

# THE DAILY GK DOSE

## NVIDIA CEO CONFERRED 2026 IEEE MEDAL

- **Pioneering Accelerated Computing:** Huang was recognized for his "visionary leadership" and life-long work in developing accelerated computing, which has moved beyond standard processing to become the foundation for modern AI, robotics, and high-performance computing.
- **The \$2 Million Prize:** For the second consecutive year, the prestigious award includes a USD 2 million cash prize, a significant monetary component that highlights the global importance of engineering and its impact on the modern economy.

**Footnotes:** NVIDIA's CEO: Jensen Huang, HQ: California, Estd: 1993

## WORLD'S LARGEST ELECTRIFIED RAIL SYSTEM: INDIA

- **99.2% Electrification Milestone:** By January 2026, India has electrified over 69,427 route kilometers (RKM) of its nearly 70,000 RKM broad-gauge network. This puts the country on the verge of its "Mission 100% Electrification" goal, with 25 states and Union Territories already fully electrified.
- **Unprecedented Pace of Work:** Electrification accelerated dramatically, rising from 1.4 km/day (2004–2014) to over 15 km/day (2019–2025), equaling Germany's entire rail network in just six years.
- **Green Energy & Economic Impact:** The shift advances India's 2030 Net Zero goal,

cutting billions of liters of diesel, reducing emissions by 89% versus road transport, and adding nearly 900 MW of solar across 2,600+ stations.

## SCIENTISTS OF RRI DEVELOPS RDSNS



- **Non-Invasive "Quantum Listening":** RDSNS is a novel method to measure the density of "cold atoms" (atoms cooled near absolute zero) without disturbing their delicate quantum state. Unlike traditional methods that can destroy or heat the atoms, this technique uses laser beams to "listen" to the natural quantum fluctuations of the atoms.
- **Massive Signal Amplification:** The Raman Research Institute team enhanced spin noise spectroscopy using coherent Raman lasers, boosting weak quantum signals nearly a millionfold and enabling ultra-precise measurements in volumes as small as 0.01 cubic m.
- **Real-Time Quantum Sensing:** The method opens a new way to observe the quantum world in real time and could revolutionize quantum computing, ultra-precise atomic clocks, and portable magnetometers for medical imaging and mineral exploration.

## IMPORTANT FACTS

### AUTHORS 2025

- **Godaan:** Munshi Premchand
- **India Wins Freedom:** Maulana Abul Kalam Azad
- **The Discovery of India:** Jawaharlal Nehru
- **Train to Pakistan:** Khushwant Singh
- **Unarmed Truth:** Satyarth Nayak
- **Ignited Minds:** A. P. J. Abdul Kalam
- **Panchatantra:** Vishnu Sharma

## UK POLICE RANKS 1ST IN ICJS

- **National Leadership in Digital Policing:** Uttarakhand secured the first position in the country with a score of 93.46, narrowly leading ahead of Haryana (93.41) and Assam (93.16). This ranking reflects the state's superior efficiency in integrating technological modules across its districts.
- **Early Adoption of "One Data, One Entry":** The state was honored for swiftly implementing ICJS 2.0, integrating Police, Courts, Prosecution, Prisons, and Forensics, and enabling seamless digital exchange of case records and evidence well ahead of the 2026 deadline.
- **Advancing Smart Justice:** Under DGP Deepam Seth, the force is advancing Smart Policing through tools like e-Sakshya, e-Summons, and Nyaya Shruti to ensure faster, transparent, and time-bound investigations.

## USMAN KHAWAJA ANNOUNCES RETIREMENT FROM CRICKET

- **A Full Circle Farewell:** Khawaja played his 88th and final Test match at the Sydney Cricket Ground (SCG), the same venue where he made his debut against England in 2011. Fittingly, his final appearance ended in a victory as Australia clinched the Ashes series 4–1.
- **Breaking Barriers:** As the first Pakistan-born and first Muslim to play for Australia, Khawaja leaves a historic legacy, highlighting his journey overcoming racial stereotypes and aiming to inspire future generations from diverse backgrounds.
- **A "Content" Career of Resilience:** Khawaja retired with over 6,200 Test runs and 16 centuries at an average of 43.39. His career was defined by a remarkable late-career resurgence, which included winning the ICC Test Cricketer of the Year in 2023.

342, with Carey and Green's unbeaten stand rescuing them from a middle-order collapse.

- **Mitchell Starc's Record Campaign:** Fast bowler Mitchell Starc was named Player of the Series after a historic performance, taking 31 wickets at an average of 19.93. He became the first Australian pacer since Mitchell Johnson in 2013–14 to take more than 30 wickets in an Ashes series.
- **Emotional Milestones:** The Test marked Usman Khawaja's historic farewell after his 88th match, while Steve Smith broke Sir Don Bradman's record for most runs by an Australian against England, crossing 5,028 runs.

## A.K. BALA SUBRAHMANIAN APPOINTED AS AERB CHAIRMAN



- **Strategic Three-Year Tenure:** Appointed by the Appointments Committee of the Cabinet (ACC), Balasubrahmanian assumed the role on January 1, 2026, for a period of three years. He

succeeds Dr. D.K. Shukla, who completed his term on December 31, 2025.

- **Focus on Indigenous Safety:** His career is defined by pioneering first-of-a-kind nuclear systems with indigenous safety features, and in his new role he will guide **Atomic Energy Regulatory Board** through a key expansion as India opens its nuclear sector to private players and renewable integration.

**Footnotes:** AERB's Previous CEO: Dinesh Kumar Shukla, HQ: Mumbai, Estd: 1983

## FORMER UNION MINISTER KABINDRA PURKAYASTHA PASSED AWAY

- **The "Patriarch" of Northeast BJP:** Known as the architect of the BJP in Assam, Purkayastha was a founding member of the party in 1980. He is credited with single-handedly building the party's grassroots foundation in the Barak Valley and the wider Northeast, a region where the party initially had little presence.
- **Cabinet Role under Vajpayee:** A three-time Member of Parliament from the Silchar constituency (1991, 1998, and 2009), he served as the Union Minister of State for Communications in the Atal Bihari Vajpayee government between 1998 and 1999.

## AUSTRALIA CLINCHES ASHES SERIES

- **SCG Victory and Series Scoreline:** Australia won the final Test at the SCG by five wickets, chasing 160 on Day 5 after bowling England out for

## WHAT HAPPENED TODAY?

09.01-2026 / FRIDAY

- **2007: iPhone unveiled → tech revolution.**
- **2005: Sudan Civil War ends → pathway to South Sudan.**
- **1992: First exoplanets discovered**