

**GYAN
GANGA**



**CORE
CONNECT**

W E E K L Y

NEWSLETTER

3 November 2025

ISSUE: 9

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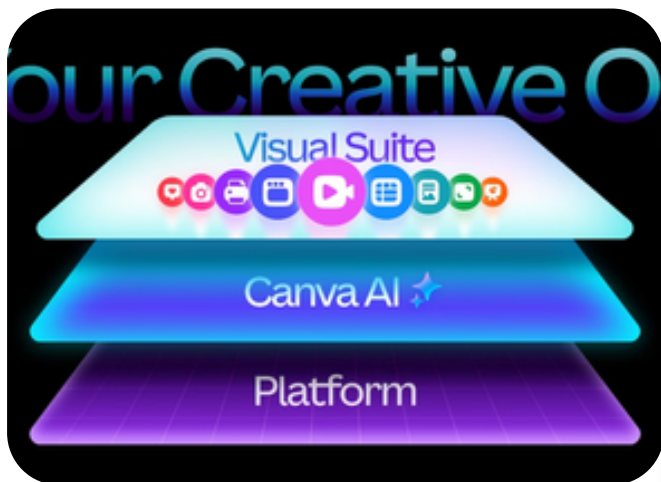
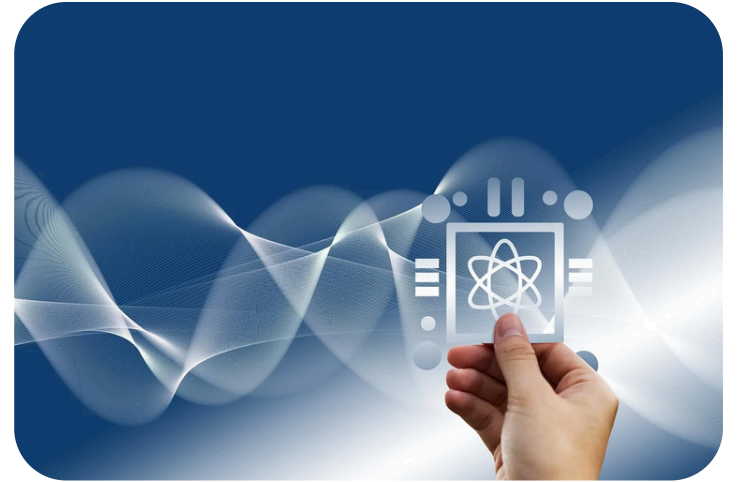
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Tech Trends

- **China Launches First Commercial Neutral-Atom Quantum Computer:** China unveiled “Hanyuan No. 1,” its first commercial neutral-atom quantum computer, featuring 100 qubits and room-temperature operation. Built using a local supply chain, it already serves enterprise clients in finance, logistics, and research.

[Read more](#)

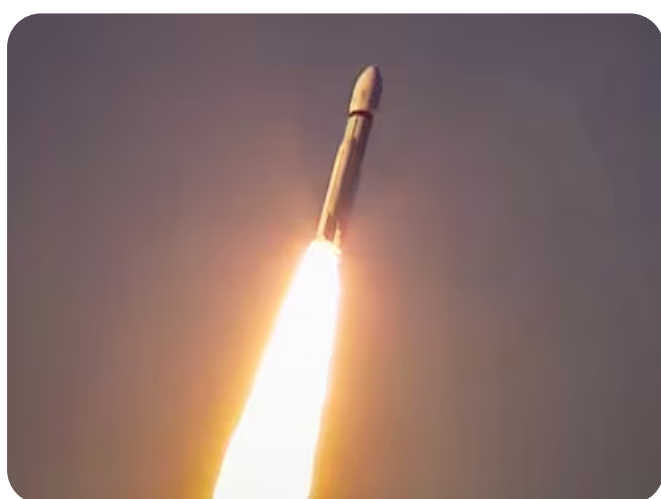


- **Heading: Canva Launches Creative Operating System with Groundbreaking Design AI:** Canva has unveiled its Creative Operating System, integrating world-first design AI, advanced collaboration, brand management, and a rebuilt Visual Suite—empowering 260 million users to create, manage, and grow brands more efficiently.

[Read more](#)

- **PM Modi Inaugurates Emerging Science and Technology Innovation Conclave 2025:** PM Modi launched the ₹1 lakh crore RDI Scheme at ESTIC 2025, aiming to boost private sector-led research, expand Atal Tinkering Labs, and strengthen India’s innovation ecosystem across AI, quantum tech, and semiconductors.

[Read more](#)



- **ISRO’s ‘Bahubali’ Rocket Launches India’s Heaviest Satellite from Home Soil:** ISRO’s LVM3-M5 ‘Bahubali’ rocket successfully placed the 4,410 kg CMS-03 communication satellite into orbit, marking India’s heaviest satellite launch from its soil; PM Modi hailed this landmark achievement.

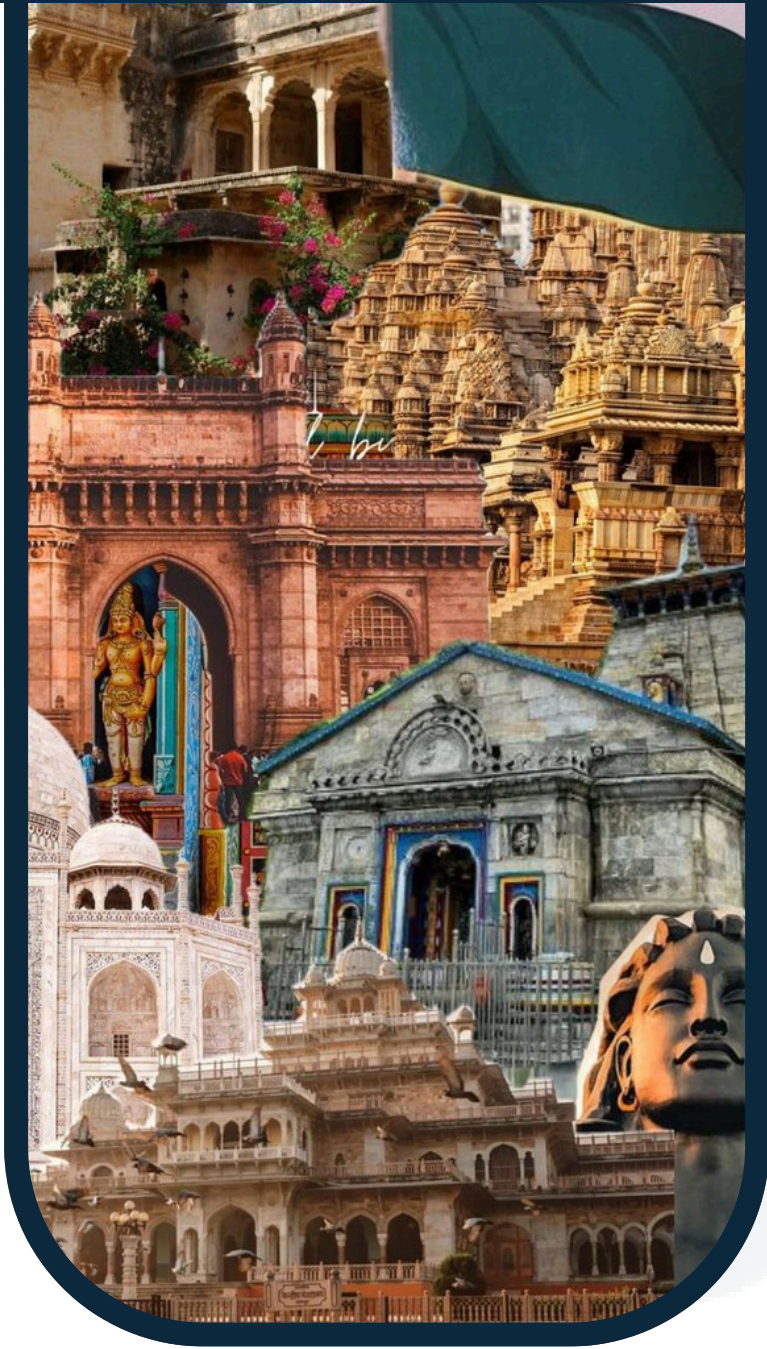
[Read more](#)

- **X-59 Test Flight, Quantum Complexity, and Proof Universe Isn’t Simulated:** NASA’s X-59 supersonic plane completed its first test flight; researchers revealed a quantum problem unsolvable in practical time, and a new mathematical proof asserts our universe fundamentally cannot be a simulation.

[Read more](#)



World Wrap



- **Exercise Trishul Begins Nationwide**

India's Army, Navy, and Air Force launched Exercise Trishul to boost joint combat readiness and strengthen multi-domain defence coordination.

- **Centre Approves Procurement Plan**

Government approved ₹15,095 crore procurement of pulses and oilseeds for Kharif 2025-26 to support farmers and stabilise crop prices.

- **ISRO Successfully Launches CMS-03**

ISRO's LVM3-M5 rocket successfully placed the 4,400 kg CMS-03 communication satellite in orbit, enhancing India's telecom and connectivity capabilities.

- **India Wins the ICC Women's Cricket World Cup 2025**

India won their first-ever Women's ODI World Cup at DY Patil Stadium, beating South Africa by 52 runs, led by Shafali Verma's 87 and Deepti Sharma's 5/39.

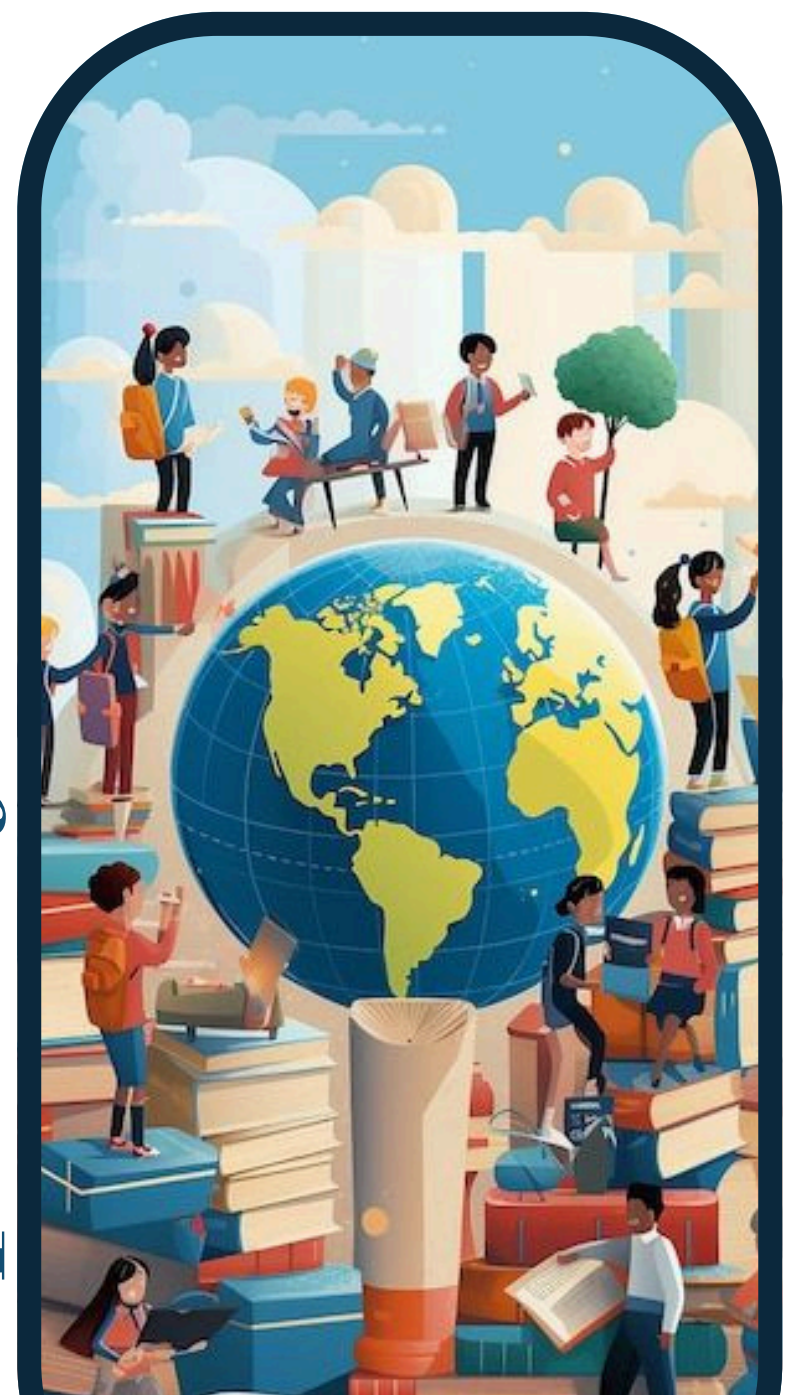
- **Lando Norris Wins the Mexico City Grand Prix, Takes F1 Championship Lead**

Lando Norris won the Mexico City Grand Prix, leading from start to finish, overtaking Oscar Piastri by one point to lead the 2025 F1 championship.

- **Lucknow designated as a "Creative City of Gastronomy" by UNESCO**

On 31 October 2025, UNESCO named Lucknow a Creative City of Gastronomy, honoring its rich culinary heritage and global recognition as a leading food destination.

Sports & Culture



World Wrap

Germany's Business Confidence Rises, Signalling Economic Stabilisation

Germany's Ifo business-climate index rose to 88.4 in October, indicating improving confidence and early signs of recovery in Europe's largest economy amid global challenges.

India's Economic Growth Forecast Raised to 6.7 Percent

A Reuters poll projected India's economy to expand 6.7% this fiscal year, supported by robust first-quarter growth, rising consumer demand, and improving market confidence.

APEC Summit Highlights Global Trade and Cooperation Goals

At the APEC summit in Gyeongju, 21 member economies adopted a joint declaration promoting trade, investment, and collaboration to strengthen growth amid global challenges.

Business & Economy



WHO Advocates Urban Health Overhaul

WHO urges city leaders to transform urban areas into hubs of health, equity, and sustainability, emphasizing strategic action for resilient societies.

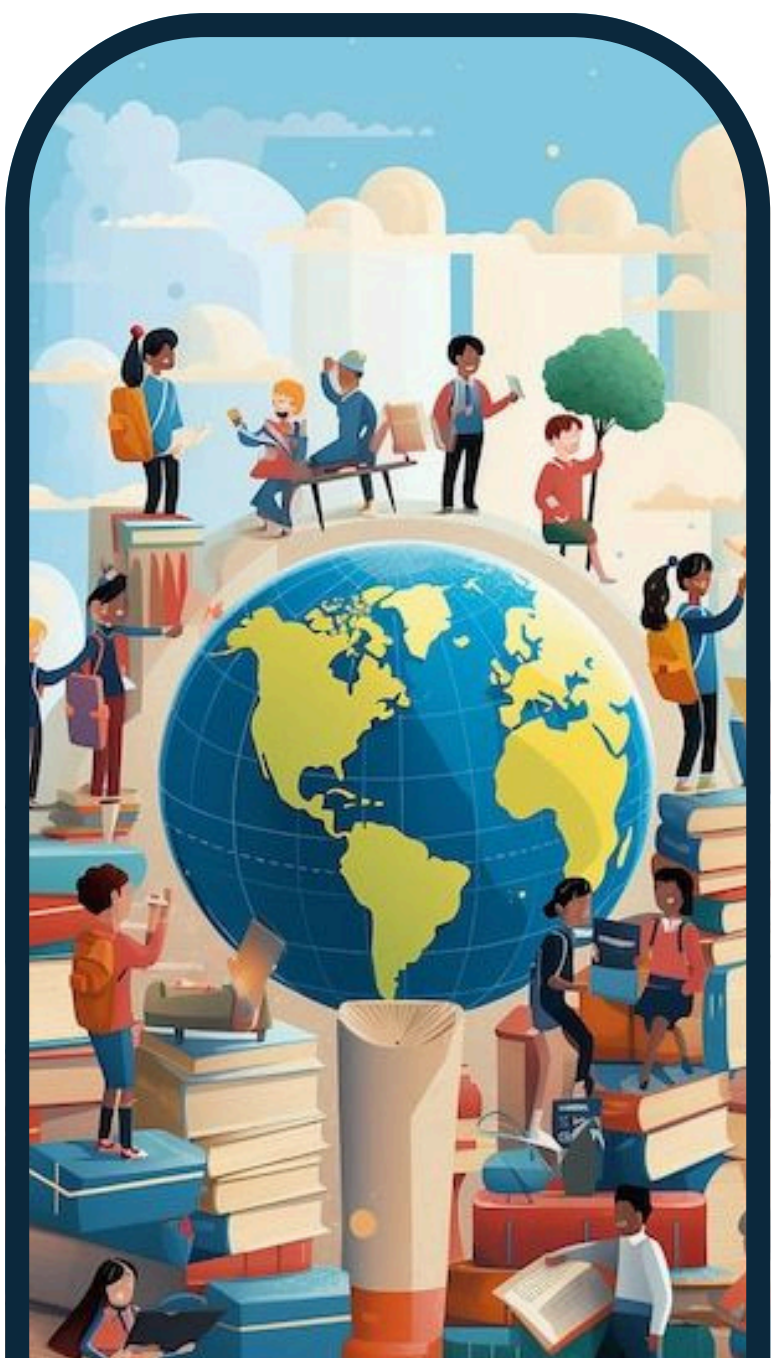
Sudan Massacre Exposed via Satellite

Satellite images reveal over 2,000 civilians killed in ElFasher, Darfur, after RSF captured the city, highlighting ethnic-targeted violence and humanitarian crisis.

Global Tech Firms Slash Jobs

Over 100,000 employees laid off worldwide as major tech companies restructure amid slower growth and transition toward AI and cloud technologies.

Global & Tech



CODING TIPS & CHALLENGES

Tips

Learn Basic Algorithms

Sorting, searching, recursion — they're the foundation of everything.

Understand Data Structures

Choosing the right structure saves time and space.

Avoid Premature Optimization

Speed comes after correctness.

Use Logs Smartly

Logs tell stories your program can't.

Don't Ignore Warnings

They're often early signs of bigger issues.

CHALLENGES

Challenge 13: Even or Odd (Basic)

Check whether a given number is even or odd.

Challenge 14: Find Minimum Element (Intermediate)

Find the smallest element in a list manually.

Challenge 15: Count Word Frequency (Advanced)

Count how many times each word appears in a sentence or paragraph.

OPEN SOURCE SPOTLIGHT



LibreOffice
The Document Foundation

LibreOffice – Free, Powerful Office Suite

LibreOffice is a free alternative to Microsoft Office, offering Writer, Calc, Impress, and more. It's a must-have for students who need to create documents, spreadsheets, and presentations without costly subscriptions.

Key Features:

- Word processor, spreadsheets, & presentations
- Compatible with MS Office files
- Works offline
- 100% 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

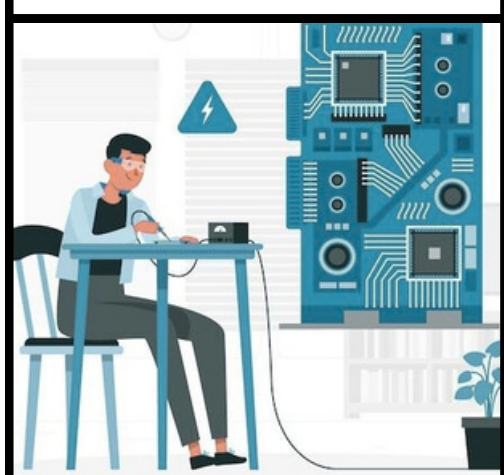
In a major step toward sustainable infrastructure, Noida International Airport has adopted **Limestone Calcined Clay Cement (LC3)** — a low-carbon alternative that emits nearly 40% less CO₂ and costs 25% less than traditional cement. The project sets a new benchmark for eco-friendly construction and 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. **Validate your business model early.**
- 2. **Keep user onboarding frictionless.**
- 3. **Celebrate small wins with your team.**

NEWS

UPDATE



Vercel hits \$9.3B valuation after \$300M funding round

AI coding startup Vercel, creator of Next.js, has raised \$300 million in Series F, bringing its valuation to \$9.3 billion. This funding underscores investor confidence in AI-powered developer tools and highlights how AI is reshaping the web-development ecosystem worldwide.

[READ MORE](#)

Startup of the Week

 **DualEntry**

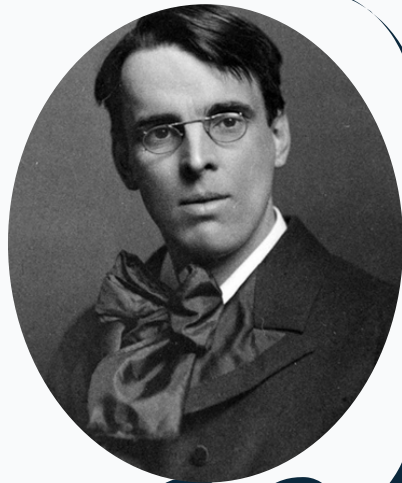
DUAL ENTRY

- DualEntry is an AI-powered ERP startup that helps businesses automate financial workflows and migrate legacy data — all within 24 hours.
- Raised \$90 million Series A, valuing it at \$415 million.
- DualEntry is disrupting the traditional ERP market (like SAP & Oracle) with faster, simpler, and smarter AI-driven tools, proving that even legacy industries can be modernized through innovation.

Beyond Books

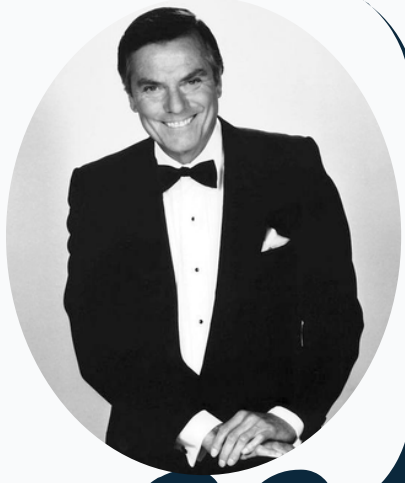
William Butler Yeats

"Do not wait to strike till the iron is hot, but make it hot by striking."

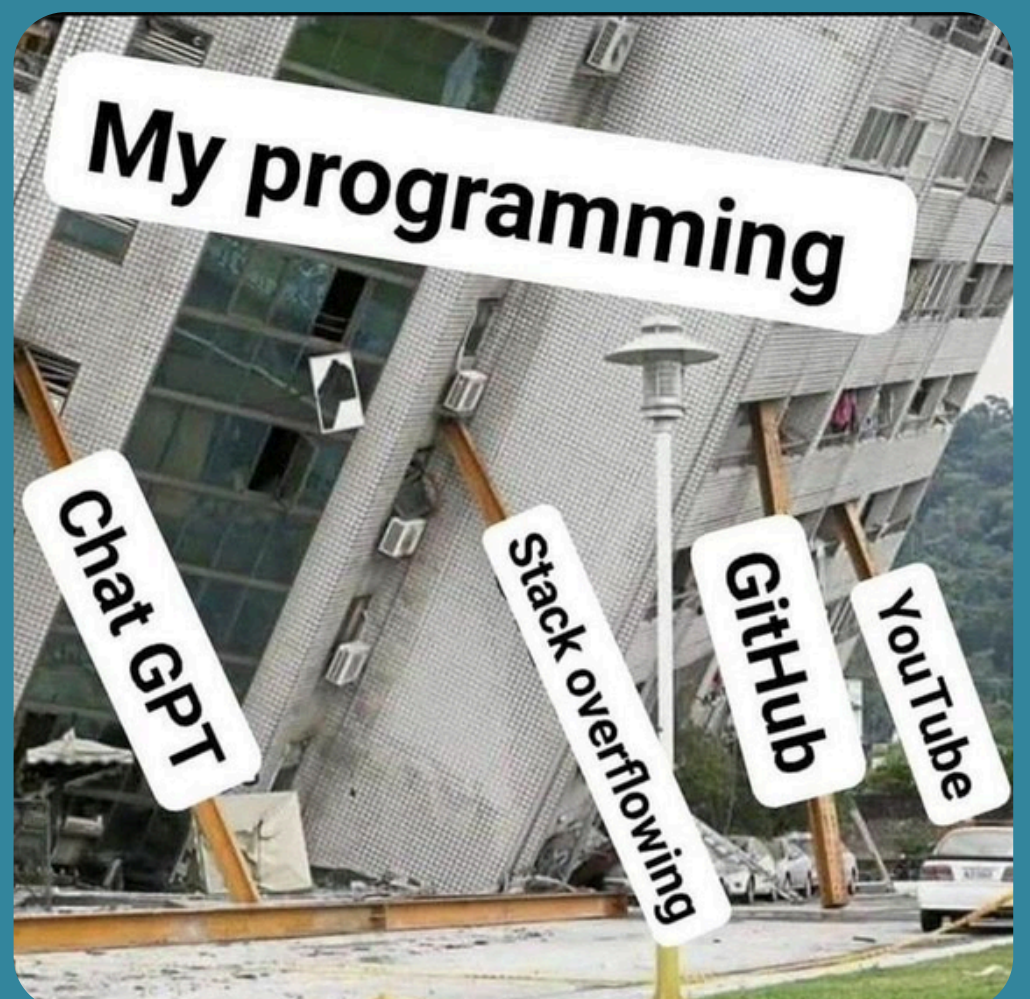
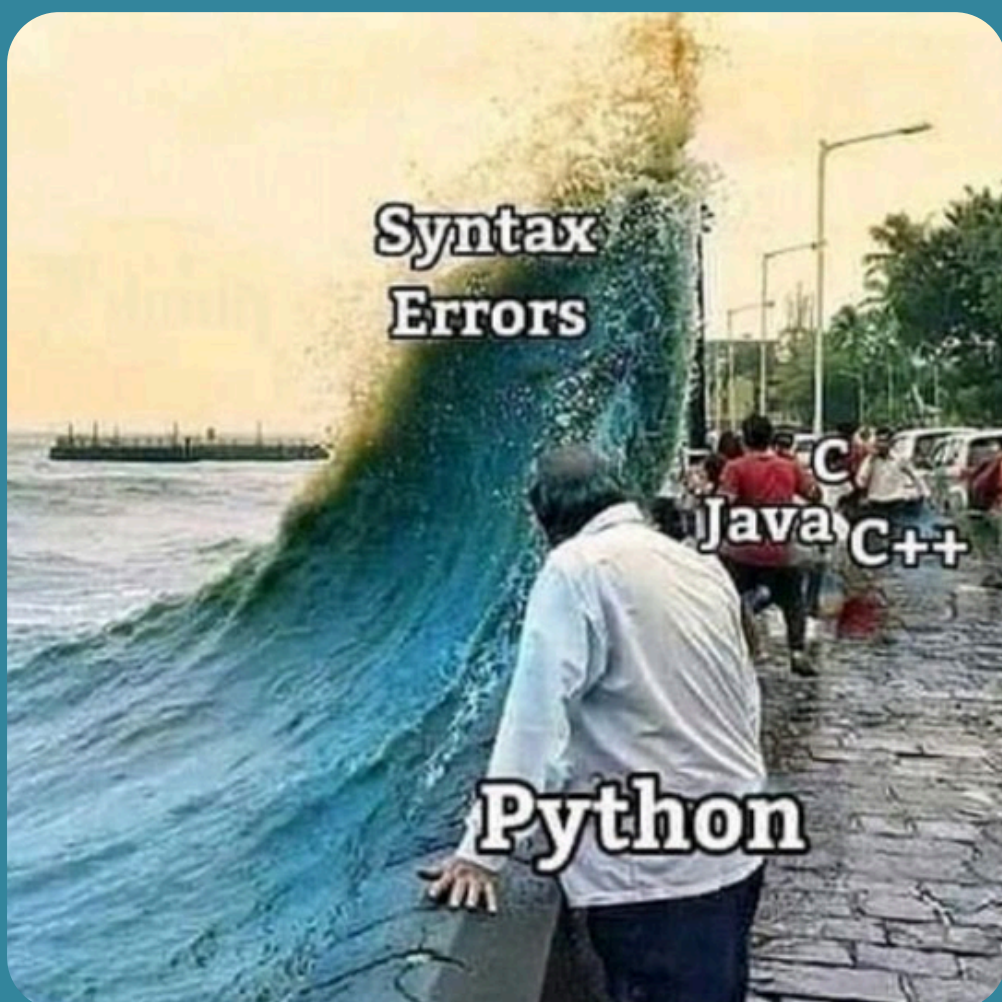


Peter Marshall

"Small deeds done are better than great deeds planned."



Tech Giggles



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*

