



A STUDY OF ARTIFICIAL INTELLIGENCE IN MODERN HUMAN RESOURCE MANAGEMENT

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ABSTRACT

In the contemporary world, artificial intelligence (AI) plays an important role in various activities pertaining to human resource management (HRM). It is instrumental in enhancing various human resource functions, such as recruitment, training, and performance evaluation. However, the main objective of conducting this research is to shed more light on the significance of AI in the context of HRM. For the purpose of conducting the research, both primary and secondary data were used. Questionnaires were used as the primary data, whereas books and Internet materials were used as secondary data. From the findings of the research, it is clear that AI has the potential to reduce the workload of managers, improve the decision-making process, and boost efficiency in the context of human resource departments. However, certain challenges might arise in the future, such as the financial costs associated with AI and the lack of knowledge regarding AI.

KEYWORDS: *Artificial Intelligence, Human Resource Management, Recruitment, Employee Performance, HR Technology.*

1.1 INTRODUCTION

Artificial Intelligence is an important technological advancement that has an impact on various functions in the business world. One of the main functions in the business world where AI has had a substantial impact is Human Resource Management. AI is changing conventional Human Resource Management functions in terms of efficiency, accuracy, and decision-making.

In modern organizations, the Human Resource Management department is responsible for handling large amounts of data regarding employees. This includes data regarding recruitment, training, performance assessment, and engagement. AI is helping Human Resource Management professionals in analyzing the data quickly. It is also reducing labor costs and increasing productivity.

There is an increasing use of AI in the recruitment and selection of employees. This is helping in the screening of candidates, selecting suitable candidates, and scheduling interviews. AI is also useful in training employees. It can help in training employees individually. Additionally, AI is useful in the engagement of employees. This is being done by using chatbots that help employees get quick responses regarding various Human Resource Management policies.

The use of AI in Human Resource Management is changing conventional Human Resource Management functions into more strategic functions. Organizations that use AI in Human Resource Management functions can benefit in terms of efficiency, satisfaction, and gaining a competitive edge.

1.2 PROBLEM STATEMENT

Human Resource Management comprises various complex processes such as recruitment, training, performance evaluation, and workforce planning. The traditional Human Resource Management processes often involve manual processes that are labor-intensive and prone to errors. As organizations expand and generate more employees and information, managing Human Resource Management processes is becoming increasingly complex. Therefore, there is an urgent need to implement advanced technology that is capable of automating processes and improving decision-making processes. Artificial Intelligence provides unique and creative solutions to these problems. However, organizations are still at the nascent stage of implementing Artificial Intelligence in Human Resource Management. Therefore, it is vital to understand the impact and effectiveness of Artificial Intelligence in Human Resource Management processes. The purpose of this study is to investigate the role of Artificial Intelligence in modern Human Resource Management and analyze its impact on Human Resource Management processes and organizational performance.

1.3 OBJECTIVES OF THE STUDY

- Elucidate the concept of Artificial Intelligence in Human Resource Management.
- Analyze the significance of Artificial Intelligence in contemporary Human Resource Management practices.
- Examine the advantages of Artificial Intelligence in Human Resource Management.
- Evaluate the consequences of Artificial Intelligence on employees' performance.
- Identify the challenges associated with the application of Artificial Intelligence in Human Resource Management.



1.4 RATIONALE FOR THE STUDY

In recent times, the rapid evolution of digital technologies has revolutionized the operations of organizations. Artificial Intelligence is an influential technology that has the potential to revolutionize Human Resource Management. While many organizations are adopting Artificial Intelligence to improve Human Resource Management practices, it is imperative to understand the implications of Artificial Intelligence on Human Resource Management practices. This study aims to elucidate the significance of Artificial Intelligence in Human Resource Management.

1.5 SCOPE OF THE STUDY

This study focuses on the application of Artificial Intelligence in Human Resource Management. It examines the application of Artificial Intelligence in Human Resource Management practices. It further evaluates the advantages and challenges associated with the application of Artificial Intelligence in Human Resource Management. This study seeks to examine the different ways in which artificial intelligence technologies contribute to the management of various aspects of human resource management, such as employee recruitment, training, and performance evaluation. Additionally, this study seeks to examine the benefits and challenges associated with the adoption of artificial intelligence in the management of human resource management. This study will provide implications for the understanding of the potential of artificial intelligence in the management of human resource management.

CHAPTER II

2.1 REVIEW OF LITERATURE

The existing literature has highlighted the growing importance of artificial intelligence in the management of human resource management. Over the years, various researchers have attempted to examine the potential of artificial intelligence in the management of various aspects of human resource management. Several researchers have highlighted the potential of artificial intelligence in the management of the employee recruitment process. For instance, various researchers have noted that artificial intelligence has the potential to streamline the employee recruitment process. Additionally, other researchers have highlighted the potential of artificial intelligence in the management of the employee training and development function. Moreover, various researchers have identified the challenges associated with the adoption of artificial intelligence in the management of human resource management.

CHAPTER III

RESEARCH METHODOLOGY

3.1 TYPES OF RESEARCH

The research study will employ a descriptive research design. Descriptive research will help in understanding the nature and consequences of Artificial Intelligence in the field of Human Resource Management.

3.2 SAMPLING PLAN

The sampling plan indicates the technique of selecting the respondents for the research study. Data will be collected through a structured questionnaire.

3.3 SAMPLING PROCEDURE

A convenience sampling technique will be employed for collecting the data.

3.4 SAMPLE SIZE

The study will be conducted using the respondents who provide data on the usage and consequences of Artificial Intelligence in Human Resource Management.

3.5 SOURCES OF DATA

Both primary and secondary data will be used for the study.

PRIMARY DATA:

The data will be collected using the questionnaire method.

SECONDARY DATA:

The data will be collected from various sources such as books, journals, websites, and existing research studies related to Artificial Intelligence and Human Resource Management.

3.6 TOOLS FOR DATA ANALYSIS

The data will be analyzed using various statistical tools such as:

- Percentage analysis
- Tables and charts

The data will be analyzed using the above tools, and the results of the study will be explained.



CHAPTER IV

DATA ANALYSIS AND INTERPRETATION

The responses were analyzed using percentage analysis. Data was organized and represented in a proper manner using tables and charts to increase the clarity of the responses. It was observed from the data that a considerable number of people think that Artificial Intelligence adds value to the human resource process. The responses suggest that AI systems help in minimizing the workload.

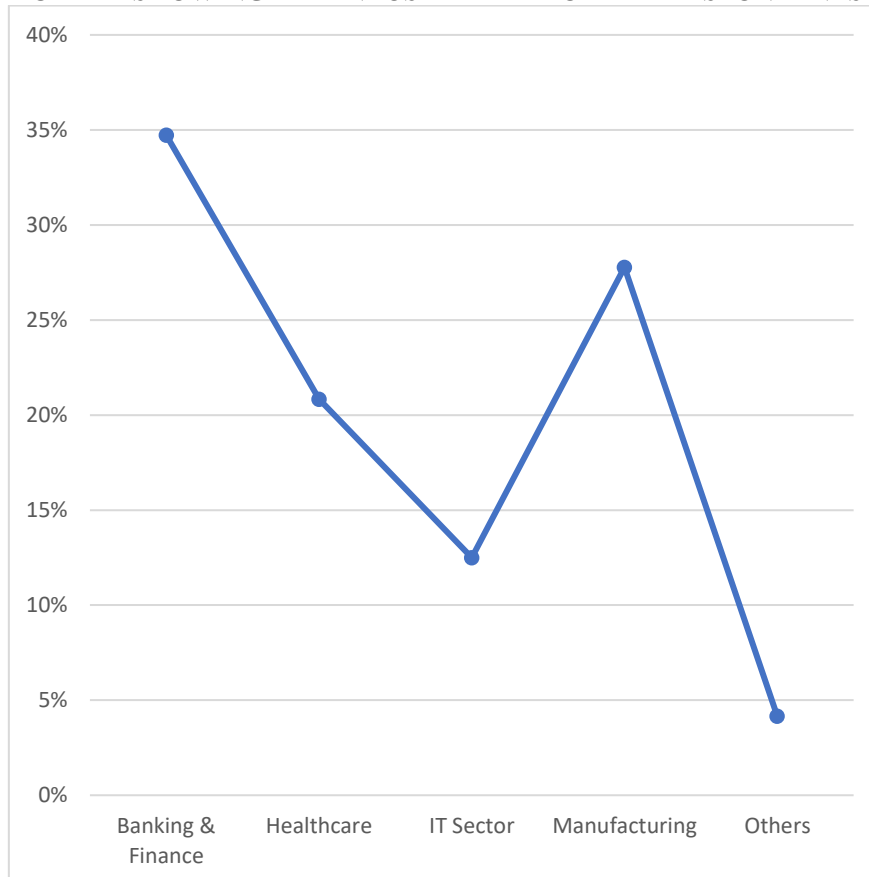
TABLE SHOWING THE INDUSTRY TYPE OF THE RESPONDENTS

INDUSTRY	NO OF RESPONDENTS	PERCENTAGE
Banking & Finance	25	35%
Healthcare	15	21%
IT Sector	9	13%
Manufacturing	20	28%
Others	3	4%
Grand Total	72	100%

INTERPRETATION

The table presents the industry type of the respondents. Out of the total **72 respondents**, the majority **25 respondents (35%)** belong to the **Banking & Finance sector**, making it the largest group in the study. **20 respondents (28%)** are from the **Manufacturing sector**, while **15 respondents (21%)** work in the **Healthcare sector**. **9 respondents (13%)** are from the **IT sector**, and **3 respondents (4%)** belong to **other industries**, representing the smallest proportion.

CHART SHOWING THE INDUSTRY TYPE OF THE RESPONDENTS



HYPOTHESIS

NULL HYPOTHESIS (H₀)

There is no significant relationship between the use of Artificial Intelligence and the effectiveness of Human Resource Management practices.



ALTERNATIVE HYPOTHESIS (H_i)

TABLE SHOWING THE AI WILL REPLACE TRADITIONAL HR ROLES OF THE RESPONDENTS

OPTIONS	NO.OF RESPONDENTS	PERCENTAGE
Maybe	15	21%
No	12	17%
Yes	45	63%
Grand Total	72	100%

INTERPRETATION

The table presents respondents' views on whether AI will replace traditional HR roles. Out of the total **72 respondents**, the majority **45 respondents (63%)** believe **Yes**, indicating that they think AI has the potential to take over conventional HR tasks. **15 respondents (21%)** responded **Maybe**, showing uncertainty about the extent of AI's impact. Only **12 respondents (17%)** believe **No**, suggesting that a small portion does not foresee AI replacing traditional HR roles.

**CHAPTER V
FINDINGS**

Artificial Intelligence (AI) plays an important role in the development of human resource (HR) management. AI helps in the automation of the hiring process, thus reducing the time taken for the hiring of employees. AI also helps in the training of employees and the evaluation of their performance. AI technology helps in the increased productivity of the HR department. Some organizations face challenges in the implementation of AI technology, mainly because of the lack of technical expertise and the high cost of implementation.

SUGGESTIONS

It is suggested that organizations use AI technology for the development of the HR department. It is also suggested that HR personnel are trained in the use of AI technology. The organization must ensure the security of the data from unauthorized access for the implementation of AI technology. The organization must implement AI technology gradually to avoid resistance.

CONCLUSION

Artificial Intelligence can be considered a key technology in modern Human Resource Management. Artificial Intelligence makes it possible to mechanize various aspects of HRM, improve decision-making, and manage people. The study has shown that Artificial Intelligence can be very useful in HRM, particularly in terms of recruiting, training, and appraising employees. Although various limitations have been noted in the use of Artificial Intelligence in HRM, its advantages outweigh its disadvantages. An organization can benefit from the use of Artificial Intelligence in its HRM.

REFERENCES

1. Deloitte. "AI-Powered Human Resources." Available at: <https://www2.deloitte.com>
2. McKinsey & Company. "Artificial Intelligence and the Future of HR." Available at: <https://www.mckinsey.com>

WEBSITE REFERENCES

1. <https://indiaai.gov.in/>
2. <https://www.hirevue.com>
3. <https://knockri.com/>