

Management in Action – INSIGHTS FROM CASE STUDIES

Editors

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Comparative Analysis of AI Adoption Across Indian Industries: Education, Manufacturing, Service, Logistics, Healthcare, and Film

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Abstract

Artificial Intelligence (AI) has emerged as a transformative force across various sectors, reshaping industry processes, enhancing efficiency, and driving innovation. This case study examines the integration of AI in six critical industries in India: education, manufacturing, services, logistics, healthcare, and film. By analyzing current applications, challenges, and future trends in each sector, this study provides insights into how AI is enabling these industries to adapt to rapid technological advancements. With an emphasis on the unique challenges and opportunities within the Indian context, the study reveals that while AI adoption is gaining momentum, there are sector-specific concerns related to ethical implications, infrastructural limitations, and workforce readiness. The analysis concludes with an exploration of the future potential of AI in each sector and its implications for India's socioeconomic landscape.

Keywords: Artificial Intelligence, Trends & Challenges

Background

AI's rapid development and integration have been global phenomena, impacting economies, societies, and businesses worldwide. In India, AI has seen growing adoption across diverse sectors, driven by the government's commitment to making India a global leader in AI. The National Strategy for Artificial Intelligence (NITI Aayog, 2018) highlights AI's potential to transform the Indian economy, improve efficiencies, and address social issues such as healthcare accessibility and educational disparity (NITI Aayog, 2018). As industries in India embrace AI, they confront unique challenges related to data privacy, labor displacement, ethical considerations, and limited digital infrastructure.

The adoption of AI varies by sector, with some industries, such as education and healthcare, leveraging AI to improve access and quality, while others, such as manufacturing and logistics, focus on efficiency and automation. This study