GYAN GANGA

CORE CONNECT

WEEKLY

NEWSLETTER

10 November, 2025

ISSUE: 10

Tech Trends

- **Anthropic Revolutionizes MCP Agents with Code-First Execution, Slashing AI Token Costs:** Anthropic's new "code execution with MCP" approach turns MCP tools into code APIs, enabling agents to run workflows in a sandboxed environment, reducing token usage by 98.7% and dramatically improving scalability, privacy, and efficiency

  Read more


MCP is Revolutionizing Multi-Agent Collaboration!

- **Alexandr Wang to Lead Meta's AI Push with $14 Billion Scale AI Deal:** Scale AI founder Alexandr Wang, 28, has been appointed to head Meta Superintelligence Labs under a $14.3 billion deal, unifying Meta's AI efforts to accelerate its pursuit of advanced general-purpose superintelligent systems.

  Read more

- **Aditya-L1, IIA, and NASA Record Historic CME Data in Visible Wavelength:** For the first time, Aditya-L1, in collaboration with IIA and NASA, recorded spectroscopic observations of a coronal mass ejection (CME) in the Sun's corona using visible wavelength instruments.

  Read more
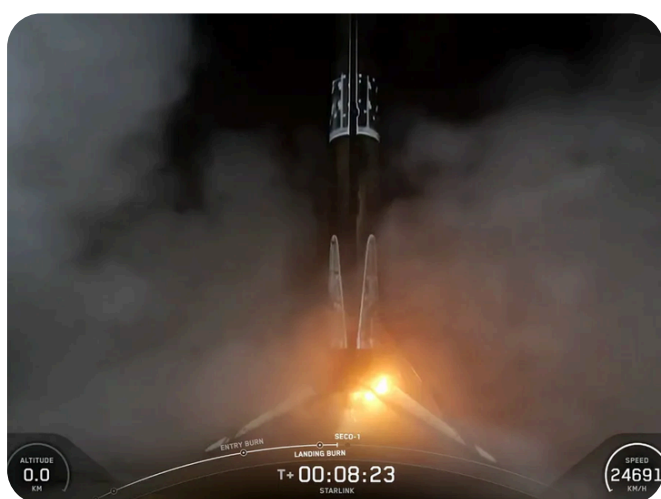
- **SpaceX Launches 29 More Starlink Satellites on Falcon 9's 28th Flight:** SpaceX's Falcon 9 successfully launched 29 Starlink satellites from Kennedy Space Center, marking the booster's 28th mission and expanding the Starlink mega-constellation to over 8,800 operational satellites in orbit.

  Read more

- **Weather Delays Blue Origin's New Glenn Launch of NASA's ESCAPADE Mars Probes:** Blue Origin postponed the launch of its New Glenn rocket carrying NASA's twin ESCAPADE Mars orbiters from Cape Canaveral due to bad weather; the rescheduled launch is now set for November 12, 2025.
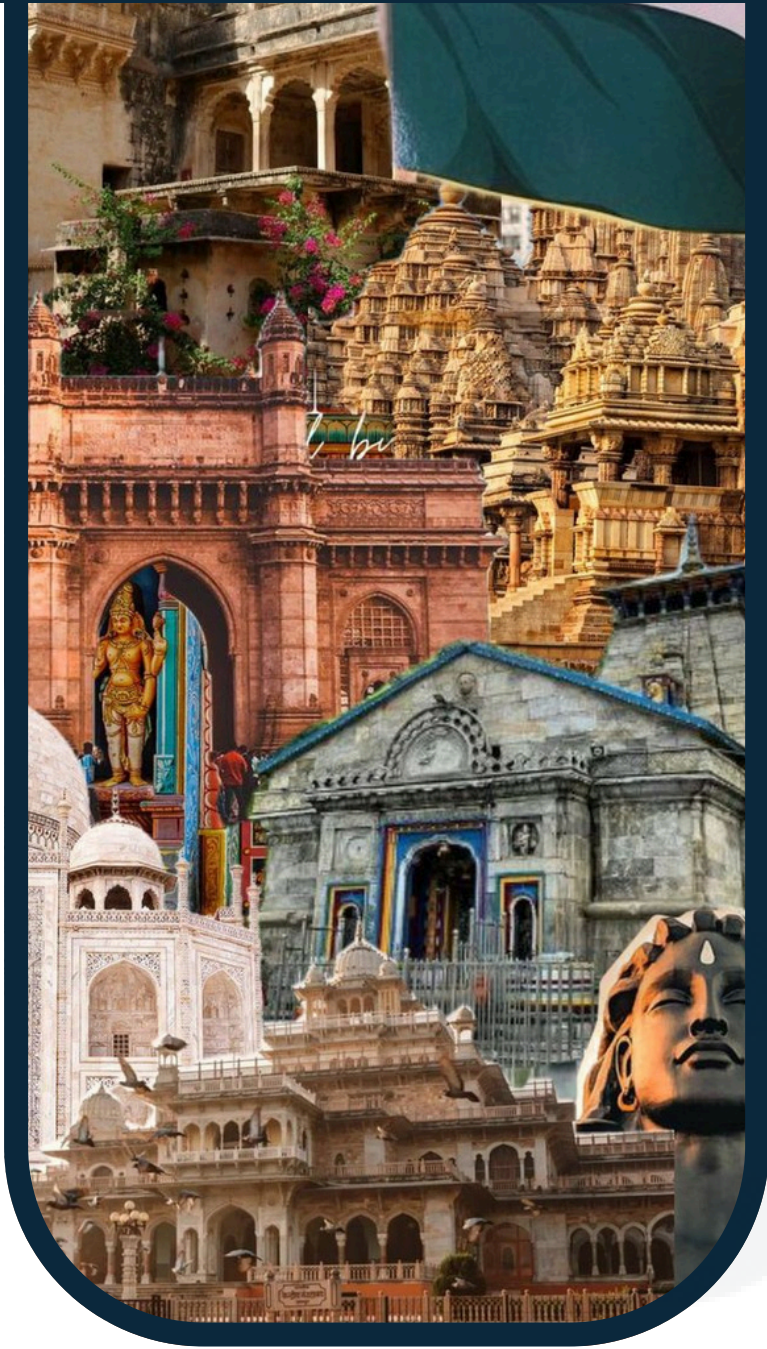
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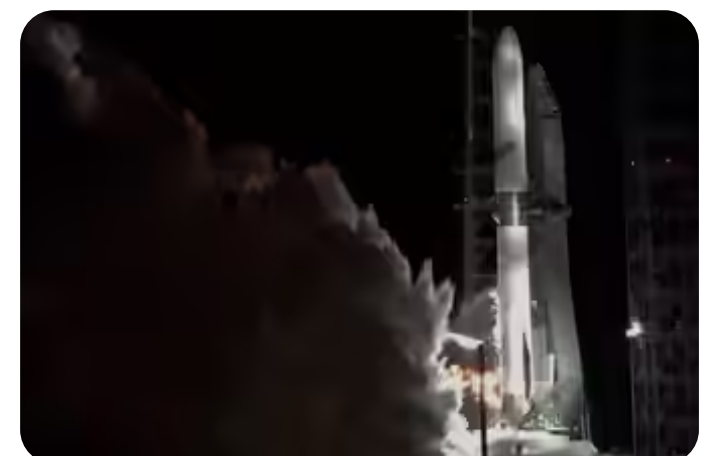
World Wrap

INDIA

- **Karnataka's Progressive Leave Reform**
Karnataka introduced 12 paid menstrual leaves yearly for women across sectors, advancing gender equality and prioritizing women's health at work.

- **Delhi Air Pollution Protests**
Severe smog in Delhi triggered public protests demanding urgent government action, stricter pollution control, and sustainable environmental policies.

- **Parliament Winter Session Announced**
The Winter Session of Parliament will be held from December 1 to 19 to discuss key national legislative and policy issues.

Sports & Culture

- **Akash Choudhary Fastest Fifty**
Meghalaya's Akash Kumar Choudhary smashed the fastest first-class fifty in just 11 balls, hitting eight consecutive sixes, setting a world record.
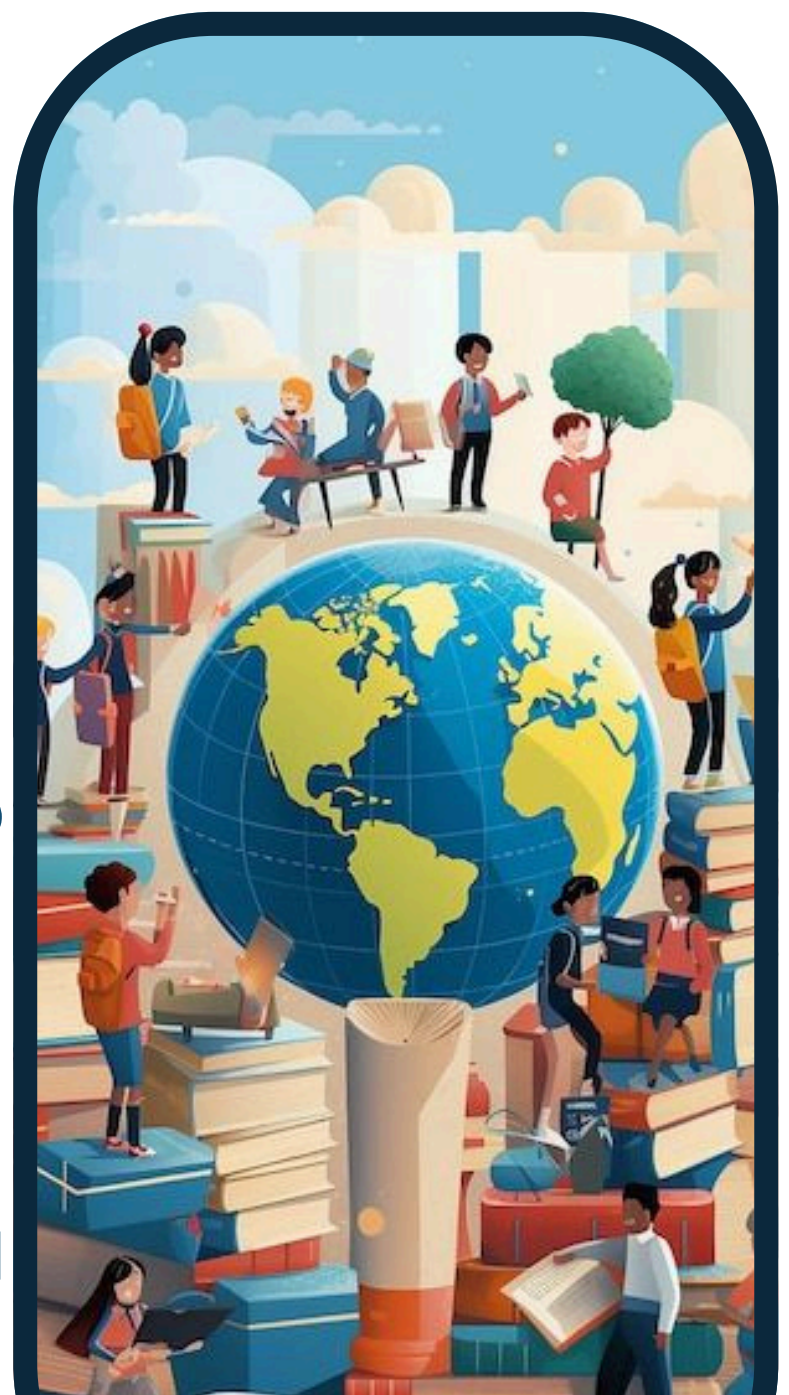
- **India's Record Youth Games**
At the 2025 Asian Youth Games in Manama, India achieved a best-ever tally: 48 medals (13 gold, 18 silver, 17 bronze)

- **150 Years of Vande Mataram**
India celebrates 150 years of "Vande Mataram," written by Bankimchandra Chatterji on Akshaya Navami, first featured in Anandamath.

World Wrap

Business & Economy

India–US Trade Deal Near

Negotiations on a bilateral India–US trade pact may see a breakthrough by November-end, boosting investment and manufacturing growth.

India's Bioeconomy Soars $300B

NITI Aayog projects India's bioeconomy reaching $300 billion by 2030, fueled by biotech, bio-manufacturing, agriculture, and innovative sustainability initiatives.

Food Subsidy Raised ₹2.1L Cr

Finance Ministry adds ₹7,000 crore for FCI, increasing FY26 food subsidy to ₹2.1 lakh crore amid rising costs.

Global & Tech

COP30 Climate Summit

Belém hosts COP30, linking climate action with economic policy, focusing on forest protection, fossil fuel phase-out, and green investments.

China Exports Decline

China's exports fell unexpectedly in October, indicating weak global demand and adding pressure on international trade and economic growth. .

Tech Sell-Off Hits Markets

Nasdaq suffers worst week since April as high yields and AI/tech uncertainty trigger a global tech-led market sell-off.

CODING TIPS & CHALLENGES

Tips

Embrace Documentation
Write docs like you'd write code — clearly and consistently.

Learn Your IDE Shortcuts
Small time-savers add up quickly.

Back Up Everything
Disasters happen. Be prepared.

Keep Dependencies Updated
Outdated libraries are security risks.

Follow DRY Principle
Don't Repeat Yourself. Reuse logic smartly.

CHALLENGES

Challenge 13: Factorial (Basic)
Calculate factorial of a number without recursion.

Challenge 14: Sort Array without sort() (Intermediate)
Implement your own sorting logic (Bubble Sort / Selection Sort).

Challenge 15: Find Duplicate Elements (Advanced)
Find duplicates in an array without using sets or libraries.

OPEN SOURCE SPOTLIGHT

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
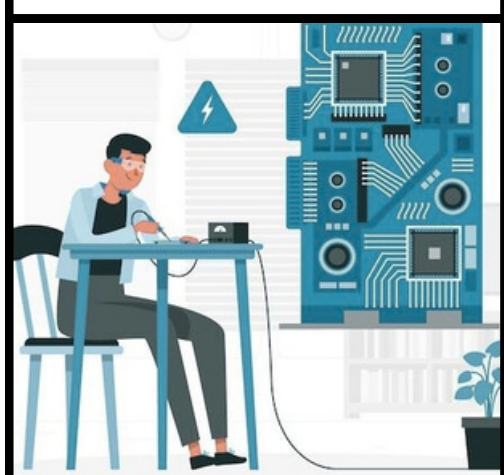
In a major step toward sustainable infrastructure, Noida International Airport has adopted **Limestone Calcined Clay Cement (LC3)** — a low-carbon alternative that emits nearly 40% less CO_2 and costs 25% less than traditional cement. The project sets a new benchmark for eco-friendly construction and 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

SRIJAN
THE STARTUP & INNOVATION CLUB

STARTUP TIP

1. Measure learning, not just revenue.

2. Build for habit, not hype.

3. Stay adaptable — markets shift fast.

Startup of the Week

DualEntry

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

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

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.
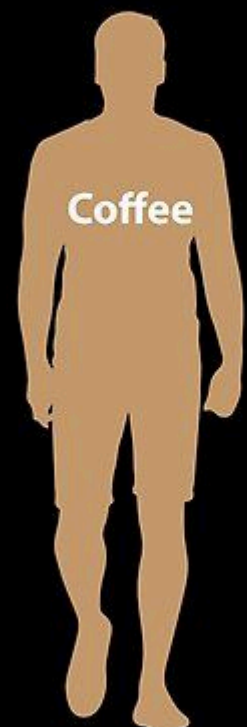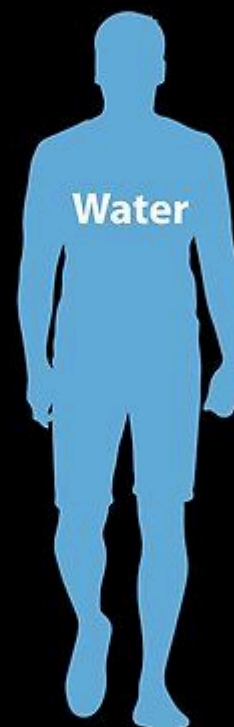
Read more

Tech Giggles

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

CLICK HERE

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