

GOVERNMENT OF INDIA
MINISTRY OF ELECTRONICS AND INFORMATION TECHNOLOGY
RAJYA SABHA
UNSTARRED QUESTION NO. 3247
TO BE ANSWERED ON: 20.03.2026

STATUS OF INDIA'S AI ECOSYSTEM

3247. SHRI PARIMAL NATHWANI:

Will the Minister of ELECTRONICS AND INFORMATION TECHNOLOGY be pleased to state:

- (a) the current status of India's Artificial Intelligence (AI) ecosystem across the five layers, viz. application, model, chip, infrastructure and energy;
- (b) the major AI applications deployed by Government and industry in sectors such as health, agriculture, education, governance and defence;
- (c) whether India possesses indigenous large scale AI models and the extent of dependence on foreign models and platforms; and
- (d) the status of domestic capabilities in AI chips, compute infrastructure, data centres and availability of reliable and affordable energy to support AI growth?

ANSWER

MINISTER OF STATE FOR ELECTRONICS AND INFORMATION TECHNOLOGY
(SHRI JITIN PRASADA)

(a) to (d): The Government is developing the Artificial Intelligence (AI) ecosystem in the country, covering key layers, viz., applications, AI models, compute, infrastructure, and energy. IndiaAI Mission was launched in March 2024 to build a robust and inclusive AI ecosystem by focusing on the development of applications, foundational models, datasets, compute infrastructure, innovation support and talent development.

Application layer

The Government is promoting widespread adoption of AI across sectors such as agriculture, healthcare and education. These solutions are already delivering impact, including AI-based sowing advisories and early disease detection.

The IndiaAI Mission is also supporting the development of 30 India-specific AI applications to accelerate large-scale AI adoption and deliver real-world benefits to citizens. Details in Annexure - 1.

Sector-focused hackathons and innovation challenges with multiple Ministries have also led to the identification of 10 startups for scaling up solutions.

Model layer

Under this layer, Government is supporting the development of indigenous foundational AI models, with 12 organisations/consortia selected in the first phase. Alongside this, smaller and specialised models are also being developed to drive practical applications.

Models developed by Sarvam AI, BharatGen and Gnani were launched during the IndiaAI Impact Summit 2026. These models have shown strong performance on Indic language benchmarks and, in some cases, perform better than leading frontier models on specific tasks.

E.g. models developed by Sarvam AI have demonstrated relatively high accuracy in document understanding and Indic language processing.

Compute layer

Compute is required for training and inference, powered by advanced processors such as GPUs, TPUs and other server-grade chips.

Under the IndiaAI Mission, researchers, startups and academia are getting access to over 38,000 GPUs. These are offered at a subsidised average rate of ₹65 per hour, which is about one-third of the global average cost.

Under the Semicon India Programme, ten semiconductor projects have been approved, including two fabrication units and eight ATMP facilities. These facilities will ultimately strengthen India's chip development capacity and support future AI infra needs.

Infrastructure layer

Government is developing the data centre and digital infrastructure ecosystem required to support large-scale AI deployment. Union Budget 2026-27 announced granting a tax holiday till 2047 to companies providing cloud services globally by using data centres from India.

AI Impact Summit 2026 also witnessed announcements of investment commitments exceeding USD 250 Billion across the AI value chain comprising of infrastructure, foundation models, hardware, and applications.

Energy layer

Data centres and AI infrastructure require significant and reliable power supply. The Government is working to ensure the availability of sustainable and reliable energy to support this growing demand.

The government recognises nuclear energy as an important source of clean and round-the-clock power for energy-intensive digital infrastructure. In this regard, Sustainable Harnessing and Advancement of Nuclear Energy for Transforming India (SHANTI) Act has been enacted to strengthen the nuclear energy ecosystem.

This will enable the development of reliable power solutions for emerging sectors such as AI and data centres, including the future deployment of small modular and micro nuclear reactors.

Semicon India Programme

The Government approved the Semicon India programme as a pan-India programme for the development of a semiconductor & display manufacturing ecosystem. The focus is on developing a complete ecosystem, ranging from talent pool, design, fabrication, assembly, testing, packing, and module manufacturing.

Achievements:

- In a short span of three years, it has seen an investment commitment of about Rs 1.6 Lakh Cr.
- 10 units have been approved, including 2 fabs and 8 ATMPs/OSATs and construction work is going on rapidly
- Commercial production in one unit and Pilot production in 3 units has already started
- These projects are expected to produce more than 24 Bn chips /annum from packaging facilities and 55000 wafer starts per month (WSPM) from fabrication facilities
- 24 projects approved for the design of semiconductor chips and SoCs, with a total project value of Rs. 900 crore, including investments in design infrastructure
 - o These projects address critical sectors such as video surveillance, drone detection, energy metering, microprocessors, satellite communications, and broadband and IoT SoCs
 - o Out of 24 projects, 14 companies have raised venture capital funding to scale up and productise their solutions
 - o ₹650 crore raised in VC funding by Indian semiconductor startups
 - o 7 chips have been successfully fabricated out of 16 designs taped out across multiple foundries, including advanced nodes such as 12 nm at TSMC
- 105 fabless chip design companies have been supported with access to advanced chip design infrastructure, cumulatively consuming 60 lakh hours of tool usage
- 315 universities are getting access to advanced EDA tools for the students. So far, the usage of these tools has exceeded 185 lakh hours
- 146 designs taped out by 49 institutions across India out of which SCL has successfully fabricated and packaged 94 student-designed chips

Building on the success of the Semicon India Programme, the Union Budget 2026-27 announced that the India Semiconductor Mission 2.0 will be launched to produce equipment and materials, design full-stack Indian IP and fortify supply chains.

Annexure-I

The details of shortlisted AI solution under IndiaAI Application Development Initiative are as under:

Sl. No.	Name of the Solution	Solution Description	Theme
1	Promoting regenerative agriculture practices for a sustainable future using AI	In-house developed MRV (Measurement, Reporting, and Verification) technology designed to ensure the integrity and quality of generated carbon credits.	Agriculture
2	Krishi Sah‘AI’yak - Farming Co-pilot	AI-powered conversational co-pilot to provide personalized advisory to farmers in Indic languages	Agriculture
3	Kadalcompass - We Amplify the voice of water using Hydro-AI,Underwater com,IoUT with Sensor Network	5G-enabled device that transforms fishing practices using AI, IoUT, and advanced communication technologies	Agriculture
4	KissanCopilot Multilingual Multimodal personalized AI Assistant for small holder farmers	Powered by Dhenu's vertical LLM for agriculture, provides personalized agricultural advisory services to smallholder farmers.	Agriculture
5	Rapid, chemical-free soil testing solution using NIR Spectroscopy & AI/ML models	End-to-end soil testing approach leverages an offline app, AI-powered spectral device, and ML models to deliver timely, chemical-free soil analysis.	Agriculture
6	AI deep-tech driven quality assessment of Maize	SAAS platform to provide objective quality assessment of maize including price estimation & sales pipelining.	Agriculture
7	AI-Driven Live Fish Logistics and Mortality Reduction in Aquaculture	AI-driven solution that optimizes aquaculture operations	Agriculture
8	QScan	AI-powered IoT solution that captures critical data throughout the fresh produce lifecycle, providing real-time analysis of food quality and actionable insights to sellers.	Agriculture
9	Heatwave Resilience: Integrating AI-based Advanced Forecasting for Extreme Heat Events	Integrates AI-based climate forecasting with health data to develop a targeted risk classification system for heat-health impacts	Climate
10	Multi-Hazard Susceptibility Mapping	hazard management system to predict Landslides, Debris Flows and Flash Floods	Climate

11	DeepFlood: Rapid flood inundation mapping using Vision Transformers and Satellite Data	Advanced flood inundation mapping tool using SAR data and deep learning models for real-time, automated flood detection	Climate
12	Moskeet: Climate impact on mosquito-borne diseases	AI-powered platform integrates real-time climate data with mosquito tracking to predict and prevent disease outbreaks.	Climate
13	End to End AI Cloud Platform for Radiology Diagnosis	AI cloud platform for radiology diagnosis, integrating innovative technologies such as CV, GenAI, NLP, Dicom, mobile, and cloud computing	Healthcare
14	NIDAAN (iNtegrated lung health screening & tuberculosis Detection through Ai At National scale)	qXR, an advanced AI tool for interpreting chest X-rays (CXR), detects & localizes 30+ findings.	Healthcare
15	Impactful AI solution, preventing preventable blindness, for socio-economic transformation.	early detection of vision threatening retinal abnormalities	Healthcare
16	AI Powered Wearable Technology for Detection & Diagnosis of Musculoskeletal Joint Health Pain.	AI Enabled Hardware Platform for Joint Pain Diagnostics and Rehabilitation Segments of Healthcare	Healthcare
17	VoxelBox	Neuro-informatics platform that allows to map the functional maps / connectomics of the human brain	Healthcare
18	Development of Ocellux: An AI-Based Solution for Enhanced Early Diabetic Eye Screening in INDIA.	Portable, affordable and highly accessible retina imaging device powered by AI for early detection of eye diseases like Diabetic Retinopathy, AMD & Glaucoma	Healthcare
19	Revolutionizing healthcare using doctor-led AI	AI-powered personal doctor available 24x7 and free of cost, designed to assist people when they are sick, monitor their health through wearables, and act as a health coach to prevent diseases.	Healthcare
20	AI/ML enabled MafPro device platform for cancer staging, localization, and margins.	MafPro handheld detector provides a radiation-free, non-invasive, safe and cost-effective solution that can reliably detect and adequately evaluate metastases	Healthcare

		in lymph nodes using AI/ML based algorithms	
21	Readabled (Online Dyslexia Training)	web-based application designed to help children with dyslexia improve phonetic awareness through interactive exercises.	Learning disabilities
22	Voice fusion AI	AI application to provide assistive support to individuals with SLDs in multiple Indian languages	Learning disabilities
23	ScreenPlay - a digital game based screening tool for autism and related disorders.	Digital, game-based screening tool designed to identify children aged 3 to 6 who may be at risk for autism or related developmental conditions	Learning disabilities
24	Jiveesha	AI-powered diagnostic platform for early detection of SLDs	Learning disabilities
25	Adaptive Learning and Detection for SLDs	Advanced AI techniques to detect Specific Learning Disabilities (SLDs) such as dyslexia, dysgraphia, and dyscalculia.	Learning disabilities
26	Special Educator AI	AI-driven system designed to address India's shortage of special educators and support children with SLDs.	Learning disabilities
27	ConvoZen.AI by NoBroker Technologies	AI-powered conversational platform that automates customer engagement across channels like chat, voice, email, and social media, offering fast, personalized, and multilingual support.	Governance
28	AI contact center	AI-powered technologies like machine translation, NLP, ASR and TTS, and multilingual voice recognition to enhance governance by improving communication and accessibility across India's linguistic diversity	Governance
29	Adalat AI: AI solutions for Courts	AI-powered platform provides real-time multilingual transcription, translation, live case flow management, and WhatsApp chatbots to streamline courtroom operations	Governance
30	Gov.Civis.Vote	AI-powered Digital Public Infrastructure designed to transform public consultations in India by making citizen	Governance

		engagement more inclusive, scalable, and comprehensive	
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