

GOVERNMENT OF INDIA
MINISTRY OF SKILL DEVELOPMENT AND ENTREPRENEURSHIP
LOK SABHA
UNSTARRED QUESTION NO. 2222
ANSWERED ON 09.12.2024

AI-BASED SKILL TRAINING PROGRAMMES

2222. DR. BHOLA SINGH:

Will the Minister of SKILL DEVELOPMENT AND ENTREPRENEURSHIP be pleased to state:

- (a) the steps taken by the Government to integrate AI-based skill training programmes into the Skill India Mission;
- (b) the number of AI-related courses currently being offered under Government-run skill training programmes;
- (c) the details of number of beneficiaries enrolled in such courses, categorized by region and gender;
- (d) whether the Government has collaborated with private technology firms to improve AI training infrastructure and if so, the details thereof; and
- (e) the future plans of the Government for expanding AI-based training to align with India's workforce requirements?

ANSWER

THE MINISTER OF STATE (INDEPENDENT CHARGE) IN THE MINISTRY OF SKILL DEVELOPMENT AND ENTREPRENEURSHIP

(SHRI JAYANT CHAUDHARY)

(a) to (c): Under the Government of India's Skill India Mission (SIM), the Ministry of Skill Development and Entrepreneurship (MSDE) delivers skill, re-skill and up-skill training through an extensive network of skill development centres / institutes etc. under various schemes, viz. Pradhan Mantri Kaushal Vikas Yojana (PMKVY), Jan Sikhshan Sansthan (JSS), National Apprenticeship Promotion Scheme (NAPS) and Craftsman Training Scheme (CTS) through Industrial Training Institutes (ITIs).

Following steps have been taken to integrate AI- based skill training programs under SIM:

- i. New training programs have been introduced under PMKVY 4.0 to enhance digital and technical skills among youth. PMKVY 4.0 has focus on new age skills like Industry 4.0, Web 3.0, AI/ML etc.
- ii. State-wise and gender-wise details of the candidates enrolled under nine (09) AI-related courses under PMKVY 4.0 up to 31st October 2024 is given at **Annexure-I**.

- iii. Under NAPS, there are 61 private establishments which are providing apprenticeship related to AI-related courses. State-wise and gender-wise details of apprentices engaged under seven (07) AI-related trades under NAPS are given at **Annexure-II**.
- iv. Directorate General of Training (DGT) under MSDE has introduced one course 'Artificial Intelligence Programming Assistant (AIPA)' to impart AI-based skill training through Industrial Training Institutes (ITIs) and National Skill Training Institutes (NSTIs). The AIPA course has been implemented under CTS at selected 19 NSTIs from the Academic Session 2024-25. Gender-wise details of the 442 trainees admitted at 19 NSTIs is given at **Annexure-III**.
- v. A micro-credential course "Introduction to Artificial Intelligence (AI)" of 7.5-hour has been developed for all CTS trainees in Industrial Training Institutes (ITIs), in collaboration with industry and academic experts.
- vi. MSDE has launched Skill India Digital Hub (SIDH) platform, a comprehensive and accessible platform for skill enhancement, offering industry-relevant skill courses, job opportunities, and entrepreneurship support to youth of the country from rural and urban areas. SIDH offers an extensive array of AI and ML courses, ranging from foundational programs like 'Fundamentals of Azure AI Speech' and 'Machine Learning', to specialized offerings such as 'Google Cloud Generative AI' and 'AI Strategy to Create Business Value in Healthcare', to cater to varying levels of expertise and application, enabling participants to stay at the forefront of AI and ML technology.

(d) & (e): DGT has collaborated with Microsoft India to implement capacity-building training programs for the students of NSTIs & ITIs in the future skills ensuring better preparedness for upcoming jobs. The project provides training in digital productivity and advanced IT skilling viz., Artificial Intelligence/ Cloud & Cyber Security skilling, to the students of Government ITIs and NSTIs to empower learners with the essential skills to become self-reliant with industry-relevant skills and enhance their employability while connecting them to relevant job opportunities and the development of talents within the country.

ANNEXURES REFERRED TO IN PART (a) to (c) OF REPLY TO LOK SABHA UNSTARRED QUESTION NO. 2222 ANSWERED ON 09.12.2024 REGARDING 'AI-BASED SKILL TRAINING PROGRAMMES'

State-wise and gender-wise details of the candidates enrolled in nine (09) AI-related courses under PMKVY 4.0 up to 31st October 2024:

Sl No	Trades	Female	Male	State/UT
1	AI - Business Intelligence Analyst	1206	1309	Andhra Pradesh, Haryana, J&K, Karnataka, Maharashtra, Punjab, Tamil Nadu, Uttarakhand
2	AI- Data Architech	466	209	Bihar, Kerala, Rajasthan, Tamil Nadu, Uttar Pradesh
3	AI - Data Engineer	632	778	Andhra Pradesh, Bihar, Gujarat, Maharashtra, Odisha, Punjab, Rajasthan, Tamil Nadu, Uttar Pradesh
4	AI – Data Quality Analyst	3824	2522	Andhra Pradesh, Assam, Bihar, Gujarat, Haryana, Himachal Pradesh, J&K, Karnataka, Kerala, Madhya Pradesh, Odisha, Rajasthan, Tamil Nadu, Telangana, Uttar Pradesh
5	AI – Data Scientist	2220	2227	Andhra Pradesh, Arunachal Pradesh, Assam, Bihar, J&K, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Rajasthan, Tamil Nadu, , Uttar Pradesh, Uttarakhand
6	AI - Machine Learning Engineer	3697	3942	Andhra Pradesh, Gujarat, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Odisha, Rajasthan, Tamil Nadu, Telangana, Uttar Pradesh
7	AI-Solution Architect	90	247	Andhra Pradesh, Punjab
8	AI & ML-Jr Telecom Data Analyst	115	200	Gujarat, Tamil Nadu, Tripura, Uttar Pradesh
9	AI- Device Installation Operator	77	88	Tamil Nadu

Annexure-II**State-wise and gender-wise details of apprentices engaged in seven (07) AI-related trades under NAPS:**

SI No	Trades	Female	Male	State/UT
1	AI - Business Intelligence Analyst	09	16	Gujarat, Karnataka, Maharashtra, Rajasthan and Telangana
2	AI - Data Engineer	33	50	Karnataka, Maharashtra, Punjab, Tamil Nadu and Telangana
3	AI - Database Administrator	16	12	Delhi, Gujarat, Karnataka, Maharashtra, Punjab, Tamil Nadu, Telangana, Dadra & Nagar Haveli And Daman & Diu and Uttar Pradesh
4	AI - Machine Learning Engineer	01	02	Maharashtra and Telangana
5	AI – Data Quality Analyst	120	135	Delhi, Gujarat, Jharkhand, Karnataka, Madhya Pradesh, Maharashtra, Odisha, Tamil Nadu, Telangana, Uttarakhand
6	AI – Data Scientist	23	33	Gujarat, Haryana, Karnataka, Maharashtra, Uttar Pradesh
7	AI – DevOps Engineer	89	85	Goa, Gujarat, Karnataka, Telangana, Uttar Pradesh, West Bengal

Annexure-III

Gender-wise details of the 442 trainees admitted 'Artificial Intelligence Programming Assistant (AIPA)' at 19 NSTIs as on 5th December 2024:

Sl. No	Institute's	Male	Female
1	NSTI Bengaluru	12	2
2	NSTI Calicut	20	4
3	NSTI Chennai	13	7
4	NSTI Howrah	11	9
5	NSTI Jodhpur	4	16
6	NSTI Kanpur	16	8
7	NSTI Ludhiana	19	5
8	NSTI Mumbai	17	2
9	NSTI Ramanthapur	15	9
10	NSTI W Allahabad	-	24
11	NSTI W Bengaluru	-	16
12	NSTI W Hyderabad	-	24
13	NSTI W Indore	-	24
14	NSTI W Jaipur	-	24
15	NSTI W Kolkata	-	24
16	NSTI W Mumbai	-	24
17	NSTI W Noida	-	48
18	NSTI W Patna	-	21
19	NSTI W Vadodara	-	24
	Total	127	315
