GOVERNMENT OF INDIA
MINISTRY OF ELECTRONICS AND INFORMATION TECHNOLOGY
RAJYA SABHA
UNSTARRED QUESTION NO. 1497
TO BE ANSWERED ON: 01.08.2025

INCLUSIVITY OF AI TECHNOLOGY

1497. SHRI AYODHYA RAMI REDDY ALLA:

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

(a) the approaches being adopted to ensure the inclusivity of Artificial Intelligence (AI) applications across healthcare, education, and agriculture given the focus on societal needs in various sectors;
(b) whether there are mechanisms established to evaluate the impact of AI initiatives on local communities, if so, the details thereof; and
(c) whether the mission incorporates public feedback in the development and deployment of AI technologies, if so, the processes in place to facilitate this engagement?

ANSWER

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

(a) to (c): In line with Hon'ble Prime Minister Shri Narendra Modi's vision, the Government is making technology accessible to all. The focus is on democratizing the development and use of Artificial Intelligence (AI) for real-world problems, ultimately improving lives across various sectors.

IndiaAI mission includes targeted interventions that, inter alia, ensure accountability, safety, fairness, and the protection of human rights and privacy.

AI ecosystem in India at present:
India has a strong information technology ecosystem. It generates annual revenues of more than 250 billion dollars and provides employment to more than 6 million people.
Global rankings such as Stanford AI rankings place India among the top countries in AI skills, capabilities, and policies to use AI. India is also the second-largest contributor to GitHub AI projects, showcasing its vibrant developer community.

India's AI strategy:
India's AI strategy aims to position India as a global leader in artificial intelligence. Government launched IndiaAI mission in March 2024. It is a strategic initiative to establish a robust and inclusive AI ecosystem aligned with India's development goals.

Seven pillars of AI mission are as follows:

1) **IndiaAI Compute Capacity:** It aims to provide high-end compute power (GPUs) to all, including MSMEs and startups, at an affordable cost.

2) **IndiaAI Foundation Models:** To develop India's own Large Multimodal Models (LMMs) trained on Indian datasets and languages. This is to ensure sovereign capability and global competitiveness in generative AI.
3) **AIKosh:** To develop large datasets for training AI models. AIKosh is a unified data platform integrating datasets from government and non-government sources.

4) **IndiaAI Application Development Initiative:**

   · This pillar aims to develop AI applications for India specific challenges in sectors such as climate change and disaster management, healthcare, agriculture, governance, and assistive technologies for learning disabilities.
   · Currently, 30 (thirty) applications have been shortlisted. The details of shortlisted AI solution are given at Annexure I.
   · In addition, sector-specific hackathons have been organized in partnership with other ministries and government institutions. IndiaAI launched the CyberGuard AI Hackathon in collaboration with the Indian Cybercrime Coordination Centre (I4C) under Ministry of Home Affairs to develop AI-driven solutions for cybersecurity.

5) **IndiaAI FutureSkills:** To develop AI skilled professionals in India by increasing the number of graduates, post-graduate and PhDs in AI domain. It also envisions setting up Data and AI Labs in Tier 2 and Tier 3 cities across India.

6) **IndiaAI Startup Financing:** To provide financial assistance to AI start-ups.

7) **Safe & Trusted AI:** To balance innovation with strong governance frameworks to ensure responsible AI adoption.

Centres of Excellence (CoEs) in Artificial Intelligence

· The Government of India has established three Centres of Excellence (CoEs) in Artificial Intelligence, focusing on healthcare, agriculture, and sustainable cities. The total budget outlay for these three CoEs is 990 crores. These CoEs are led by premier institutions:

  · IIT Kanpur, which leads sustainable cities.
  · IIT Ropar, which leads the agriculture sector and
  · IISc Bangalore, which leads healthcare sector.

· These Centres of excellence have partnered with a network of academic institutions, industry and government organisations in order to address the challenges in healthcare, agriculture and sustainable cities through AI enabled solutions.

Stakeholder Consultation:

- The Government had constituted 7 expert groups to deliberate and prepare a design document on IndiaAI. The first edition of IndiaAI expert group report, published on October 2023, detailed out the operational aspects of foundational pillars of India's AI mission. The report also recommends on how India can leverage its demographic dividend and play to its strengths to further the penetration of AI skills in the country, strengthening the AI compute infrastructure in India to support AI innovation.

- Under the IndiaAI mission, various workshops, webinars, and public consultations were held under its seven pillars, leading to stakeholder alignment, informed policymaking, capacity building, and inclusive AI adoption across key sectors.

Competency Framework for AI Integration

- A **Competency Framework for AI Integration** in India has been launched to equip public sector officials with the necessary skills to effectively engage with AI technologies, address public concerns responsibly, and incorporate citizen feedback in public service delivery

Advisory Group on AI

- The Government has formed an Advisory Group on AI, chaired by the Principal Scientific Advisor to the Prime Minister, to develop an India-specific regulatory framework for Responsible AI. Comprising stakeholders from academia, industry, and government, the group aims to ensure safe and trusted AI development.
- The report on AI Governance Guidelines emphasizes the need for a coordinated, whole-of-government approach to ensure effective compliance and enforcement as India's AI landscape continues to evolve. Given the evolving nature of AI technologies, the report recommends adoption of a techno legal approach to AI regulation.
- Public consultation on the report on AI Governance Guidelines Development has been completed and more than 100 suggestions have been received.

IndiaAI Impact Summit 2026

- As a part of preparation for the **IndiaAI Impact Summit 2026**, Government has conducted public consultations to gather inputs from stakeholders across academia. international orgnaisations, industry, startups, Think-Tanks and civil society. The insights are used to shape the Summit's agenda and ensure inclusive representation.

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Annexure I

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

- **Climate Change** and **disaster management:** 4 applications have moved to the next stage under this theme with 1 idea and 3 prototypes.

Indicative problem statement	**Title of the Project and Description**	**Team Name**	**Solution stage**
Early Warning Systems for Adverse and Sudden Climate Change	Heatwave Resilience: Integrating AI-based Advanced Forecasting for Extreme Heat Events: *Integrate AI-based climate forecasting with health data to develop a targeted risk classification system for heat-health impacts*	ARTPARK	Idea
Multi-Hazard Susceptibility Mapping	Multi-Hazard Susceptibility Mapping: *hazard management system that integrates four modules: Hazard Prone Area Database, Susceptibility Mapping, Threat Assessment & Mitigation Planning, and Monitoring & Assessment.*	Jarbits Pvt Ltd	Prototype
Solutions that correspond to both indicative problem statements	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*	Indian Institute of Technology Delhi	Prototype
Others: Climate and Outbreak of Diseases	Moskeet : Climate impact on mosquito-borne diseases: *AI-powered platform integrates real-time climate data with mosquito tracking to predict and prevent disease outbreaks.*	Moskeet	Prototype

- **Healthcare:** 8 applications have moved to the next stage under this theme with 4 prototype and 4 existing solutions.

Indicative problem statement	**Title of the Project and Description**	**Team Name**	**Solution Stage**
Early disease detection using AI-enhanced X-rays	*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	Endimension Technology Private Limited	Existing Solution

	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.*	Qure.ai Technologies Private Limited	Existing Solution
	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*	SIAMAF Healthcare	Prototype
Strengthening ophthalmology outcomes using AI for detection and management of conditions	Impactful AI solution, preventing preventable blindness, for socio-economic transformation: *DRISTi AI is a CE-marked, device-agnostic retinal screening solution detecting 16 DR-related abnormalities and 20 vision-threatening conditions.*	Artelus	Existing Solution
	VoxelBox: *SaaS platform that integrates advanced computational neuroscience, AI, and 3D visualization to provide clinicians with deeper insights into brain structure and function.*	BrainSightAI	Prototype
	Development of Ocellux: An AI-Based Solution for Enhanced Early Diabetic Eye Screening in INDIA: *smartphone-based retinal imaging device designed for capturing high-resolution images of the retina and anterior segment*	Anself Dynamics Pvt. Ltd.	Prototype
Others: Patients Monitoring	AI Powered Wearable Technology for Detection & Diagnosis of Musculoskeletal Joint Health Pain: *non-invasive device that enables physiotherapists to assess joint health with precision.*	Team Pheezee	Existing Solution
Others: Enabling Access to Healthcare	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.*	Jivi Health Private Limited	Prototype

- **Agriculture:** 8 applications have moved to the next stage under this theme with 1 prototype and 7 existing solutions.

Indicative problem statement	**Title of the Project and Description**	**Team Name**	**Solution stage**

Soil Testing and Advisory	Krishi Sah‘AI’yak - Farming Co-pilot: *AI-powered conversational assistant providing personalized agricultural advisory in multiple Indic languages.*	Samagra Development Associates Pvt. Ltd	Existing Solution
	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.*	Titodi Infotech Pvt Ltd	Existing Solution
	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.*	Neoperk Technologies Pvt. Ltd.	Existing Solution
Others: Carbon Credits for Soil Health	MRV: *in-house developed MRV (Measurement, Reporting, and Verification) technology designed to ensure the integrity and quality of generated carbon credits.*	Varaha Climate AG Private Limited	Existing Solution
Water and Fish Monitoring	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*	Innogle Technologies Pvt LTD	Existing Solution
	AI-Driven Live Fish Logistics and Mortality Reduction in Aquaculture: *AI-driven solution optimizes aquaculture operations by monitoring water quality, predicting potential issues, and providing prescriptive recommendations to ensure fish health and reduce mortality.*	SNRAS PVT LTD	Existing Solution
Quality of produce	AI-Deep tech driven quality assessment of maize: *Traceability of the maize quality from farm to processing units provides unique and important value for the entire product chain in the market*	RootsGoods (OPC) Pvt. Ltd.	Existing Solution
	Q-scan: *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.*	Qzense Labs Pvt Ltd	Prototype

- **Governance:** 4 applications have moved to the next stage under this theme with 1 prototype and 3 mature solutions.

Indicative problem statement	Title of the Project and Description	Team Name	Solution Stage
Public service access	ConvoZen.AI: *AI-powered conversational platform that automates customer engagement across channels like chat, voice, email, and social media, offering fast, personalized, and multilingual support.*	Nobroker Technologies Solutions Pvt. Ltd	Existing Solution
	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.*	Devnagri AI Pvt. Ltd	Existing Solution
Grievance Redressal and Legal Support	Adalat AI: AI solutions for Courts: *legal tech solution leverages AI-driven transcription to automate court processes, reducing India's overwhelming judicial delays.*	Legsys.AI Technology Foundation	Prototype
Others: Improving Internal Administration	Gov.Civis.Vote: *Leverages Civis' proven public consultation framework and integrates advanced technologies to create a unified platform for governments.*	Civic Innovation Foundation	Existing Solution

- **Assistive technologies for learning disabilities:** 6 applications have moved to the next stage under this theme with 2 ideas, 2 prototype and 2 mature solutions.

Indicative problem statement	Title of the Project and Description	Team Name	Solution Stage
Early Identification for SLDs	Jiveesha: *AI-powered platform for diagnosing Specific Learning Disabilities using advanced software and a plug-and-play device.*	Daira Edtech Private Limited	Idea
	ScreenPlay - a digital game-based screening tool or autism and related disorders: *AI-driven, game-based platform designed for early identification and intervention of Autism Spectrum Disorder in children aged 3-6.*	Kidaura Innovations Pvt Ltd	Existing Solution
Enhanced Multimedia Accessibility tools	Readabled (Online Dyslexia Training): *web-based application designed to help children with dyslexia improve phonetic awareness through interactive exercises.*	Hermit Labs Pvt. Ltd.	Existing Solution

	Voice fusion AI: *adaptive voice cloning platform designed to empower speech-impaired individuals to express themselves through emotionally connected, lifelike voice outputs,*	PerpetualBlock Technologies Private Limited	Prototype
Solutions that address both indicative problem statements	Adaptive Learning and Detection for SLDs*: advanced AI techniques to detect Specific Learning Disabilities (SLDs) such as dyslexia, dysgraphia, and dyscalculia.*	IITK-MadhavLab	Prototype
	Special Educator AI: *AI-driven system designed to address India's shortage of special educators and support children with Specific Learning Disorders.*	Viranc Infotech	Idea

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