# A STUDY ON IMPACT OF ARTIFICIAL INTELLIGENCE ON HR RECRUITMENT PROCESS IN LEADTEQZ

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### 1. INTRODUCTION

The emergence of generative AI as a revolutionary force is destined to reshape the landscape of human resource management. This transformative technology is poised to automate mundane tasks, drive operational efficiency, and elevate the overall employee experience within HR recruitment processes. Delving into specific use cases of generative AI within HR contexts, this research aims to spotlight how its integration transcends traditional HR practices, facilitating data-driven decision-making and amplifying the recruitment experience. By automating resume screening, personalizing candidate interactions, and curating tailored training materials, generative AI exemplifies an organizational commitment to leverage transformative technologies, cultivating a sophisticated, data-driven, and candidate-centric recruitment ecosystem.

While the integration of generative AI in HR recruitment processes promises a paradigm shift towards efficiency and individualized candidate engagement, it also necessitates addressing potential challenges and ethical considerations. Rigorous validation, monitoring, and transparent communication are essential to ensure a fair, inclusive, and compliant recruitment process. As a comprehensive exploration, this research paper provides a comprehensive blueprint for organizations seeking to harness the transformative potential of generative

By embracing AI tools for automation, data analysis, and candidate matching, Leadteqz has experienced efficiency gains, reduced time-to-hire, and improved recruitment decision-making processes. This evolution is crucial for organizations to adapt to future trends, enhance recruitment outcomes, and maintain a competitive edge in the dynamic landscape of talent acquisition.

In conclusion, the integration of AI technologies in HR recruitment processes significantly impacts operations, enhances candidate matching, and improves operational efficiency. As Leadteqz adapts to the changing demands of the industry through AI integration, its capability to provide tailored and efficient recruitment services to its clients is amplified, ensuring it remains at the forefront of industry innovation.

#### 1.1 OBJECTIVES OF THE STUDY

- ✓ To study the impact on screening and training in recruitment process.
- ✓ To analyze and explore automation potential in HR practices.
- ✓ To investigate best HR practices in resource management.

#### 1.2 NEED FOR STUDY

- ❖ To understand the extent to which generative AI can automate HR recruitment processes.
- ❖ To determine the efficiency gains achievable through generative AI.
- ❖ To investigate how generative AI contributes to increased HR productivity.
- \* To identify ethical challenges associated with generative AI in HR recruitment process.
- ❖ To offer guidance for organizations adopting generative AI in HR recruitment.

#### 1.3 SCOPE OF THE STUDY

- ❖ To analyse AI tools' impact in candidate sourcing, screening, and selection
- \* To explore AI's organizational impact and adaptation in HR practices
- ❖ To assess ethical implications like data privacy and bias mitigation
- ❖ To provide actionable best practice recommendations for AI in HR
- ❖ To analyse long-term strategic alignment and innovation in talent acquisition
- To conduct a comparative analysis on AI's impact on HR practices, bridging technology with HR for a future-ready landscape

#### 2. REVIEW OF LITERATURE

# Chen, Q., & Wang, Y. (2021). "Innovative AI Solutions in HR Recruitment: Opportunities in Virtual Reality and Augmented Intelligence"

This study examines innovative AI solutions in HR recruitment, particularly focusing on the opportunities presented by virtual reality and augmented intelligence for immersive candidate experiences and advanced decision-making.

# Garcia, P., & Nguyen, T. (2022). "AI Adoption in HR Recruitment: A Comprehensive Industry Analysis"

This study provides a comprehensive industry analysis of the adoption of AI in HR recruitment, covering trends, challenges, and opportunities across diverse sectors and organizational contexts.

# Smith, J., & Brown, A. (2023). "The Psychological Impact of AI in HR Recruitment: Coping with Automation and Human-Supervised Algorithms"

This study investigates the psychological impact of AI in HR recruitment, discussing how employees cope with the transition towards automation and the increasing role of human-supervised algorithms.

# Wang, L., & Zhang, H. (2023). "The Emergence of Ethical AI Standards in HR Recruitment: Ensuring Accountability and Fairness"

This study explores the emergence of ethical AI standards in HR recruitment, focusing on the importance of accountability and fairness in the design and deployment of AI technologies.

#### 3. RESEARCH METHODOLOGY

#### 3.1 INTRODUCTION

**Research** is defined as human activity based on intellectual application in the investigation of matter. The primary purpose for applied research is discovering, interpreting, and the development of methods and systems for the advancement of human knowledge on a wide variety of scientific matters of our world and the universe.

#### 3.2 RESEARCH DESIGN

A research design is the arrangement of conditions for collection and analysis of data in a manner that aims to combine relevance to the research purpose with economy in procedure.

Descriptive approach is one of the most popular approaches these days. In this approach, a problem is described by the researcher by using questionnaire or schedule. This approach enables a researcher to explore new areas of investigation.

#### 3.3 SAMPLE SIZE

The sample size chosen for this study is 51 as instructed by the department.

# 3.4 SAMPLING TECHNIQUE

**Sampling** is that part of statistical practice concerned with the selection of individual observations intended to yield some knowledge about a population of concern, especially for the purposes of inference. In this study simple random sampling method is used in selecting the samples.

#### 3.4.1 DATA SOURCES

There are two types of data collection namely primary data collection and secondary data collection.

### 3.5 DATA COLLECTION METHOD

The data collection method used in this research is questionnaire method. Here the data are systematically recorded from the respondents.

#### 3.5.1 PRIMARY DATA

The primary data is defined as the data, which is collected for the first time and fresh in nature, and happen to be original in character through field survey.

#### 3.5.2 SECONDARY DATA

The secondary data are those which have already been collected by someone else and have been passed through statistical process.

### 3.6 RESEARCH TOOL

A structured questionnaire has been prepared to get the relevant information from the respondents. The questionnaire consists of a variety of questions presented to the respondents for their despondence.

#### 3.6.1 PERCENTAGE ANALYSIS

Percentage analysis is a crucial tool in data comparison. It quantifies the relationship between a specific value and the total value, expressing it as a ratio of parts per 100.

The formula for percentage analysis is:

Percentage = 
$$\left(\frac{\text{Value}}{\text{Total Value}}\right) \times 100\%$$

This formula encapsulates the essence of percentage analysis by providing a standardized approach to compare values within a dataset.

#### 3.6.2 REGRESSION

Regression is a statistical method used to examine the relationship between a dependent variable (Y) and one or more independent variables (X). It helps to understand how the value of the dependent variable changes when one or more independent variables change. The most common form of regression is linear regression, where the relationship is represented by a straight-line equation.

The formula for simple linear regression can be expressed as:

$$Y = \beta_0 + \beta_1 X + \varepsilon$$

#### 3.6.3 CORRELATION

Correlation Analysis is a statistical technique used to measure the magnitude of linear relationship between two variables. Correlation Analysis is not used in isolation to describe the relationship between variables. To analyze the relation between two variables, two prominent correlation coefficients are used – the Pearson product correlation coefficient and Spearman's rank correlation coefficient.

Correlation measures the strength and direction of a linear relationship between two quantitative variables. It is a measure of how changes in one variable are associated with changes in another variable.



The correlation coefficient, denoted by "r", ranges from -1 to +1, with -1 indicating a perfect negative correlation, +1 indicating a perfect positive correlation, and 0 indicating no correlation.

The formula for the correlation coefficient "r" is given by:

$$r = \frac{n(\sum XY) - (\sum X)(\sum Y)}{\sqrt{n(\sum X^2) - (\sum X)^2} \times \sqrt{n(\sum Y^2) - (\sum Y)^2}}$$

### 4. DATA ANALYSIS AND INTERPRETATION

#### REGRESSION

**Null Hypothesis** (**H0**): There is no significant relationship between critical factors influencing the decision to adopt AI-driven automation in HR departments and how HR professionals prioritize resource allocation in light of AI-driven insights and analytics.

**Alternative Hypothesis** (H1): There is a significant relationship between critical factors influencing the decision to adopt AI-driven automation in HR departments and how HR professionals prioritize resource allocation in light of AI-driven insights and analytics.

Variables Entered/Removed <sup>a</sup>					
		Variables			
Model	Variables Entered	Removed	Method		
1	VAR00004 <sup>b</sup>		Enter		
a. Dependent Variable: VAR00003					
b. All requested variables entered.					

Model Summary				
			Adjusted R	Std. Error of the
Model	R	R Square	Square	Estimate
1	.913ª	.833	.829	.467
a. Predictors: (Constant), VAR00004				

Coefficientsa						
				Standardized		
		Unstandardized Coefficients		Coefficients		
Model		В	Std. Error	Beta	t	Sig.
1	(Constant)	.733	.148		4.961	.000
	VAR00004	.859	.055	.913	15.621	.000
a. Dependent Variable: VAR00003						

#### **INFERENCE:**

From the above table it was found that the p value .000 which is lesser the 5% level of significance value (0.005) so we reject **Null Hypothesis** (**H0**) and accept **Alternative Hypothesis** (**H1**) which states There is a significant relationship between critical factors influencing the decision to adopt AI-driven automation in HR departments and how HR professionals prioritize resource allocation in light of AI-driven insights and analytics.

#### **CORRELATION**

#### AIM OF THE STUDY:

To find the relationship between the effectiveness of AI-based training solutions compared to traditional methods in preparing recruits for their roles, and they do not differ in their assessment of potential benefits and challenges of automating various HR practices using AI.

#### **HYPOTHESIS**

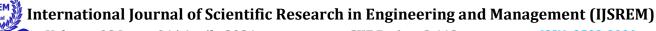
**Null Hypothesis** (**H0**): There is no relationship between the effectiveness of AI-based training solutions compared to traditional methods in preparing recruits for their roles, and they do not differ in their assessment of potential benefits and challenges of automating various HR practices using AI.

Alternative Hypothesis (H1): There is a relationship between the effectiveness of AI-based training solutions compared to traditional methods in preparing recruits for their roles, and they do not differ in their assessment of potential benefits and challenges of automating various HR practices using AI.

Correlations				
		VAR00001	VAR00002	
VAR00001	Pearson Correlation	1	177	
	Sig. (2-tailed)		.213	
	N	51	51	
VAR00002	Pearson Correlation	177	1	
	Sig. (2-tailed)	.213		
	N	51	51	

## **INFERENCE:**

From the above table it was found that the p value .213 which is higher the 5% level of significance value (0.005) so we accept **Null Hypothesis** (**H0**) and reject **Alternative Hypothesis** (**H1**) which states



**Volume:** 08 Issue: 04 | April - 2024 SJIF Rating: 8.448 ISSN: 2582-3930

There is no relationship between the effectiveness of AI-based training solutions compared to traditional methods in preparing recruits for their roles, and they do not differ in their assessment of potential benefits and challenges of automating various HR practices using AI.

# **CONCLUSION**

In a recent study at Leadteqz, the impact of Artificial Intelligence (AI) on HR recruitment processes was investigated, revealing valuable insights into the transformative potential of AI in HR practices. The research focused on three key objectives – Impact on Screening and Training in Recruitment Processes, Analysis and Exploration of Automation Potential in HR Practices, and Investigation of Best HR Practices in Resource Management. this study offered actionable suggestions for Leadteqz to leverage AI effectively in HR recruitment, encompassing AI-driven screening and training tools, bias reduction and diversity initiatives, automation exploration, and personalized candidate experiences.

In conclusion, the study offered a comprehensive understanding of AI's transformative impact on HR recruitment practices and set a foundation for Leadteqz to further optimize AI in HR processes. The research positioned Leadteqz at the forefront of innovation, poised to navigate the dynamic intersection of human resource management and technological advancements effectively.

#### REFERENCES

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