GOVERNMENT OF INDIA
MINISTRY OF ELECTRONICS AND INFORMATION TECHNOLOGY
RAJYA SABHA
UNSTARRED QUESTION NO. 3906
TO BE ANSWERED ON: 04.04.2025

INTEGRATIONOFAIINTOSCHEMESAND GOVERNMENTMANAGEMENTSERVICES

3906.# SHRISANJAY SINGH:

Will the Minister of ELECTRONICS AND INFORMATION TECHNOLOGY be pleased to state:
(a) thedetailsofthecurrentprogressandachievementsofallexistingArtificialIntelligence (AI) related schemes of the Government such as National Artificial Intelligence Mission, AI for All, and other initiatives;
(b) the roadmap that Government has prepared for integrating AI into Government managementservices(suchasdigitisation,administrativeprocesses,servicedelivery,etc.) and the areas where the said integration is being prioritised; and
(c) whether Government has issued guidelines related to ethical, privacy and data security standards of AI and the steps being taken to ensure their implementation?

ANSWER

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

(a) to (c):The Government of India emphasizes the concept of 'AI for All,' aligning with the Hon'blePrime Minister's vision to democratize the use of technology. This initiative aims to ensure that AIbenefits all sectors of society, driving innovation and growth.

Government is committed to harness the power of Artificial Intelligence (AI) for the good of our people in various sectors while remaining cognizant of its associated risks.

AI is already being leveraged by various central and state government departments and organizations in diverse domains, including Railways, Governance & Administration, Earth Science, Energy & Power, Rural Development & Panchayati Raj, Transportation, and Law & Justice, to drive innovation and improve public services.

The government's approach focuses on leveraging AI for economic growth and development while fostering a robust AI ecosystem. In this regard, Union Cabinet led by Hon'ble Prime Minister has approved the IndiaAI Mission on 7th March 2024, a strategic initiative to establish a robust and inclusive AI ecosystem that aligns with the country's development goals. This mission is driven by a vision to position India as a global leader in artificial intelligence by focusing on seven foundational pillars.

- **IndiaAI Compute Capacity**: The IndiaAI compute pillar envisions building a high-end scalable AI computing ecosystem comprising AI compute infrastructure of 10,000 or more Graphics Processing Units (GPUs). Under this initiative, an invitation for application for the empanelment of AI services on the cloud was published on August 16th, 2024. 19 bidders had submitted a proposal offering AI services, including GPUs and AI platforms for developing AI solutions, out of which **10 bidders** have been empaneled. Against the target of 10,000 GPUs outlined in the IndiaAI compute pillar, **empaneled bidders have offered 14,517 GPUs at an average rate of Rs. 115 GPU per hour with Government support of upto 40%**. Further, an IndiaAI Compute Portal has been developed for accessing and leveraging the empaneled AI services on the cloud.

- **IndiaAI Innovation Centre (IAIC):** The AI Innovation Centre aims to develop and deploy indigenous Large Multimodal Models (LMMs) trained on India-specific data. A Call for Proposals was published by IndiaAI on 30th Jan 2025, inviting proposals from startups, researchers, and entrepreneurs to collaborate on building state-of-the-art foundational AI models trained on Indian datasets. In the first month, IndiaAI has received a total of **187 proposals** till 15thMarch 2025 aimed at building India's foundation models, with contributions from both established startups and new teams of researchers & academia.

- **IndiaAI Application Development Initiative**: The IndiaAI Application Development Initiative aims to develop, scale, and promote the adoption of impactful AI solutions to effectively tackle significant problem statements. Under this pillar, an Innovation Challenge was inviting participants to build AI solutions under five critical sectors/themes including healthcare, agriculture, governance, climate change and disaster management, and assistive technologies for learning disabilities. A total of 900 applications have been received across the five focus areas by the deadline of 30th September. Out of these, the **30 shortlisted AI solutions** under the identified sectors across three stages of maturity: Idea, Prototype, and Existing Solutions. The details of the shortlisted AI solutions are given in **Annexure I.**

- **IndiaAI Startup Financing**: The IndiaAI Startup Financing Pillar envisions for providing support to AI startups at all stages. The IndiaAI Mission in collaboration with **Station F (Paris, France) and HEC Paris**, had announced an ambitious acceleration program for Indian AI startups. This program will support **10 Indian AI startups** in scaling globally by leveraging the European market's vast opportunities. Through this partnership, selected startups will undergo a 4-month immersive onsite acceleration program at Station F, the world's largest startup campus. The program, designed by HEC Paris, Europe's leading business school, will provide startups with unparalleled access to resources, mentorship, and networking opportunities.

- **IndiaAI FutureSkills**: IndiaAI FutureSkills Pillar envisions to augment the number of graduates, post-graduate, and PhDs in the AI domain. Further, it envisions setting up Data and AI Labs in Tier 2 and Tier 3 cities across India to impart foundational-level courses in Data and AI. IndiaAI Fellowships are being offered to students pursuing relevant undergraduate and postgraduate programs at Private / Centrally Funded

Technical Institutes (CFTI) under the Government of India or must be recognized either by the All-India Council for Technical Education (AICTE) / National Board of Accreditation (NBA) / National Assessment and Accreditation Council (NAAC) of the University Grants Commission (UGC) or as per the extant norms. Till date, **150 UG students, 48 PG students, and 3 PhD scholars** have been selected for the IndiaAI Fellowship. Additionally, IndiaAI has established the IndiaAI Data Lab in the National Institute of Electronics & Information Technology (NIELIT's) Delhi centre and & ICET, Nagaland. Additionally, IndiaAI, in collaboration with NIELIT, plans to establish **27 data labs** in Tier 2 and Tier 3 cities across the country, details of which are placed in **Annexure II.**

- **IndiaAI Datasets Platform**: IndiaAI Datasets Platform (IDP) pillar aims to strengthen the national AI-ready data ecosystem by improving access to non-personal and anonymized datasets, AI Models, and Use Case Library for AI research and innovation. To further this goal, **a unified data platform named 'AIKosh' has been launched** to provide a one-stop solution for seamless access to all resources critical for AI Innovation. Designed to serve as a comprehensive repository of diverse datasets, this platform aims to support AI development by offering high-quality data to researchers and developers.

- **Safe and Trusted AI:** This pillarenables the implementation of Responsible AI projects, including the development of indigenous tools and frameworks, self-assessment checklists for innovators, and other guidelines and governance frameworks. Under Safe and Trusted Pillar, **Eight Responsible AI Projects** have been selected to address the need for robust guardrails to ensure the responsible development, deployment, and adoption of AI technologies. The projects cover a range of critical themes, including Machine Unlearning, Synthetic Data Generation, AI Bias Mitigation, Ethical AI Frameworks, Privacy-Enhancing Tools, Explainable AI, AI Governance Testing, and Algorithm Auditing Tools. The details of the selected projects are given in **Annexure III**. Additionally, IndiaAI invited Expressions of Interest from individuals and organizations for the development of tools in areas such as **Watermarking & Labelling, Ethical AI Frameworks, AI Risk Assessment & Management, Stress Testing Tools, and Deepfake Detection Tools**.

Further, the Government of India has constituted a multi-stakeholder **Advisory Group on AI for India-specific regulatory AI framework**, under the chairmanship of the Principal Scientific Advisor to the Government of India, with diverse stakeholders from academia, industry, and government with an objective to address all issues related to development of Responsible AI framework for safe and trusted development and deployment of AI. The report on AI Governance Guidelines Development emphasizes the need for a coordinated, whole-of-government approach to ensure effective compliance and enforcement as India's AI landscape continues to evolve. Public consultation on the report on AI Governance Guidelines Development has been completed and more than 100 suggestions have been received

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Annexure I

List of Data & AI labs planned by IndiaAI in collaboration with NIELIT in Tier 2 and Tier 3 cities across the country:

S.No.	NIELIT Centre	State/UT
1	Gorakhpur	Uttar Pradesh
2	Lucknow	Uttar Pradesh
3	Shimla	Himachal Pradesh
4	Aurangabad	Maharashtra
5	Patna	Bihar
6	Buxar	Bihar
7	Muzaffarpur	Bihar
8	Kurukshetra	Haryana
9	Ropar	Punjab
10	Haridwar	Uttarakhand
11	Bikaner	Rajasthan
12	Tezpur	Assam
13	Bhubaneswar	Odisha
14	Calicut	Kerala
15	Guwahati	Assam
16	Itanagar	Arunachal Pradesh
17	Srinagar	J&K
18	Jammu	J&K
19	Ranchi	Jharkhand
20	Imphal	Manipur
21	Gangtok	Sikkim
22	Agartala	Tripura
23	Aizawl	Mizoram
24	Shillong	Meghalaya
25	Kohima	Nagaland
26	Leh	Ladakh
27	Silchar	Assam

Annexure II

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

Sl.No.	Name of the Solution	Solution Description	Stage	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.	Solution	Agriculture
2	Krishi Sah‘AI’yak - Farming Co-pilot	AI-powered conversational co-pilot to provide personalized advisory to farmers in Indic languages	Solution	Agriculture
3	Kadalcompass - We Amplify the voice of water using Hydro-AI,Underwatercom,IoUT with Sensor Network	5G-enabled device that transforms fishing practices using AI, IoUT, and advanced communication technologies	Solution	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.	Solution	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.	Solution	Agriculture
6	AI deep-tech driven quality assessment of Maize	SAAS platform to provide objective quality assessment of maize including price estimation & sales pipelining.	Solution	Agriculture
7	AI-Driven Live Fish Logistics and Mortality Reduction in Aquaculture	AI-driven solution that optimizes aquaculture operations	Solution	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.	Prototype	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	Idea	Climate
10	Multi-Hazard Susceptibility Mapping	hazard management system topredict Landslides, Debris Flows and Flash Floods	Prototype	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	Prototype	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.	Prototype	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, mobil and cloud computing	Solution	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.	Solution	Healthcare
15	Impactful AI solution, preventing preventable blindness, for socio-economic transformation.	early detection of vision threatening retinal abnormalities	Solution	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	Solution	Healthcare
17	VoxelBox	Neuro-informatics platform that allows to map the functional maps / connectomics of the human brain	Prototype	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	Prototype	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.	Prototype	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 in lymph nodes using AI/ML based algorithms	Prototype	Healthcare
21	Readabled (Online Dyslexia Training)	web-based application designed to help children with dyslexia improve phonetic awareness through interactive exercises.	Solution	Learning disabilities
22	Voice fusion AI	AI application to provide assistive support to individuals with SLDs in multiple Indian languages	Prototype	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	Solution	Learning disabilities
24	Jiveesha	AI-powered diagnostic platform for early detection of SLDs	Idea	Learning disabilities
25	Adaptive Learning and Detection for SLDs	Advanced AI techniques to detect Specific Learning Disabilities (SLDs) such as dyslexia, dysgraphia, and dyscalculia.	Prototype	Learning disabilities
26	Special Educator AI	AI-driven system designed to address India's shortage of special educators and support children with SLDs.	Idea	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.	Solution	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	Solution	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	Prototype	Governance

30	Gov.Civis.Vote	AI-powered Digital Public Infrastructure designed to transform public consultations in India by making citizen engagement more inclusive, scalable, and comprehensive	Solution	Governance

Annexure III

The details of the selected projects under "Safe & Trusted AI" Pillar are as under:

NAME OF THE THEME	SELECTED APPLICANT	TITLE OF THE PROJECT
Machine Unlearning	IIT Jodhpur	Machine Unlearning in Generative Foundation Models
Synthetic Data Generation	IIT Roorkee	Design and Development of Method for Generating Synthetic Data for Mitigating Bias in Datasets; and Framework for Mitigating Bias in Machine Learning Pipeline for Responsible AI
AI Bias Mitigation Strategy	National Institute of Technology Raipur	Development of Responsible Artificial Intelligence for Bias Mitigation in Health Care Systems
Explainable AI Framework	DIAT Pune and Mindgraph Technology Pvt. Ltd.	Enabling Explainable and Privacy Preserving AI for Security
Privacy Enhancing Strategy	IIT Delhi, IIIT Delhi, IIT Dharwad AndTelecommunication Engineering Center (TEC)	Robust Privacy-Preserving Machine Learning Models
AI Ethical Certification Framework	IIIT Delhi and Telecommunication Engineering Center (TEC)	Tools for assessing fairness of AI model
AI Algorithm Auditing Tool	Civic Data Labs	ParakhAI - An open-source framework and toolkit for Participatory Algorithmic Auditing
AI Governance Testing Framework	Amrita Vishwa Vidyapeetham AndTelecommunication Engineering Center (TEC)	Track-LLM, Transparency, Risk Assessment, Context & Knowledge for Large Language Models

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