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Global Journal of Engineering, Design & Technology

Commentary

An Analysis of Artificial Intelligence in India

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ABOUT THE STUDY

India, renowned for its extensive history of pioneering and a rapidly growing technology sector, has swiftly adopted Artificial Intelligence (AI). Now, let us go on an in-depth examination of the state of Artificial Intelligence (AI) in India, encompassing several domains.

India's robust base in traditional mathematics, science, and computers, as demonstrated by prominent personalities such as Ramanujan and esteemed institutions like the Indian Institutes of Technology (IITs), has greatly supported AI development.

The early stages of AI witnessed modest advancements during the 1980's and 1990's, predominantly driven by university research.

AI for All is an effort aimed at democratizing AI in India, with the goal of boosting its utilization in many areas and providing widespread accessibility.

Leading technical institutes such as the Indian Institutes of Technology (IITs), Indian Institutes of Information Technology (IIITs), and the Indian Institute of Science (IISc) have developed specialized departments and research laboratories focused on Artificial Intelligence (AI).

India has experienced a significant increase in the number of firms that utilize Artificial Intelligence (AI), such as Zebra Medical Vision and SigTuple. These startups mostly concentrate on industries such as healthcare, finance, and agriculture.

Ensuring the absence of biases in AI algorithms, particularly in a diverse nation like India, is of utmost importance in terms of ethics and fairness.

India is now making substantial progress in the adoption and development of Artificial Intelligence (AI), while there are still persistent hurdles. An equitable strategy, taking into account both the technological and socio-cultural intricacies of the Indian setting, would be essential for ensuring sustainable AI expansion. Properly utilized, AI has the capacity to accelerate India's progress as a dominant force in global technology. Essential for ensuring sustainable AI expansion. Properly utilized, AI has the capacity to accelerate India's progress as a dominant force in global technology.

Artificial Intelligence (AI), a ground-breaking field of technology, has been revolutionizing industries worldwide. India, with its distinctive amalgamation of ancient customs and modern technological expertise, finds itself at a fascinating intersection of this transition. India is making efforts to utilize the potential of Artificial Intelligence (AI) for its large and diversified population, leveraging its strong foundations in mathematics and computing as well as modern governmental policies

This study examines the contrast between India's rapid advancement in artificial intelligence and the obstacles it encounters in terms of qualified workforce and infrastructure. The project aims to offer strategies and recommendations that would enable India to fully utilize the economic benefits of AI while simultaneously addressing societal and ethical problems, resulting in comprehensive development.

India's increasing significance in the global AI field is emphasized in the literature, however growth is accompanied by obstacles in education, infrastructure, and ethics. Although there has been a significant increase in the number of AI start-ups and investments, researchers stress the importance of implementing comprehensive measures to ensure that the advantages of AI are spread evenly across the nation's diversified landscape.

When the quantity of AI experts grows, there is a proportional rise in AI initiatives. Nevertheless, this association does not establish a causal relationship. Additional variables, such as global partnerships or financial contributions, can impact the quantity of projects.

The substantial proportion of unsolved cases signifies a deficiency in the current regulatory structure. India may require a more resilient or specialized framework to tackle difficulties specifically related to artificial intelligence.

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Received: 28-Oct-2023, Manuscript No. GJEDT-23-27828; **Editor assigned:** 30-Oct-2023, PreQC No. GJEDT-23-27828 (PQ); **Reviewed:** 14-Nov-2023, QC No. GJEDT-23-27828; **Revised:** 18-Jan-2025, Manuscript No. GJEDT-23-27828 (R); **Published:** 25-Jan-2025, DOI: 10.35248/2319-7293.25.14.244

Citation: Hans VB (2025) An Analysis of Artificial Intelligence in India. Global J Eng Des Technol. 14:244.

In conclusion, India is currently at a critical juncture in terms of technical progress, aiming to utilize the revolutionary potential of Artificial Intelligence (AI) to benefit its extensive and varied people. This study has elucidated the complex and diverse environment of artificial intelligence in the country, uncovering both its great prospects and the obstacles it encounters.

The growing AI start-up ecosystem, along with substantial investments from both local and international entities, presents a promising outlook for the future of AI in India. The country has showcased its capacity to emerge as a leading force in artificial intelligence on a worldwide scale, as substantiated by its position in AI research and the development of innovative start-ups. Nevertheless, the expedition is not devoid of obstacles.