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To Study the Transforming India with Artificial Intelligence (AI)

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Abstract:

India's Artificial Intelligence (AI), in early 2026, held world's third most AI-competitive nation. This is called as IndiaAI Mission. In 2024, under the vision "Making AI in India and Making AI Work for India", a ₹10,371.92 crore initiative launched to democratize technological skills. AI is expected to $1.7 trillion to India's economy by 2035. Moreover, in a given above data 6 million people are currently employed in the technology and AI system. As well as, AI talent base is estimated to reach 1.25 million by 2027. In addition to that, in year 2024, near about 89% of new start-ups launched with AI. Present study focussed on use cases of AI such as healthcare, agriculture, employment and weather condition. Moreover, analyzed advantages of AI in automation, decision making, data anaysis etc. It concludes that, Artificial Intelligence (AI) is the machines to perform tasks and require human intelligence. Its significant contribution is more remarkable in healthcare, agriculture, employment and weather condition.

Keywords: Healthcare, Agriculture, Weather Condition, Employment etc.

Introduction:

India's Artificial Intelligence (AI), in early 2026, held world's third most AI-competitive nation. This is called as IndiaAI Mission. In 2024, under the vision "Making AI in India and Making AI Work for India", a ₹10,371.92 crore initiative launched to democratize technological skills. AI is expected to **$1.7 trillion** to India's economy by 2035. Moreover, in a given above data **6 million people** are currently employed in the technology and AI system. As well as, AI talent base is estimated to reach 1.25 million by 2027. In addition to that, in year 2024, near about **89% of new start-ups** launched with AI.[1]

Objectives of the Study:

1. To study the concept of AI.
2. To evaluate use cases of AI.
3. To draw conclusion.

Research Methodology of the Study:

The study is based on secondary data. The required data has been extracted from report and websites.

Concept of Artificial Intelligence:

The concept of Artificial Intelligence (AI) is enabling machines to perform tasks requiring human intelligence, like learning, problem-solving, decision-making, and understanding language, by using algorithms, data, and computing power to simulate cognitive functions, allowing systems to analyze, and improve over time without constant human input. It's a broad field in computer science focused on building intelligent systems that can perceive, reason, and act to achieve goals, moving beyond explicit programming to learn from data and experience.[2]

Use Cases of AI:

Agriculture:

AI predicts weather condition and also detects pest attacks in agriculture sector. It suggests optimum times to farmers or younger farmers for irrigation and sowing. The Ministry of Agriculture and Farmers Welfare is using AI through initiatives programme like Kisan e-Mitra, a virtual assistant. It helps farmers to access government schemes such as PM Kisan Samman Nidhi.

Education and Skilling-

India's education system AI makes learning more inclusive towards future direction. The National Education Policy (NEP) 2020, the Central Board of Secondary Education (CBSE) offers a 15-hour AI skill unit from Class VI and an optional AI subject from Class IX to XII. The NCERT's DIKSHA digital learning platform uses various AI tools such as keyword search videos and read-aloud features to improve accessibility, specifically for visually impaired learners.

In addition to that, under MeitY the National e-Governance Division (NeGD), has implemented **YUVAi: Youth for Unnati and Vikas with AI,** a programme to students from Classes 8 to 12 with AI and social skills. The programme provides a learning platform for students to learn and use of AI skills across eight thematic areas: Krishi, Aarogya, Shiksha, Paryavaran, Parivahan, Grameen Vikas, Smart Cities, and Vidhi aur Nyaay etc.

Employment:

Artificial Intelligence is creating new kinds of job opportunities. The report of NASSCOM 'Advancing India's AI Skills' (Aug. 2024), AI of the India talent has projected to grow from about 6 to 6.5 lakh specialists to more than 12.5 lakh by 2027.

AI is demand in various areas such as data science, AI engineering, data curation and analytics. As of Aug. 2025, around 8.65 lakh candidates have registered or trained in various technology courses, as well as 3.20 lakh in AI and Big Data Analytics.

Under MeitY FutureSkills PRIME, a national programme focused on IT professionals in 10 new and initial technologies, including AI. Moreover, near about 18.56 lakh candidates had engaged to the FutureSkills PRIME portal, and over 3.37 lakh candidate had successfully completed these courses.

Weather Forecasting and Climate Services:

India's AI digital platform has to predict and respond to natural actions. The India Meteorological Department has uses AI models to predict rainfall, lightning, and fire. In advance Dvorak Technique has helps to estimate cyclone intensity, while MausamGPT, an upcoming technique of AI chatbot. It will deal with real-time weather and climate condition.

Healthcare:

AI helps to doctors for detect diseases and analyse medical scans with recommend personalised treatments. Telemedicine platforms of AI connect to patients in rural areas and it also provides specialists in top hospitals and also saving cost and time. India's participation in HealthAI, with collaborations between ICMR and IndiaAI with countries like the United Kingdom and Singapore are ensuring responsible innovation and global best practices.[3]

Advantages of AI:

Efficiency and Automation: AI work smothly and reducing human errors. This helps us save time, and cost and concentrate on more dynamic strategic and innovative tasks.

Improved Decision Making: AI process and analyze large data sets and helps to businesses, and individuals, data-driven decisions. It is beneficial in sectors like healthcare, retail and finance.

Personalization: It helps to personalize experiences through analyzing user preferences, and customizing recommendations. AI enhances users satisfaction, as seen in platforms like Netflix, Amazon and social media feeds.

24/7 Availability: It work continuously without any rest. it is an ideal type for customer support, data collection and security monitoring.

Data Analysis and Pattern Recognition: It is analyzing large volumes of data and identifying patterns that may be difficult for humans to recognize. This capability helps in areas like healthcare diagnostics, fraud detection and market analysis.[4]

Conclusion:

It concludes that, Artificial Intelligence (AI) is the machines to perform tasks and require human intelligence. Its significant contribution is more remarkable in healthcare, agriculture, employment and weather condition.

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