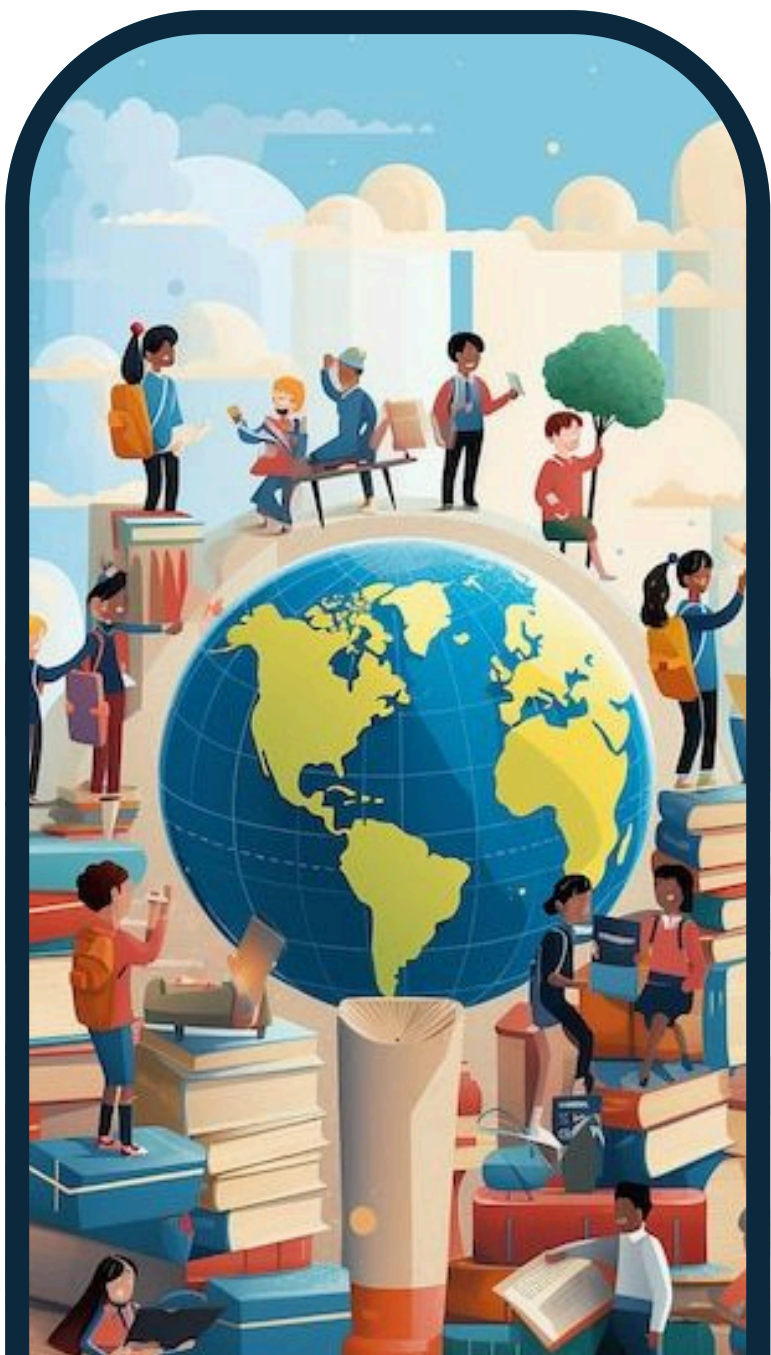
Fed Rate Cut Expected

Markets expect the Federal Reserve to lower U.S. interest rates next week — boosting equities, oil and risk-assets globally

Samsung Unveils TriFold Phone

Samsung launches Galaxy Z TriFold — first tri-fold smartphone with 10-inch display, Snapdragon 8 Elite, 16 GB RAM, high-end design.

Global & Tech



CODING TIPS & CHALLENGES

Tips

Think About Edge Cases

Your code should handle the weird stuff too.

Use a Consistent Style

Formatting is not fashion. It is readability.

Test Often

Small tests prevent big headaches.

Write Reusable Components

Future projects will thank you.

Learn Keyboard Shortcuts

Speed is also a skill.

CHALLENGES

Challenge 25: Find Length of String (Basic)

Count string length without using len().

Challenge 26: Sum of Even Numbers (Intermediate)

Find the sum of all even numbers in a list.

Challenge 27: Rotate an Array (Advanced)

Rotate an array by k positions without using slicing.

OPEN SOURCE SPOTLIGHT



Blender – 3D Modeling & Animation Suite

Blender is a powerful 3D creation tool used in films, animation, and game design. It supports modeling, rigging, sculpting, VFX, video editing, and rendering. Students use Blender to learn animation or create projects for film, art, or engineering visualization. With a massive global community, learning resources are widely available.

Key Features:

- 3D modeling & animation
- Real-time rendering
- Used professionally
- Free & open-source

Check out the solutions for all coding challenges here



ENGINEERING BEYOND CSE



MECHANICAL

VVDN Technologies Unveils Mechanical Innovation Park in Gurugram

VVDN Technologies has inaugurated a Mechanical Innovation Park in Gurugram, designed to advance research and manufacturing in areas such as rapid prototyping, mold and tool development, and high-precision part production. The facility aims to strengthen India's position in IoT hardware and advanced manufacturing, providing a future-ready environment for students and industry professionals to collaborate on next-gen mechanical innovations.

Noida International Airport Becomes India's First Project to Use Low-Carbon LC3 Cement

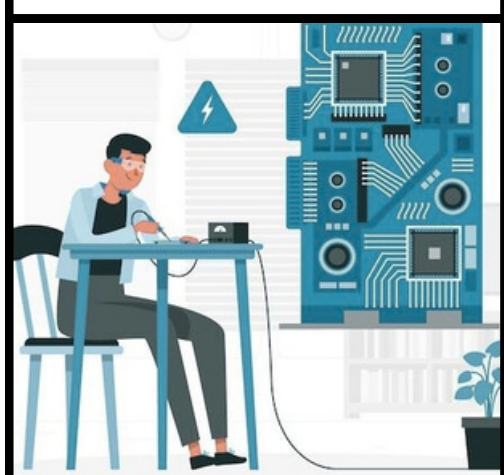
In a major step toward sustainable infrastructure, Noida International Airport has adopted **Limestone Calcined Clay Cement (LC3)** — a low-carbon alternative that emits nearly 40% less CO₂ and costs 25% less than traditional cement. The project sets a new benchmark for eco-friendly construction and supports India's broader climate goals without compromising strength or durability.



CIVIL

ELECTRICAL

Indian Railways Tests Drone-Based Solar Panel Cleaning Technology



North Central Railway has successfully conducted a drone-based solar panel cleaning trial at its solar power plants. The drones efficiently clean panels without water, reducing both maintenance costs and manual labor. This innovation enhances power generation efficiency, promotes renewable energy adoption, and highlights Indian Railways' focus on sustainability and smart infrastructure.

STARTUP & INNOVATION ZONE



STARTUP TIP

- 1. Design your startup like a product — iterative and evolving.
- 2. Create an emotional hook for your audience.
- 3. Focus on long-term vision, not short-term noise.

NEWS

UPDATE



AI Startup Flex Raises \$60 Million

AI fintech startup Flex has raised \$60 million in a round led by Portage Ventures to build an AI-driven platform offering credit, payments, treasury, and cash-flow tools for mid-sized businesses worldwide.

[READ MORE](#)

Startup of the Week

Flex

FLEX

- Flex is creating an AI-powered operating system for finance, combining credit, payments, and treasury tools into a single, integrated platform for mid-market companies.
- The \$60 million round, led by Portage Ventures, will help Flex scale its product, engineer advanced AI capabilities, and expand into more global markets.
- By targeting mid-sized firms often underserved by traditional banks and legacy software, Flex aims to modernize corporate finance workflows and unlock more efficient capital use.

Beyond Books

Theodore Roosevelt

Do what you can, with what you have, where you are..



[Read more](#)

Winston Churchill

Success is not final, failure is not fatal: It is the courage to continue that counts.



[Read more](#)

Tech Giggles

When you switch from C++ to Python



Thanks guys



So long, partner

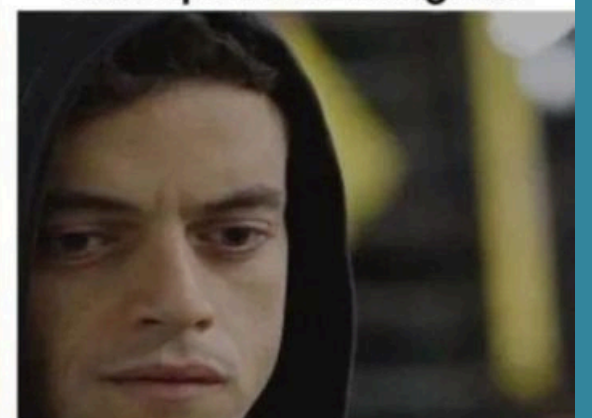
NORMAL PEOPLE:

clicks on the Youtube link they like



PROGRAMMERS:

"If i click on this, Youtube recommendation algorithm will think i like this type of content. I will copy link and open it in incognito"



English Vocabulary Boost

SPEAK SMART (Real-life Phrases)

Offering Help

❌ Need help?

✅ Would you like me to help you with that?

Giving Feedback

❌ It's wrong.

✅ You're close! Maybe try adjusting this part a little.

WORD WISE (Vocab Boost)

Busy

Advanced: Occupied / Engaged

Meaning: Actively involved in work.

Example: She's been engaged in multiple projects lately.

Cold

Advanced: Chilly / Freezing

Meaning: Having a low temperature.

Example: It was a freezing morning today.

SYNONYMS & ANTONYMS

Strong

Synonyms: Powerful, Sturdy, Tough

Antonyms: Weak, Fragile, Frail

Soft

Synonyms: Gentle, Tender, Smooth

Antonyms: Hard, Rough, Harsh

GRAMMAR GYAN

Much / Many

Much: Used with uncountable nouns.

Example: I don't have much time.

Many: Used with countable nouns.

Example: There are many students in the hall.

Community & Feedback



*Your Feedbacks are Really
Valuable to Us*

CORE
CONNECT

At Core Connect, no student misses out on tech trends, hackathons, or campus buzz! 🚀 Through our weekly newsletter, fun-filled events, and awareness sessions, we connect juniors and batchmates with exciting opportunities, career insights, and global happenings—while keeping things lively, engaging, and student-driven.

*Become a Valuable Part of Our Community
Just on a Click*

