

GOVERNMENT OF INDIA
MINISTRY OF ELECTRONICS AND INFORMATION TECHNOLOGY
RAJYA SABHA
UNSTARRED QUESTION. NO. 2459
TO BE ANSWERED ON: 21.03.2025

**AI AND AUTOMATION -BASED
INTERVENTIONS UNDER VIKSIT BHARAT 2047 VISION**

2459. SMT. SANGEETA YADAV:

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

- (a) the steps taken by Government to harness Artificial Intelligence (AI), blockchain and quantum computing to drive India's economic transformation under the Viksit Bharat 2047 vision;
- (b) whether Government has identified priority sectors for AI and automation-based interventions;
- (c) if so, the details of these sectors and the funding allocated for research and implementation;
- (d) whether the Ministry is actively collaborating with other Ministries/NITI AAYOG towards achieving the goal of 'Viksit Bharat'; and
- (e) if so, the details thereof and if not, the reasons therefor?

ANSWER

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

(a) to (e): The Government has taken various steps to harness Artificial Intelligence (AI), blockchain and quantum computing to drive India's economic transformation under the Viksit Bharat 2047 vision. The key initiatives are as follows:

(i) Government of India has approved the IndiaAI Mission on March 7, 2024, with a total budget outlay of Rs. 10,371.92 crore, as a strategic initiative to establish a robust and inclusive AI ecosystem aligned with India's development goals. The mission aims to position India as a global leader in artificial intelligence by fostering innovation, enhancing domestic capabilities, and ensuring the country's tech sovereignty. It seeks to demonstrate how AI can be leveraged for social good and global competitiveness. The IndiaAI Mission is built 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). 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.
- **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 organized to build AI solutions under five critical sectors/themes including healthcare, agriculture, governance, climate change and disaster management and assistive technologies for learning disabilities.
- **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.
- **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.

- **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. 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.
- **Safe and Trusted AI:** This pillar enables 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.

The Government of India, under the IndiaAI Mission, has implemented various measures across its seven pillars to establish AI infrastructure, foster AI research, and develop a thriving AI startup ecosystem nationwide.

(ii) Blockchain is a distributed ledger technology wherein digital transactions are transparent, immutable and verifiable with authentic audit trail of transactions. Ministry of Electronics and Information Technology (MeitY) has initiated various programmes/ schemes to promote the development of a Blockchain technology ecosystem in India.

- MeitY, launched the Vishvasya- Blockchain Technology Stack to offer Blockchain-as-a-Service for enabling various permissioned Blockchain based applications. The Technology Stack is hosted on geographically distributed infrastructure at National Informatics Centre (NIC) Data centres at Bhubaneswar, Pune and Hyderabad with necessary hardware & software infrastructure for end-to-end development & deployment of Blockchain based applications. The technology stack reduces the complexity involved in development and facilitates faster setup of Blockchain applications. Startup/ industry may collaborate with the Central/ State Ministries and Department to develop Blockchain-based applications using Technology Stack under suitable models. The initiative was started in March, 2021 with a total budget outlay of Rs. 64.76 crore for a duration of 4 years.
- MeitY in collaboration with Govt. of Haryana, Padup Venture Private Limited and Software Technology Parks of India (STPI) has initiated a Centre of Excellence (CoE) named APIARY in STPI Gurugram. This is an initiative to support promising start-ups in the field of Blockchain technology. The CoE is an incubation-cum-accelerator through which infrastructure, technology, mentoring, training for product development & product management in the Blockchain technology area are made available. The CoE was initiated in March, 2020 with a total budget outlay of Rs. 25.27 crore for a duration of 6 years.

(iii) Government of India has initiated the National Quantum Mission with a total budget outlay of Rs. 6003.65 Crore for a duration of 8 years. Under the National Quantum Mission, four Thematic Hubs (T-Hubs), each focusing on a specific domain of quantum technologies i.e. Quantum Computing, Quantum Communication, Quantum Sensing & Metrology and Quantum Materials & Devices have been established. The major mandates of the Thematic Hubs include: Technology Development, Human Resource Development, Entrepreneurship Development & Industry Collaboration and International Collaborations.
