

**GYAN  
GANGA**



**CORE  
CONNECT**

**WEEKLY**

**NEWSLETTER**

29 November, 2025

**ISSUE: 13**

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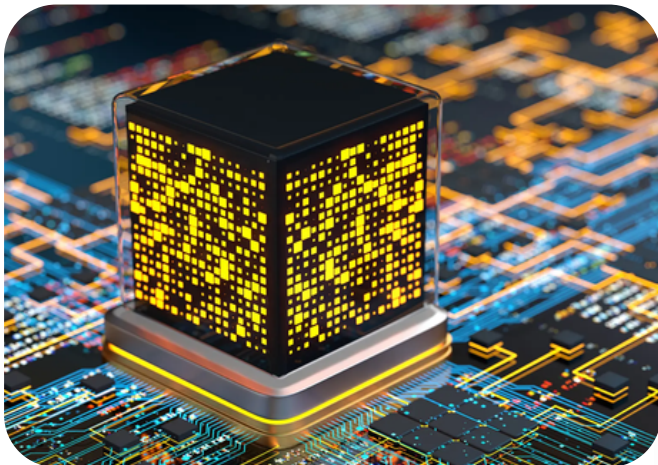
 [coreconnect@ggits.org](mailto:coreconnect@ggits.org)



# Tech Trends

- **AWS and Google Cloud collaborate on multicloud networking:** AWS and Google Cloud jointly launch a multicloud networking solution with automated, high-speed private connectivity improving cloud interoperability.

[Read more](#)



- **Researchers develop unshakable quantum memory block:** New quantum memory block design promises stable, long-lasting quantum state storage using advanced materials and techniques.

[Read more](#)

- **ChatGPT adds voice mode for conversational interaction:** ChatGPT users can now switch to voice mode within chat, enabling natural spoken dialogue with the AI for enhanced user experience.

[Read more](#)

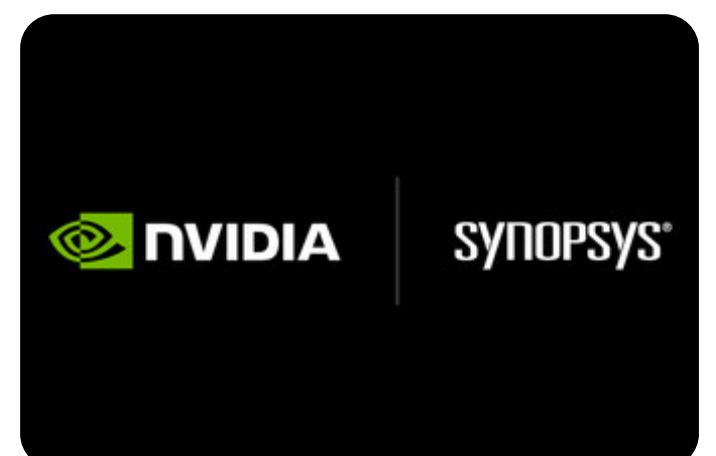


- **Chandrayaan-4 slated for 2028 launch, confirms ISRO chairman:** ISRO Chairman V Narayanan announces Chandrayaan-4 lunar mission launch planned for 2028, continuing India's space exploration.

[Read more](#)

- **Nvidia invests \$2 billion in EDA company Synopsys:** Nvidia acquires a \$2 billion stake in Synopsys, enhancing AI chip design and semiconductor software capabilities.

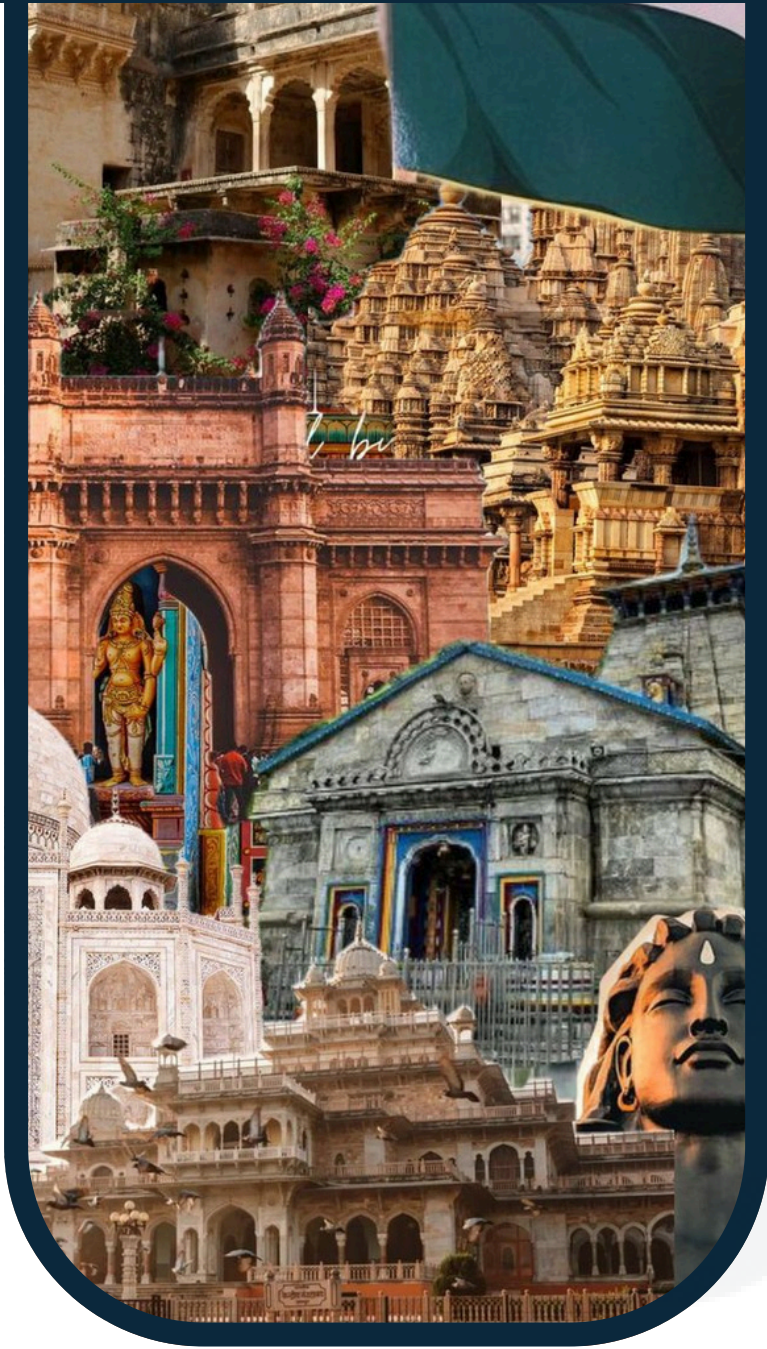
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# World Wrap

## INDIA



- **PM Modi urges Opposition: No drama, focus on delivery**

PM Modi appealed to the Opposition to avoid नाटक (drama) in Parliament and focus on productive debates and delivery during the Winter Session.

- **Parliament Winter Session begins today**

Opposition plans to press for debates on Delhi Red Fort blast, SIR voter-roll exercise, EC neutrality, farm distress, and national security as government seeks smooth, 15-sitting session.

- **West Bengal TMC intensifies anti-SIR campaign; Mamata to rally in border districts**

Mamata Banerjee plans rallies in Malda, Murshidabad, and Cooch Behar against ongoing electoral roll revision.

- **India's women's blind cricket team wins first T20 Blind World Cup**

India's women's blind cricket team triumphed in the T20 Blind Cricket World Cup, marking a historic victory.

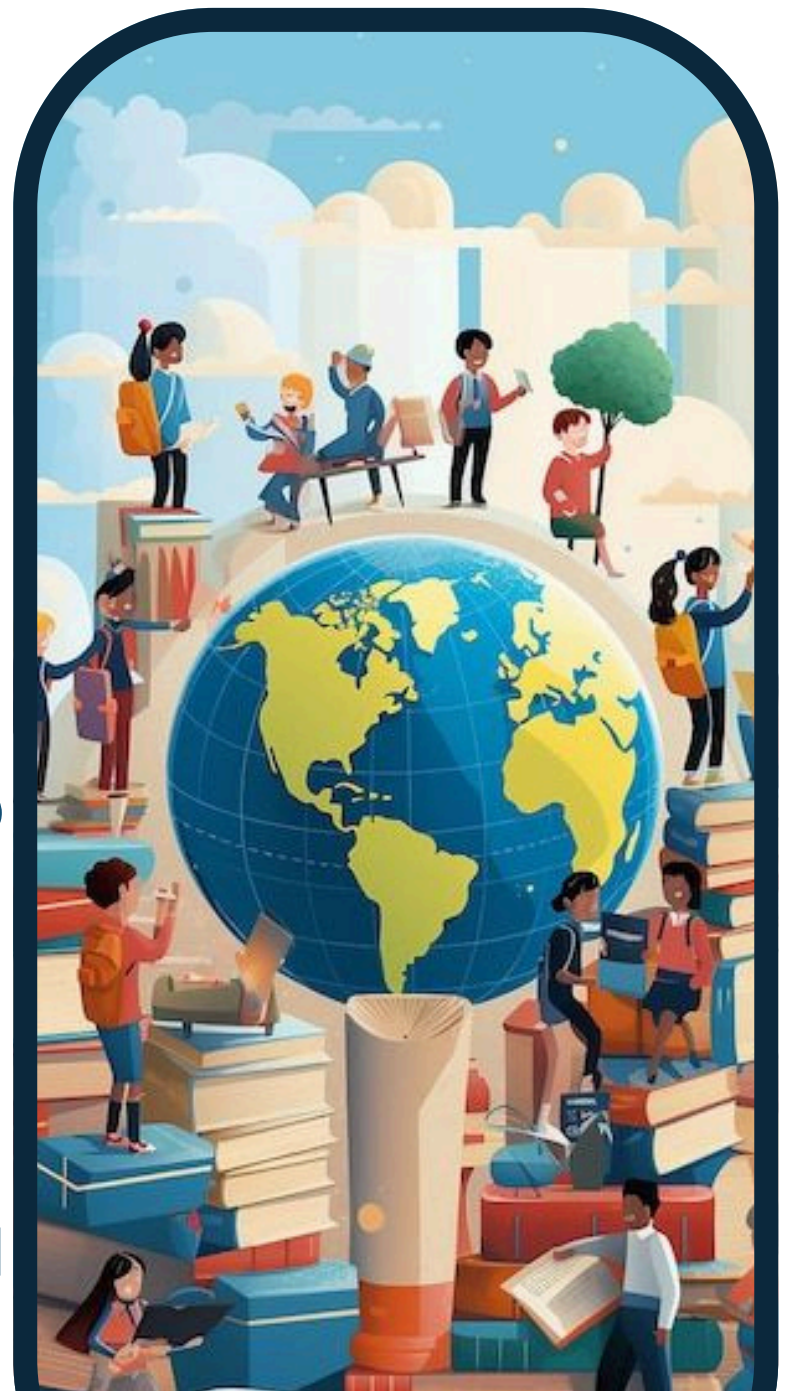
- **WWE RAW showdown featuring Roman Reigns and Brock Lesnar entertains fans**

WWE RAW featured an intense match between Roman Reigns and Brock Lesnar, delighting wrestling enthusiasts worldwide.

- **Mumbai hosts the Rolling Loud India hip-hop festival with international acts**

Mumbai's Rolling Loud festival brought top global hip-hop artists together, celebrating urban music and culture.

## Sports & Culture





# World Wrap

## India's manufacturing growth slows to nine-month low amid US tariff impact

India's factory growth slipped to its lowest in nine months due to reduced demand from US tariffs affecting exports.

## India's industrial output growth slows sharply to 0.4% in October 2025

India's industrial production growth decelerated to 0.4% in October, reflecting a sluggish manufacturing sector.

## Global economic forecasts show cautious optimism despite geopolitical tensions

World economic outlook remains cautiously optimistic despite geopolitical uncertainties and trade tensions affecting growth.

## Business & Economy



## Tajikistan border attacks

Tajikistan says cross-border fire from Afghanistan killed five and wounded five, leading President Emomali Rahmon to order tougher security along the frontier.

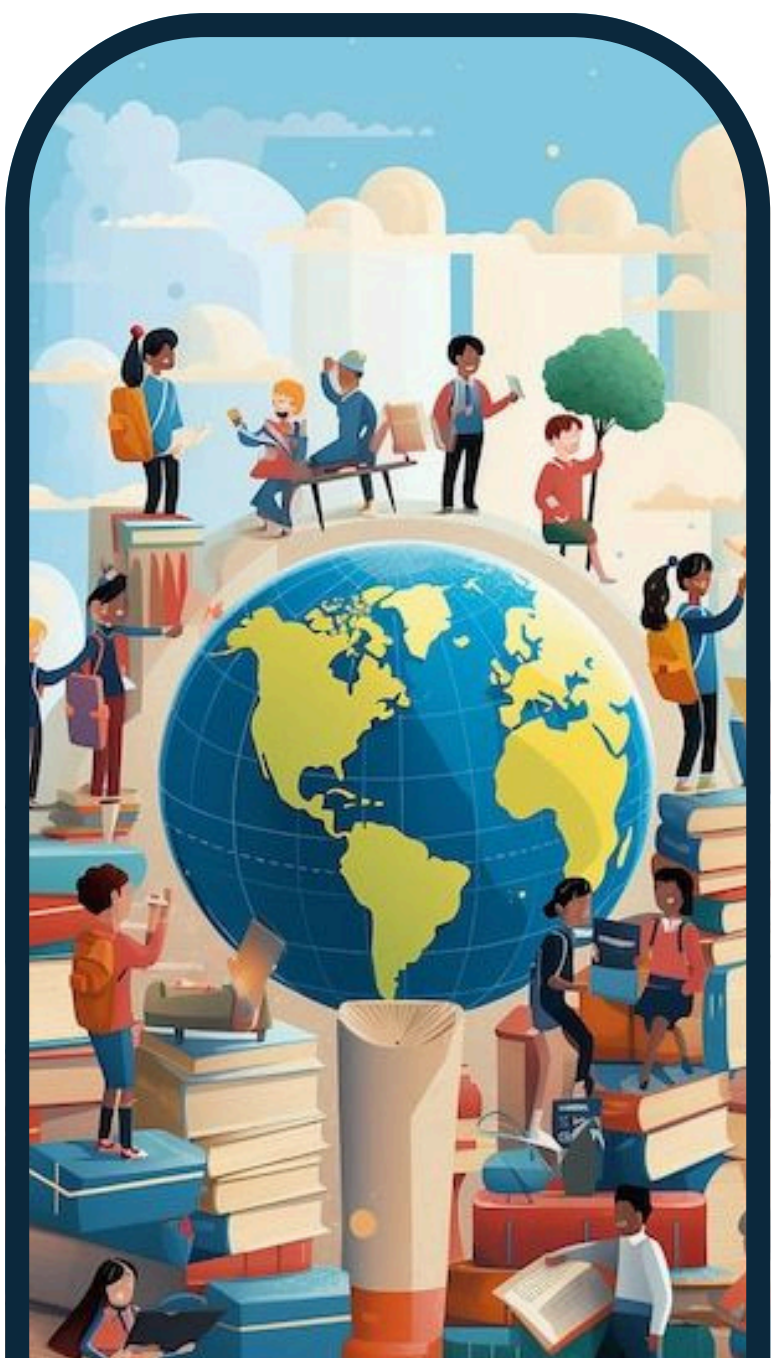
## Flood-hit Indonesia, Sri Lanka, Thailand race to rescue survivors

Recovery and rescue operations are underway after catastrophic floods and landslides killed at least 469 people in Indonesia, 334 in Sri Lanka, and 162 in Thailand, with hundreds still missing.

## Hasina, UK MP Tulip Siddiq convicted in Bangladesh graft case.

A Dhaka special court sentenced ex-Prime Minister Sheikh Hasina to five years and her niece, British MP Tulip Siddiq, to two years for corruption over a government land project.

## Global & Tech





# CODING TIPS & CHALLENGES

## Tips

### Don't Code in Production

Always test changes in a safe environment first.

### Track Your Learning

Keep notes, snippets, and lessons organized.

### Collaborate and Contribute

Open-source projects are your best teachers.

### Accept Code Reviews Gracefully

Feedback is growth — not criticism.

### Enjoy the Process

Coding is creative. Have fun building, breaking, and fixing things.

## CHALLENGES

### Challenge 22: Swap Two Numbers (Basic)

Swap values of two variables without using a third variable.

### Challenge 23: Check Armstrong Number (Intermediate)

Check if a number equals the sum of its digits raised to the power of number length.

### Challenge 24: Binary Search (Advanced)

Implement binary search manually on a sorted array.

## OPEN SOURCE SPOTLIGHT



### Inkscape – Vector Graphics & Logo Design

Inkscape is used to make logos, icons, illustrations, and scalable vector graphics. Unlike pixel-based editors, artwork created here stays sharp at any size. It supports SVG format and integrates into professional workflows. Ideal for branding, design clubs, creative portfolios, and UI graphics.

#### Key Features:

- SVG native editing
- Advanced drawing tools
- Great for logos & illustrations
- 100% 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

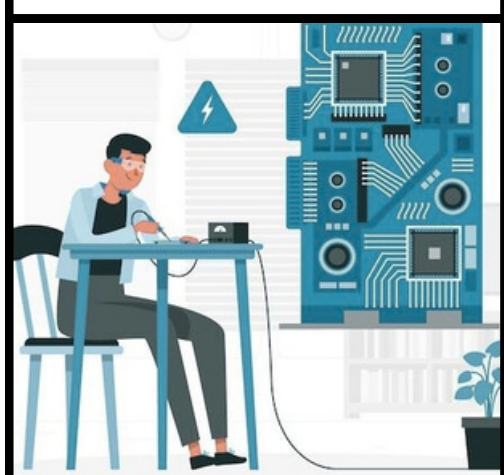
In a major step toward sustainable infrastructure, Noida International Airport has adopted **Limestone Calcined Clay Cement (LC3)** — a low-carbon alternative that emits nearly 40% less CO<sub>2</sub> and costs 25% less than traditional cement. The project sets a new benchmark for eco-friendly construction 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. **Focus First**  
Begin with one clear problem and build a simple, valuable customer solution.
- 2. **Validate Early**  
Test your MVP, gather quick feedback, and improve before growing bigger
- 3. **Scale Smart**  
Once it works small, expand gradually with focus, control, and sustainability.

## Startup of the Week



## WAKEFIT

- Wakefit's IPO signals its ambition to scale operations and invest in state-of-the-art manufacturing facilities.
- The company has established a robust presence in India's home furniture and mattress market with a growing consumer base.
- Raising fresh capital through the IPO positions Wakefit for aggressive growth in an increasingly competitive landscape.

## NEWS

### UPDATE



#### Wakefit IPO Launches December 8, 2025

Wakefit, a major player in the home furniture and mattress segment, is set to open its IPO on December 8, 2025. The company aims to raise Rs 377.1 crore through a fresh issue, marking a significant milestone as it plans to expand its manufacturing capabilities and market reach.

[READ MORE](#)



# Beyond Books

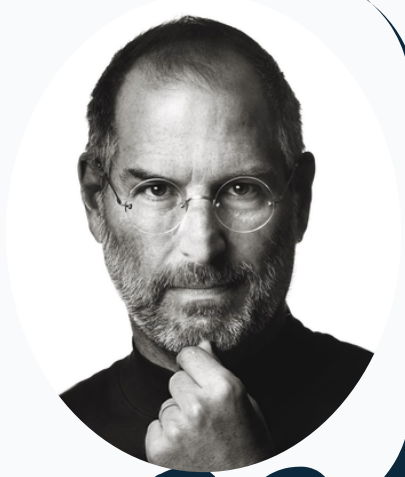
## Reid Hoffman

“If you are not embarrassed by the first version of your product, you’ve launched too late.”

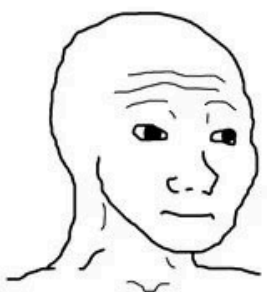


## Steve Jobs

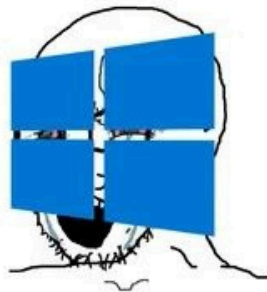
“Stay hungry. Stay foolish.”



## Tech Giggles



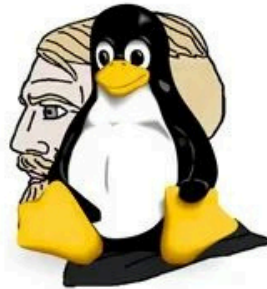
hey can i uninstall edge



NOOO!!! YOUR SYSTEM WILL BREAK



im going to uninstall the bootloader



go ahead lol



Copy & paste  
using mouse



Ctrl + C  
&  
Ctrl + V



Ctrl + C C C C C  
&  
Ctrl + V



# English Vocabulary Boost

## SPEAK SMART (Real-life Phrases)

### Starting a Presentation

❌ I'll speak about this topic.

✅ Today, I'm excited to share some insights on this topic.

### Asking for Time

❌ Wait.

✅ Could you give me a moment to think about that?

## WORD WISE (Vocab Boost)

### Smart

Advanced: Intelligent / Sharp

Meaning: Quick to learn and understand.

Example: He's a sharp thinker and a fast learner.

### Scared

Advanced: Frightened / Terrified

Meaning: Feeling fear or anxiety.

Example: She was terrified by the loud noise.

## SYNONYMS & ANTONYMS

### Brave

Synonyms: Bold, Courageous, Fearless

Antonyms: Cowardly, Afraid, Timid

### Easy

Synonyms: Simple, Effortless, Straightforward

Antonyms: Difficult, Complicated, Hard

## GRAMMAR GYAN

### Too / Very

Too: More than enough (negative).

Example: It's too hot to go outside.

Very: Emphasizes degree (neutral).

Example: It's very hot today.



# 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*

