

# The Impact of Artificial intelligence in Employment

Mrs. Cheshma K M<sup>1</sup>, Mrs. Sowmya M A<sup>2</sup>, Mr. Raj Kishore S N<sup>3</sup>, Mr. Mahendra B S<sup>4</sup>, Mr. Mallikarjunaradhya H M<sup>5</sup>

<sup>1</sup>Dept. of Commerce & Business Administration, Sarada Vilas College, Mysuru

<sup>2</sup>Dept. of Commerce & Business Administration, Sarada Vilas College, Mysuru

<sup>3</sup>Dept. of Commerce & Business Administration, Sarada Vilas College, Mysuru

<sup>4</sup>Dept. of Commerce & Business Administration, Sarada Vilas College, Mysuru

<sup>5</sup>Dept. of Commerce & Business Administration, Sarada Vilas College, Mysuru

## Abstract –

Artificial Intelligence (AI) has rapidly evolved, becoming an integral part of various industries, revolutionizing the way we live and work. However, the increasing integration of AI has sparked debates about its impact on employment. Is AI a threat, replacing jobs and leaving a trail of unemployment, or is it a catalyst for new opportunities, creating jobs we never imagined.

### ● **Key Words:**

- Artificial Intelligence.
- The National Association of Software and Service Companies.
- Employability
- Transformation.

## 1. INTRODUCTION

*By automating repetitive work and generating new job kinds, artificial intelligence (AI) is transforming the labor market. By 2030, 20–50 million new employments are anticipated as a result of AI, including in the pharmaceutical, healthcare, and other sectors.*

*The economy is anticipated to gain from higher output and productivity, even if some industries may see a large loss of jobs. It's critical to comprehend how AI will affect employment and the economy as it develops further.*

*AI is quickly changing the workforce; the labor market and employment landscape are already showing notable shifts as a result. To remain competitive and effective, businesses and employees must adjust as AI develops and advances. We'll look at how AI is changing the workforce, how it can make organizations and employees more productive, and the possible advantages and*

*disadvantages of a larger-scale AI implementation in this article.*

### **Objectives:**

1. To investigate how artificial intelligence (AI) may affect employment prospects in India.
2. To determine the elements of AI that influence employment prospects and difficulties in the nation.

### **Research Methodology:**

The systematic gathering and analysis of secondary of secondary data is part of the research technique used in this study. The researcher thoroughly examined numerous published papers, reports, and articles that were pertinent to the study's subject.

A thorough selection procedure was used to choose 20 papers that directly fit the research objectives from a pool of 50 papers that were examined.

This research aims to achieve the following goals:

1. To promote understanding of the complexities of artificial intelligence (AI).
2. To carefully examine how AI will significantly affect job prospects in a variety of Indian industries.
3. To identify and understand the difficulties that artificial intelligence (AI) presents for occupations in various industries that need a range of skill levels.
4. To investigate the numerous employment prospects that result from India's use of AI.

### **AI's Effects on Employability across Multiple Industries:**

By 2025, data and AI could boost India's GDP by between \$450 and \$500 billion. Three major industries—consumer goods and retail, agriculture, and banking and

finance—are anticipated to account for about 45% of this value. AI has the potential to be extremely important in agriculture by raising the income of farmers through better yield and production planning.

Likewise, the consumer goods and retail industries can profit from tailored campaigns and focused marketing, while the BFSI industry can use AI for credit underwriting and financial risk modelling.

**Agriculture:** Artificial Intelligence (AI) has the potential to transform Indian agriculture by tackling issues such as farmers' lack of finance, infrastructure, and expertise. Applications of AI in agriculture include precision farming, agricultural robotics, managing pests and weeds, and evaluating crop health using AI-based crop price predictions, weather forecasting, drones, and soil monitoring devices.

Artificial Intelligence is anticipated to reduce stress in the agricultural industry and encourage data-driven farming, which would boost output. Technology-aided agriculture is expanding due to government funding and initiatives, as well as widespread internet use. By 2025, the Indian agritech business is expected to be worth between \$30 and \$35 billion, drawing substantial investments made by venture capital and private equity firms. It is anticipated that this government assistance will spur growth along India's whole agricultural value chain.

**IT sector:** India's IT industry is keeping up with emerging tech trends like cloud, artificial intelligence, and cyber and data security. It is home to significant international corporations like TCS, Infosys, Wipro, and Tech Mahindra. These businesses prioritize cutting-edge technology like machine learning (ML) and artificial intelligence (AI), making research and development investments to meet customer demands. To speed up development, the industry understands how critical it is to update technology stacks, make use of cloud infrastructure, and automate software delivery. It is anticipated that the Indian IT landscape would be AI-driven, dependent on hybrid cloud solutions, and heavily focused on data security and privacy in the future.

**Healthcare:** AI is revolutionizing the Indian healthcare industry, and its market is expected to expand dramatically. AI is being used in fields like as predictive analytics, remote monitoring, tailored care, diagnostics, and improved patient experience. It is facilitating quicker and more precise diagnostics in order to alleviate the radiology deficit. Better results are being achieved as a

result of AI algorithms creating individualized treatment programs using patient data. Healthcare professionals may now keep an eye on patients from a distance thanks to remote monitoring systems, particularly for those with long-term medical conditions.

**Banking and Insurance:** The Indian banking sector is fast changing due to AI, which improves customer service and efficiency. Start-ups are using AI for data analysis and chatbots. India's AI sector, meanwhile, lags behind leaders worldwide. Asset management is being transformed by AI, recruiting and banking customer service. Block chain is one of the new technologies that the Reserve Bank of India is promoting to enhance customer satisfaction. India is a centre for innovation in part because of its fin-tech industry and technological ecosystem. Although there is a lot of promise for AI in banking, more funding is required.

**Manufacturing:** AI is replacing jobs in some parts of the manufacturing industry by automating repetitive processes. But it also gives competent professionals the chance to oversee and maintain robotics and AI-powered systems.

**Retail:** AI is having an impact on the retail industry through customer service, inventory control, and tailored marketing. Personalized recommendations can be made and some operations, such as stock tracking and restocking, can be automated. But it could also result in job displacement in conventional retail positions.

**Education:** By providing automated grading, intelligent tutoring systems, and individualized learning experiences, artificial intelligence is revolutionizing the education industry. It may have an effect on teaching roles by automating some administrative duties, but it also gives teachers new chances to take advantage of AI technologies.

### **Risk of AI on Employability:**

Historically, technological advancements have typically led to an overall increase in employment rather than a decrease. Economists cannot agree on how much long-term unemployment will arise from the development of robotics and artificial intelligence. However, the majority of economists concur that if productivity increases are allocated fairly, the use of AI might result in a net

advantage. AI has the potential to eliminate a large number of middle-class employments, in contrast to past automation waves. The Economist expresses legitimate concerns that AI might affect white-collar occupations in a manner akin to that of steam power's influence on blue-collar jobs during the Industrial Revolution. Employment like while there is a greater need for care-related occupations like personal healthcare and clergy, paralegals and fast-food chefs are especially vulnerable.

### 3. CONCLUSION

India is developing quickly to satisfy the needs of both its dynamic economy and the changing global environment. Experts predict that the emergence of AI will usher in the fourth Industrial Revolution, transforming the industrial and service industries alike. This Numerous professions in a variety of industries are at risk due to the AI revolution. Cities are becoming smart centres with contemporary conveniences, but certain occupations will also go as a result of this change.

As other experts have also pointed out, it is crucial to remember that machines will not entirely replace all employment. Intelligent automation may eliminate some jobs, but human intelligence will continue to be necessary for crucial decision-making professions requiring a high degree of ability. This In the upcoming years, transformation is anticipated to improve India's infrastructure and support economic expansion. However, due to AI-driven changes, it is predicted that some occupations in particular industries may vanish in the next five to ten years.

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