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MAGAZINE NOTES

Yojana April 2026 - Futuristic Science & Tech

1 April 2026

SCIENCE & TECH

SECURITY & DEFENCE

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GS3

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**Yojana**

Govt. of India · Monthly

EDITION

April 2026

MAINS:

GS Paper 2

GS Paper 3

Yojana's April 2026 issue, themed **"Futuristic Science & Tech"**, maps India's technology frontier: AI as the next layer of Digital Public Infrastructure, the cybersecurity architecture protecting it, the private space and deep-tech ecosystem, disaster resilience, and the green technologies carrying India's energy transition. The lead article is "Scientific Temper: Our Long Romance with Reason" by Dr. T V Venkateswaran, with the focus article "AI at Population Scale: India's Blueprint for the World" by Abhishek Singh.

ARTICLES IN THIS ISSUE

- 1 **AI at Population Scale** - AI repositioned as citizen-centric DPI; IndiaAI Mission's three layers (subsidised GPU compute, AIKosh, applications); India AI Impact Summit 2026 and the New Delhi Declaration
- 2 **Cyber Security and Digital Trust** - the six-layer security architecture, BRAIN convergence threats, CERT-In's 6-hour reporting rule, and lessons from AIIMS Delhi to SolarWinds
- 3 **India's Space and Deep-Tech Ecosystem** - USD 8 billion space economy targeting USD 44 billion by 2033; IN-SPACE, Skyroot, Agnikul; National Quantum Mission
- 4 **From Relief to Resilience** - disaster risk reduction, the Aswal Model, Cyclone Phailin's lesson, CDRI's global footprint
- 5 **Green Technologies for India's Sustainable Future** - 50 percent non-fossil capacity reached ahead of the 2030 NDC; SHANTI Act 2025, Green Hydrogen Mission, storage build-out

KEY CONCEPTS

TERM	MEANING
AIKosh	IndiaAI Mission's national repository: 10,000+ datasets, 286 AI models
DPI	Digital Public Infrastructure; shared rails like Aadhaar, UPI, now AI
New Delhi Declaration	Outcome of India AI Impact Summit 2026, endorsed by 90+ countries
BRAIN convergence	Biotech, Robotics, AI, Nanotech merging into one threat and opportunity surface
Zero Trust Architecture	Security model that verifies every access request, trusts nothing by default
IN-SPACE	Regulator-promoter for private space sector participation
Aswal Model	Four-stage DRR cycle: risk knowledge, decision support, implementation, learning
SHANTI Act 2025	Amends the Atomic Energy Act 1962; opens nuclear power to up to 49 percent FDI
CCTS	Carbon Credit Trading Scheme 2023; India's domestic carbon market

UPSC GS RELEVANCE

- **GS3 (dominant):** S&T applications, internal security (cyber), environment and energy transition, disaster management
- **GS2:** AI and data governance (DPDP Act 2023), institutional frameworks (CERT-In, I4C, NCIIPC)
- **Essay:** technology and society, scientific temper (Article 51A(h) linkage)

3 Chapters in this Edition

1

AI at Population Scale: India's Blueprint for the World

2

Cyber Security and Digital Trust

3

Green Technologies for India's Sustainable Future



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