

**GOVERNMENT OF INDIA  
MINISTRY OF CHEMICALS AND FERTILIZERS  
DEPARTMENT OF PHARMACEUTICALS**

RAJYA SABHA  
UNSTARRED QUESTION NO. 833  
TO BE ANSWERED ON THE 30<sup>TH</sup> JULY, 2024

**Use of AI in drug development**

**833 Shri B. Parthasaradhi Reddy:**

Will the Minister of **Chemicals and Fertilizers** be pleased to state:

- (a) whether Government is planning to integrate the use of Artificial Intelligence (AI) in drug development;
- (b) if so, the details thereof and if not, the reasons therefor;
- (c) whether Government has taken any initiatives to support the development and deployment of AI technologies in the pharmaceutical sector;
- (d) if so, the details thereof and if not, the reasons therefor; and
- (e) whether Government is planning to take any measures to train professionals in the pharmaceutical sector for the use of AI in drug development?

**ANSWER**

**THE MINISTER OF STATE IN THE MINISTRY OF CHEMICALS &  
FERTILIZERS**

**(MS. ANUPRIYA PATEL)**

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(a) to (e): Yes. Department of Pharmaceuticals has taken steps to promote R&D in the sector including in the areas of Artificial Intelligence and Machine Learning through the Promotion of Research and Innovation in the Pharma-Medtech Sector (PRIP) Scheme. Further, NIPERs under the aegis of Department of Pharmaceuticals have introduced topics related to Artificial Intelligence in their courses and they provide training to students in AI-based tools to build human resource capacities in these areas for the pharmaceutical sector. In addition, the Department of Biotechnology (DBT) also supports Artificial Intelligence-based research activities in the biotech sector, particularly in the healthcare and agriculture areas, in order to leverage emerging technologies for these sectors.

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