

GOVERNMENT OF INDIA  
MINISTRY OF SCIENCE AND TECHNOLOGY  
DEPARTMENT OF SCIENCE AND TECHNOLOGY  
LOK SABHA  
UNSTARRED QUESTION NO.823  
TO BE ANSWERED ON 7/2/2018

ARTIFICIAL INTELLIGENCE

823. SHRI SATAV RAJEEV:  
DR. HEENA VIJAYKUMAR GAVIT:  
SHRIMATI SUPRIYA SULE:  
SHRI DHANANJAY MAHADIK:  
SHRI MOHITE PATIL VIJAYSINH SHANKARRAO:  
SHRI P.R. SUNDARAM:  
DR. J. JAYAVARDHAN:

Will the Minister of SCIENCE AND TECHNOLOGY *विज्ञान और प्रौद्योगिकी मंत्री* be pleased to state:

- (a) the details of the steps taken by the Union Government in the field of artificial intelligence research and development and its likely advantages and disadvantages;
- (b) the current levels of financial and institutional support provided by the Government for artificial intelligence;
- (c) whether the Government has any plan to encourage research in artificial intelligence in the country and if so, the details thereof and if not, the reasons therefor;
- (d) whether the country is moving towards adoption of artificial intelligence and if so, the various sectors where the artificial intelligence technology will be used;
- (e) whether the country has adequate infrastructure to incorporate artificial intelligence and if so, the details of the same; and
- (f) whether the Government has taken into consideration the job loss that is likely to occur if artificial intelligence is introduced and if so, the mechanism developed by the Government to address such issue?

ANSWER

MINISTER OF STATE IN THE MINISTRY OF SCIENCE AND TECHNOLOGY AND MINISTER OF STATE IN  
THE MINISTRY OF EARTH SCIENCES  
(SHRI Y.S. CHOWDHARY)

*विज्ञान और प्रौद्योगिकी मंत्रालय में राज्य मंत्री और पृथ्वी विज्ञान मंत्रालय में राज्य मंत्री*

(श्री वाई. एस. चौधरी)

(a) Cyber Physical Systems (CPS) is a new initiative launched in 2016 to promote and foster the upcoming and futuristic technologies. Artificial Intelligence is one of the major components of CPS. The Union Government has taken the following steps:

- (i) To promote R&D in artificial intelligence, expert driven research projects across the country have been initiated;
- (ii) For technology development and applications in artificial intelligence, a multi-institutional and multi-disciplinary cluster based network programmes have been evolved and supported.

**Advantages:**

- (i) Development of new algorithms, technologies and applications through expert driven research;
- (ii) Domain specific solution and technology development through cluster based methodology.

**Disadvantages**

- (i) As of now, no disadvantages have come up.
- (b) Around Rs.20 crores financial support has been provided by the Government during the current financial year 2017-18 to support R&D in Cyber Physical Systems including Artificial Intelligence
- (c) Yes Madam. Artificial Intelligence is one of the core components of National Mission on Interdisciplinary Cyber Physical Systems. As part of the Mission, The Government is encouraging research in Artificial Intelligence in the country by way of technology development, setting up of Centre of Excellences, Human Resource Development and Skill Enhancement, Entrepreneur Start-ups, Eco-system Development and International Collaborative Research.
- (d) Yes Madam. The Artificial Intelligence technology will be used in various sectors such as Medical, Heavy Industry, Financial, Banking, Education, Social Media and Agriculture.
- (e) The country has adequate minimal infrastructure which is envisaged to enhance further.
- (f) Yes Madam. It is perceived that there will be an element of job loss at the initial stage of adoption of Artificial Intelligence. However, by increasing the skills and enhancing the AI based services, more jobs are expected to be created.

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