

**GYAN
GANGA**



**CORE
CONNECT**

WEEKLY

NEWSLETTER

27 October, 2025

ISSUE: 8

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Tech Trends

- **13-Year-Old Iniya Pragathi Becomes World's Youngest Analogue Astronaut:** Chennai's 13-year-old Iniya Pragathi has become the world's youngest analogue astronaut after completing global isolation missions, inspiring youth with her Mars dream, NASA training plans, and advocacy for girls in STEM fields.

[Read more](#)



- **ISRO Nears Completion of Gaganyaan Mission, Crewed Launch Set for 2027:** ISRO announced 90% completion of its Gaganyaan human spaceflight mission. Key milestones include successful parachute deceleration tests and upcoming uncrewed flights, with the first crewed mission targeted for early 2027 featuring humanoid Vyommitra.

[Read more](#)

- **Cyber Experts Urge Legal Adaptation to AI's Rapid Growth:** At the Cyber Vidhi Sangam Conclave 2025 in Bengaluru, experts emphasized updating cyber laws to match AI's rapid evolution, highlighting privacy, trust, and safety challenges in India's digital governance.

[Read more](#)



- **Inox Solar Wins ₹7,000 Crore Deal from China's LONGi Green Energy:** Inox Solar secured a ₹7,000 crore contract with China's LONGi to supply 5 GW of solar modules over three years, boosting domestic manufacturing with new plants in Gujarat and Odisha.

[Read more](#)

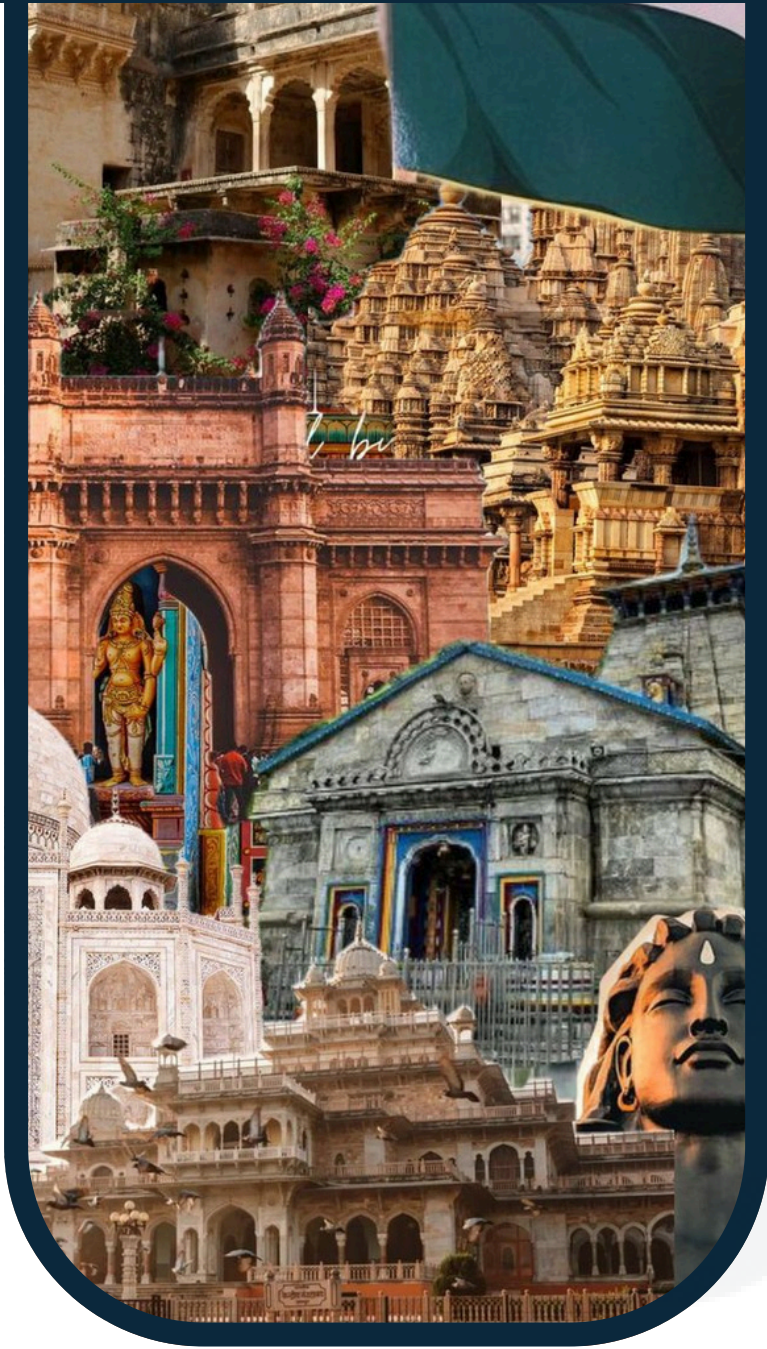
- **Top 5 Countries Leading Global Semiconductor Production in 2025:** WION highlights the five nations dominating semiconductor production in 2025 — Taiwan, the United States, South Korea, Japan, and China — emphasizing their advanced chip fabrication, R&D investment, and strategic role in global supply chains.

[Read more](#)



World Wrap

INDIA



- **2026: ASEAN–India Maritime Year**

India and ASEAN to mark 2026 as Year of Maritime Cooperation, strengthening Indo-Pacific ties, blue economy, and regional security.

- **ECI Issues AI Content Rules**

Election Commission of India directs parties to label AI-generated campaign content, ensuring transparency and preventing misinformation.

- **Red Alert, Exercise Trishul Announced**

IMD issues red alert for Andhra coast as cyclone nears; tri-service “Exercise Trishul” to be held in western sector.

- **Portugal Creates History — Beats USWNT for the First Time**

Portugal Women’s team made history by defeating the U.S. 2–1, with goals from Gomes and Pinto, despite Lavelle’s early strike; coach Hayes called it a wake-up call.

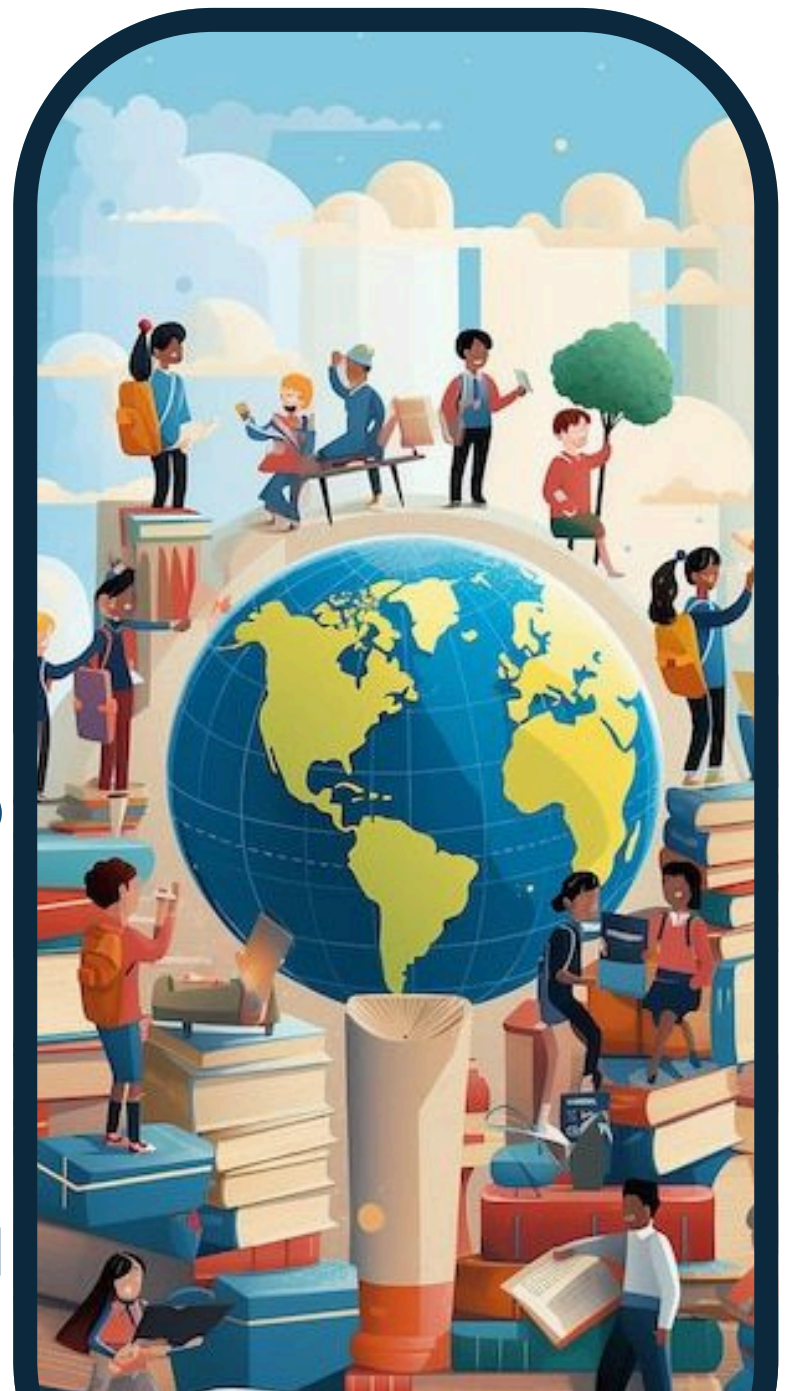
- **USWNT Bounces Back — 3–1 Win Over Portugal**

Three days later, the U.S. women’s team beat Portugal 3–1, with Moultrie scoring twice and Coffey adding one, restoring confidence after their earlier loss.

- **India’s Buddha relics draw massive devotion in Russia**

Russia’s Kalmykia hosted an exhibition of Buddha’s sacred relics from India, attracting over 90,000 visitors and strengthening India-Russia spiritual and cultural relations.

Sports & Culture



World Wrap

IMF Raises India's Growth Forecast to 6.6 Percent

The IMF projects India's economy to grow 6.6% in 2025–26, driven by strong consumption and Q1 performance, despite global trade tensions and U.S. tariff pressures.

RBI Says India's Economy Strong Despite Global Uncertainty

RBI's October 2025 bulletin highlights India's strong and stable fundamentals, easing inflation, and slightly lower FDI inflows due to ongoing global economic uncertainties.

UK Manufacturing Orders Decline as FTSE 100 Hits Record High

The UK's manufacturing orders fell to their weakest since 2020, while the FTSE 100 surged, boosted by rising oil and commodity stocks amid U.S. sanctions on Russia.

Business & Economy



Timor-Leste Joins ASEAN

Timor-Leste becomes ASEAN's 11th member, marking the bloc's first expansion since the 1990s and boosting regional integration.

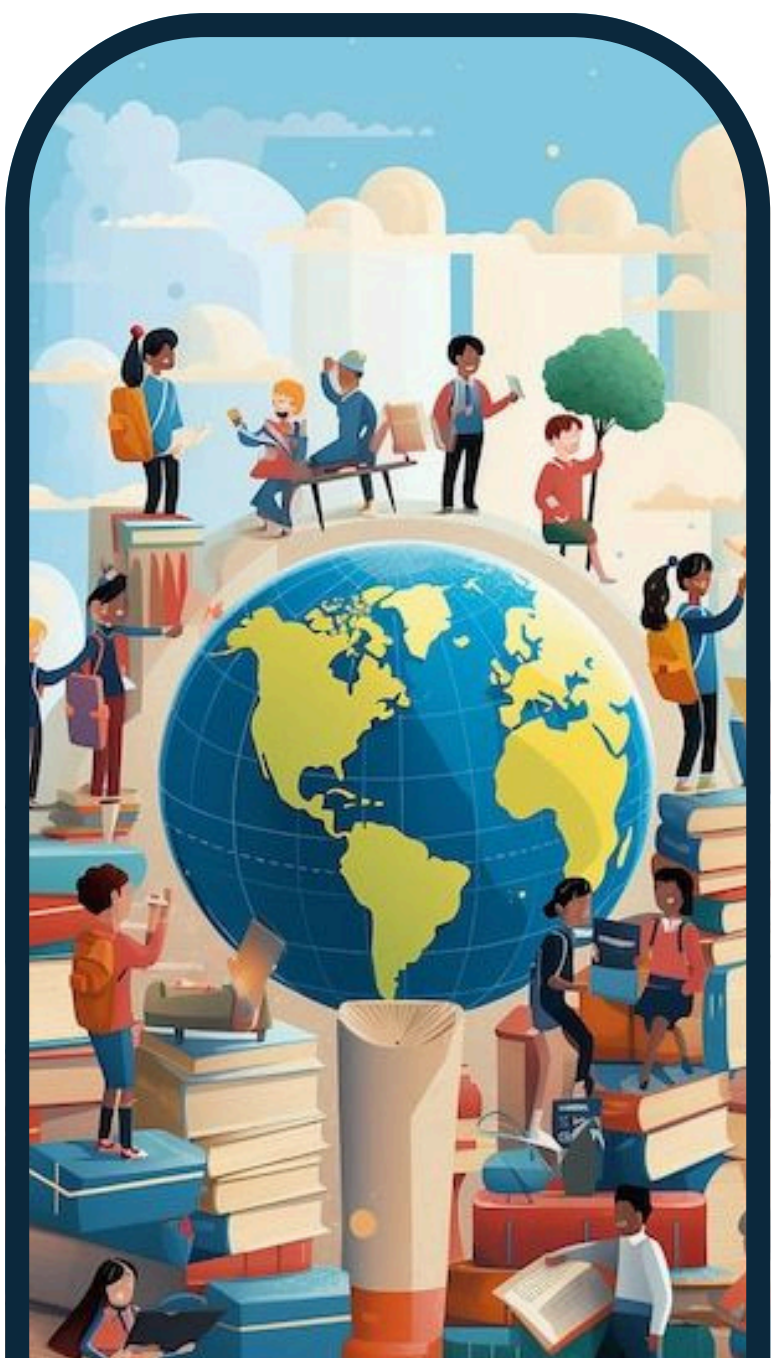
US-China Trade Deal Framework

US and China agree on framework to avert 100% tariffs and ease tensions over rare-earth exports, stabilizing global trade..

India Aims 6G Leadership

India targets global 6G leadership, aiming for 10% of patents by 2030; focus on AI-native networks and terahertz technologies.

Global & Tech



CODING TIPS & CHALLENGES

Tips

Save Often, Commit Often

Frequent commits mean smaller, safer changes.

Use Meaningful Comments

Document decisions, not obvious lines of code.

Test Edge Cases

Good code handles the unexpected gracefully.

Practice Pair Programming

Two minds find better solutions than one.

Keep Your Environment Clean

Use virtual environments or containers to avoid dependency chaos.

CHALLENGES

Challenge 22: Sum of Digits (Basic)

Find the sum of digits of a given number.

Challenge 23: Remove Duplicates (Intermediate)

Remove duplicate elements from a list without using set().

Challenge 24: Matrix Transpose (Advanced)

Compute the transpose of a matrix without using built-in methods.

OPEN SOURCE SPOTLIGHT



Thunderbird – Secure, Customizable Email Client

Thunderbird is a free and open-source email application developed by Mozilla. It helps you manage multiple email accounts, calendars, and contacts in one place. With strong privacy controls and add-on support, it's a perfect choice for students who want a reliable, ad-free mail experience.

Key Features:

- Multi-account email support
- Calendar & tasks
- Add-ons & themes
- 100% free

Check out the solutions for all coding challenges here



ENGINEERING BEYOND CSE



MECHANICAL

Desco Infratech Partners for Hydrogen–Natural Gas Blending Projects

Desco Infratech Ltd has signed a Memorandum of Understanding (MoU) with KPI Green Hydrogen & Ammonia and Naveriya Gas to develop hydrogen–natural gas blending projects across India. The initiative aims to explore the potential of hydrogen as a cleaner alternative fuel by blending it with natural gas, thereby reducing carbon emissions and improving energy efficiency.

Mysuru City Corporation to Establish ₹10-Crore Debris Recycling Plant

At the recent ‘Ideas to Impact’ Grand Demo Day at IIT Madras, several student teams presented innovative mechanical projects focused on sustainable manufacturing. One notable innovation was an automated paper-making machine that converts fallen leaves into eco-friendly sheets, reducing waste and dependence on wood pulp.



CIVIL

ELECTRICAL



IIT Madras Students Develop Eco-Friendly Manufacturing Solutions at ‘Ideas to Impact’

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.

STARTUP & INNOVATION ZONE



STARTUP TIP

- Prioritize user experience over features.
- Learn to say “no” to distractions.
- Hire slow, build fast.

Startup of the Week



ZAPIER

- Zapier connects 6,000+ apps to automate workflows without code.
- Bootstrapped to \$5B valuation.
- Saves companies 10+ hours weekly through automation.
- Powering productivity for 2M+ users.

NEWS

UPDATE



Anthropic to Open First India Office in 2026

AI startup Anthropic, backed by Amazon and Google, has announced plans to open its first India office in Bengaluru by early 2026. The expansion marks India as Anthropic's second-largest global market for its AI assistant, Claude.

[READ MORE](#)

Beyond Books

Roy T. Bennett

Don't be pushed around by the fears in your mind. Be led by the dreams in your heart.



[Read more](#)

Sam Levenson

Don't watch the clock; do what it does. Keep going."



[Read more](#)

Tech Giggles

How to Use a Laptop to Feel Great!



Programming Tutorial

Some Indian guy



BEGINNER

English Vocabulary Boost

SPEAK SMART (Real-life Phrases)

Showing Encouragement

❌ You can do it.

✅ I believe in your potential,
you've got this!

Appreciating Effort

❌ Nice try.

✅ That was a great effort;
you're improving every day!

WORD WISE (Vocab Boost)

Lazy

Advanced: Idle / Indolent

Meaning: Avoiding work or activity.

Example: Don't be indolent; take initiative.

Honest

Advanced: Sincere / Truthful

Meaning: Always telling the truth.

Example: I appreciate her sincere
feedback.

SYNONYMS & ANTONYMS

Happy

Synonyms: Joyful, Cheerful, Content

Antonyms: Sad, Depressed, Gloomy

Rich

Synonyms: Wealthy, Affluent, Prosperous

Antonyms: Poor, Needy, Destitute

GRAMMAR GYAN

Since / For

Since: Refers to a specific starting point.

Example: I've lived here since 2019.

For: Refers to a duration of time.

Example: I've been waiting for two hours.

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*

