



on Artificial Intelligence (AI) Mission NITI Aayog  
===== Forwarded message =====

Dear Sir/Madam,

This Ministry has received Rajya Sabha Provisionally Admitted Starred/Unstarred Question Dy. No. S2039 for answer on **01.08.2025** on **Artificial Intelligence (AI) Mission NITI Aayog**

2. The text of the question is reproduced below:

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

3. In this regard, you are requested to provide your inputs latest by **25.07.2025**.

This may kindly treated as **Most Urgent**.

Thanks & Regards,

Natla Sudheer Reddy  
Scientist 'C'  
Emerging Technologies Division  
Ministry of Electronics and Information Technology

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**Registrar MANIT** <registrar@manit.ac.in>

Tue, Jul 22, 2025 at 11:07 AM

To: HOD CSE <hodcse@manit.ac.in>, "Dr. Deepak Singh Tomar" <deepaktomar@manit.ac.in>, Dean Academic <deanacademic@manit.ac.in>, Sanyam Shukla <sanyamshukla@gmail.com>

[Quoted text hidden]

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**Registrar NIT Raipur** <registrar@nitrr.ac.in>

Wed, Jul 23, 2025 at 8:40 PM

To: "NITs Division, MoE Government of India" <nit.edu@nic.in>

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## MAULANA AZAD NATIONAL INSTITUTE OF TECHNOLOGY BHOPAL

**Subject:** Response from MANIT Bhopal to Rajya Sabha Starred/Unstarred Question Dy. No. S2039 regarding AI Mission by NITI Aayog

In reference to the Ministry's communication regarding the above-mentioned Rajya Sabha Question, please find below the response from Maulana Azad National Institute of Technology (MANIT), Bhopal. The Institute is actively contributing to the national AI ecosystem through research, collaborations, and responsible deployment practices aligned with India's AI Mission.

### **a. Steps Taken to Ensure Inclusivity of AI Applications in Healthcare, Education and Agriculture**

MANIT Bhopal has undertaken several initiatives to develop and apply Artificial Intelligence (AI) in **healthcare**, **agriculture**, and **education**, ensuring accessibility and inclusivity for diverse and underserved populations.

#### **Healthcare Initiatives**

- Developed AI models for **heart disease prediction**, aiding early diagnosis and preventive care.
- Created AI-based systems for **COVID-19** and **tuberculosis detection** using medical images like chest X-rays and microscopic slides.
- Designed AI tools for **glaucoma detection and staging** based on retinal images, supporting ophthalmological diagnostics in rural and semi-urban settings.

These solutions are optimized for low-resource environments, contributing to affordable and accessible healthcare delivery.

#### **Agricultural Applications**

- AI-based identification of **plant diseases** (e.g., mango leaf diseases, cassava diseases) using image processing and deep learning techniques.
- These tools support farmers with early disease warnings and reduce reliance on manual expert diagnosis, improving crop yield and productivity.

#### **Education Sector**

- MANIT promotes **AI-based learning platforms** and adaptive learning systems.
- Efforts are underway to incorporate **local language processing capabilities** and inclusive content design to serve students from diverse linguistic and socio-economic backgrounds.

## **b. Mechanisms in Place to Evaluate the Impact of AI-Based Solutions on Local Communities**

Currently, most AI models developed by researchers at MANIT Bhopal are evaluated using **publicly available datasets** from national and international repositories.

However, the Institute recognizes the importance of **contextual and community-specific data**. Therefore, the following steps are being undertaken:

- **Collaborations established with national agencies** such as:
  - **AIIMS Bhopal** – for access to anonymized health records and diagnostic imagery.
  - **ISRO** – for satellite imagery and geospatial datasets for agriculture and environmental monitoring.

These collaborations will help develop **indigenous datasets**, facilitating more accurate evaluation and validation of AI applications in Indian socio-cultural contexts.

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## **c. Ways Through Which Public Feedback is Taken into Account in the Development and Deployment of AI Systems**

While many research studies currently rely on existing datasets and standard evaluation metrics, there is an acknowledged need to incorporate **public feedback** during the development and deployment stages of AI systems.

To this end, MANIT is taking the following steps:

- The Institute will **issue formal guidelines** for all future AI research projects to:
  - Engage with target user groups during **data collection, design, and testing**.
  - Conduct **pilot deployments** followed by user feedback collection to refine AI systems.
  - Institutionalize mechanisms like **community surveys, focus group discussions, and impact assessments** to ensure responsible deployment.

These steps are aligned with the national vision of **Responsible AI** and aim to maximize social benefit, fairness, and transparency in AI-based solutions.