



## CORE CONNECT

WEEKLY

# NEWSLETTER

8 December, 2025

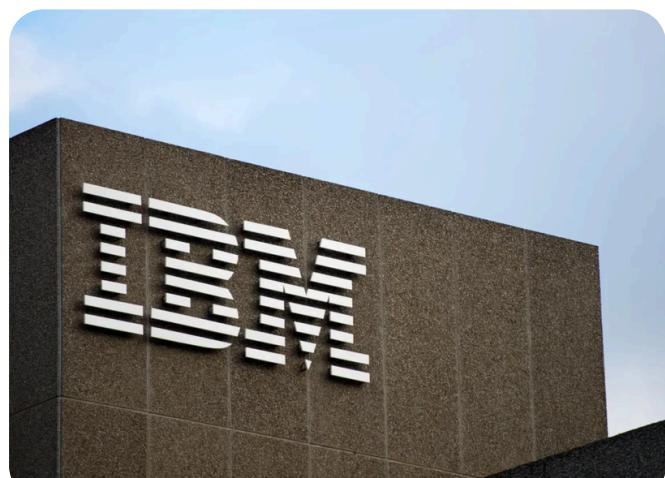
ISSUE: 14

# 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.



- **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.

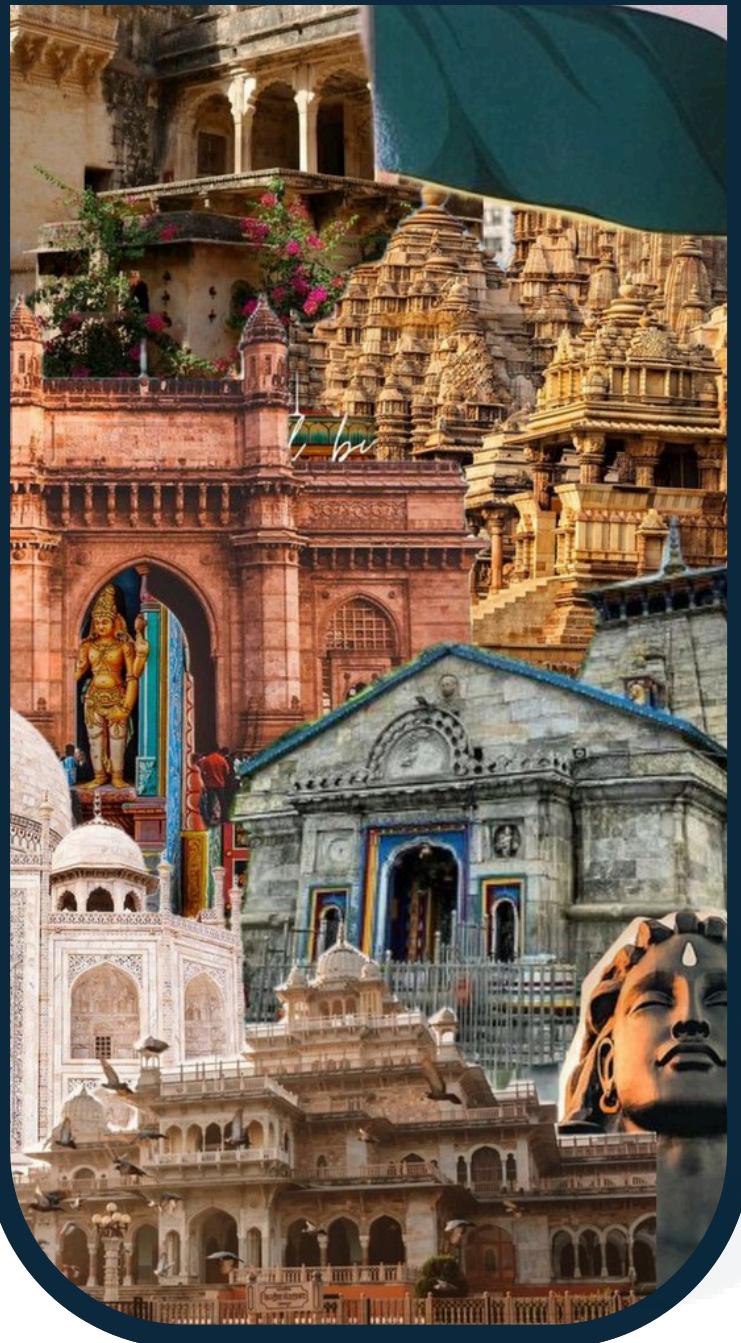


- **IBM to acquire Confluent in \$11 billion AI data deal:** IBM agreed to buy real-time data streaming company Confluent for about \$11 billion, strengthening its hybrid cloud and AI platforms with Kafka-based streaming infrastructure.

- **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.

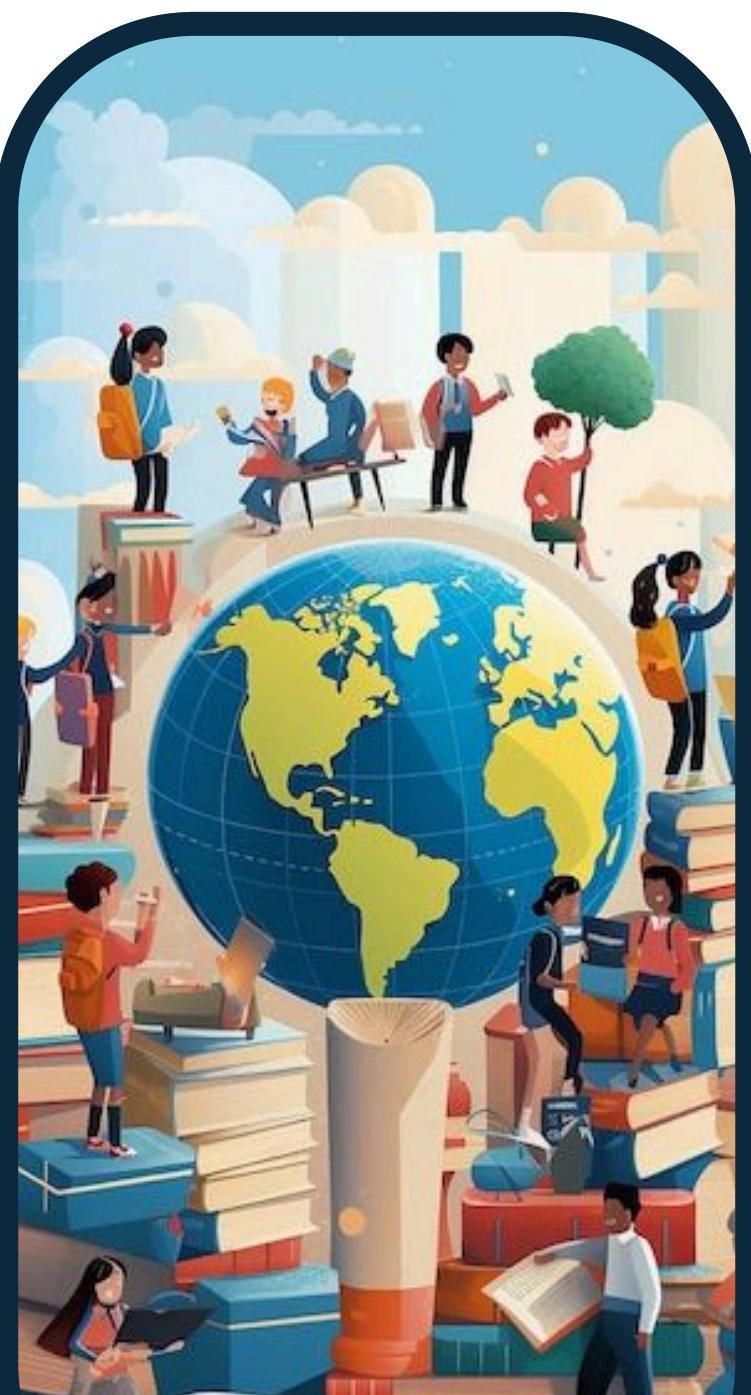
- **India Shines at ISSF**

Simranpreet Brar won 25m pistol gold, Aishwary Tomar 50m rifle silver, and Suruchi Singh 10m 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 25 bps to 5.25%, aiming to boost liquidity, reduce borrowing costs, and support growth.

## RBI Injects Bank Liquidity

RBI plans to inject ₹1.5 lakh 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



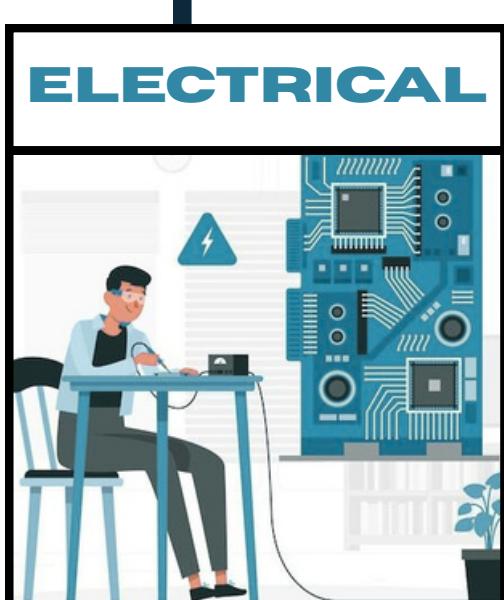
## VVDN Technologies Unveils Mechanical Innovation Park in Gurugram

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.



## 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

### 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



#### 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

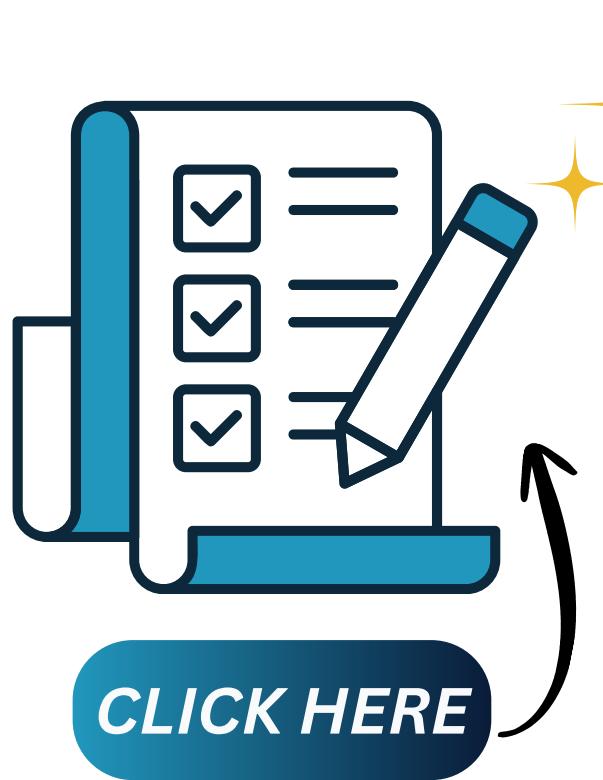
## GRAMMAR GYAN

### 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*

