

# The Adoption and Effectiveness of Artificial Intelligence in Employee Support Service

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## ABSTRACT

This study examines the adoption and effectiveness of Artificial Intelligence (AI) in employee support services. By integrating AI-powered tools like chatbots, automated assistance systems, and predictive analytics, the company aims to enhance service delivery, improve employee satisfaction, and optimize operational efficiency. The research utilizes surveys and interviews with 125 employees alongside secondary data from industry reports and academic studies. Analytical methods such as descriptive analysis, Chi-Square tests and ANOVA reveal no significant gender-based differences in AI perception, indicating a consistent user experience. Employees reported improvements in HR information access, reduced response times, and enhanced onboarding experiences. However, challenges such as employee resistance, data privacy concerns, and technical limitations were identified. To mitigate these issues, the study recommends comprehensive employee training, a hybrid AI-human support model, robust data security measures, and ongoing AI performance evaluations. These insights provide a valuable framework for organizations looking to leverage AI to improve employee support services and achieve operational growth.

## INTRODUCTION

The increasing use of Artificial Intelligence (AI) in businesses is revolutionizing several aspects of operations, particularly in the realm of employee support services. AI has been particularly transformative in automating repetitive tasks, enhancing decision-making processes, and improving overall service delivery. In today's fast-paced business environment, organizations are constantly seeking innovative solutions to optimize workforce management, improve employee satisfaction, and reduce operational costs. Employee support services are crucial for maintaining a productive workforce, addressing employee queries, and ensuring smooth organizational operations. AI has the potential to enhance these services by integrating chatbots, automated

assistance systems, and predictive analytics, which could significantly reduce the workload of human resources and improve service quality. However, the adoption and effectiveness of AI in this domain are still areas of growing research.

This study aims to explore the adoption of AI in employee support services and assess its effectiveness in enhancing service quality, employee satisfaction, and organizational productivity. By analyzing the integration of AI, this study will offer insights into the challenges, benefits, and potential improvements in employee support systems through technology. By evaluating the effectiveness of AI in improving service quality, the study will offer recommendations for enhancing AI-based support systems. Ultimately, the findings will contribute to the broader understanding of AI adoption in employee support services, aiding other organizations in making informed decisions on AI integration.

## **STATEMENT OF THE PROBLEM**

Many organizations, is exploring AI as a tool to improve its employee support services. While there is a growing interest in AI, it remains unclear how effectively AI can be integrated into employee support services and whether its adoption truly benefits organizations in terms of employee satisfaction, engagement, and operational efficiency. Despite AI's rapid adoption in various sectors, the effectiveness of AI tools in the HR and employee support domains is still under research.

This study seeks to address the gaps in understanding how AI adoption in employee support services can lead to measurable improvements in operational outcomes, employee satisfaction, and overall efficiency. The research will examine factors such as the ease of adoption, the challenges faced during implementation, and the effectiveness of AI tools in handling employee inquiries, processing requests, and providing timely assistance.

## **SCOPE OF THE STUDY**

The scope of this study will be focusing on its AI adoption in the employee support service area. The study will explore how AI tools are implemented to support employees in resolving issues related to HR, IT services, payroll, benefits, and other employee-related queries. It will focus on the integration of AI systems like chatbots, automated assistants, and data-driven decision-making tools that are specifically aimed at improving employee support functions. The research will assess the effectiveness of these AI tools in enhancing the user experience, reducing response time, improving resolution rates, and increasing employee

satisfaction. Furthermore, it will examine the challenges faced by the organization in integrating AI into employee support services and how these challenges are being overcome. The study will be conducted over six months and will target both employees and management to gather insights on the system's impact.

## **OBJECTIVES OF THE STUDY**

- To study on socio-economic of an employee.
- To improve access to HR information and policy.
- To reduce IT support response time and improve resolution rates.
- To enhance the onboarding experience and reduce employee turnover.

## **RESEARCH METHODOLOGY**

This study will use both primary and secondary data to explore the adoption and effectiveness of AI in employee support services.

## **SOURCE OF DATA**

### **Primary Data:**

Primary data will be collected through surveys and interviews with employees, managers, and HR personnel. These surveys will focus on their experiences with AI-powered support tools, satisfaction levels, challenges faced, and the perceived impact of AI on their work.

### **Secondary Data:**

Secondary data will be collected from existing academic research, industry reports, case studies, and articles that discuss AI adoption in HR and employee support services.

## **SAMPLE SIZE**

The study will target 125 employees to ensure a comprehensive understanding of both the employee and management perspectives on AI integration.

## SAMPLING TECHNIQUE

A simple random sampling method will be used to select employees and managers from various departments to ensure a diverse range of opinions.

## TOOLS USED FOR ANALYSIS

**Chi-Square Test:** To identify if there are any significant relationships between AI adoption and employee satisfaction.

**Anova:** Analysis of variance (ANNOVA) is a statistical formula used to compare variances across the mean (or average) of different groups.

## CHI-SQUARE TEST

### EFFECTIVENESS OF AI IN DELIVERING HR-RELATED INFORMATION

FACTOR	CALCULATED VALUE	TABLE VALUE	DF	REMARKS
AI provides accurate HR-related information when requested.	2.826	9.488	4	Significance at 5% level.
The AI system responds to HR queries in a timely manner.	4.690	9.488	4	Significance at 5% level.
The AI system is easy to use for accessing HR-related information	1.687	9.488	4	Significance at 5% level.

AI delivers personalized HR information tailored to my specific needs and queries.	6.259	9.488	4	Significance at 5% level.
The AI system provides clear and understandable answers to HR-related questions	1.632	9.488	4	Significance at 5% level.
I feel confident relying on AI for accurate HR-related information.	4.712	9.488	4	Significance at 5% level.
AI helps reduce the time spent seeking HR-related information compared to traditional methods.	.902	9.488	4	Significance at 5% level.
The AI system is consistently up-to-date with the latest HR policies and information.	2.169	9.488	4	Significance at 5% level.
AI is effective at providing HR-related information without human intervention.	.597	9.488	4	Significance at 5% level.
AI improves my overall experience in accessing HR-related information.	2.789	9.488	4	Significance at 5% level.

**INTERPRETATION:**

The analysis shows no significant gender-based differences in the perception of AI's effectiveness in delivering HR-related information, with all calculated values below the table value of 9.488 at a 5% significance level. Both genders view AI as accurate, timely, easy to use, and reliable for accessing HR data. This suggests that AI provides an inclusive and consistent user experience across genders.

**ANOVA**

**THE IMPACT OF AI ON EMPLOYEES EMPOWERMENT**

Factors		Sum of Squares	Df	Mean Square	F	Sig.
Decision making	Between Groups	4.771	3	1.590	2.738	.047
	Within Groups	67.973	117	.581		
	Total	72.744	120			
Manage work	Between Groups	.827	3	.276	.473	.701
	Within Groups	68.164	117	.583		
	Total	68.992	120			
Access to information	Between Groups	1.895	3	.632	.870	.459
	Within Groups	68.164	117	.583		
	Total	68.992	120			
Accomplish task	Between Groups	.750	3	.250	.338	.798
	Within Groups	86.572	117	.740		
	Total	87.322	120			

Solve problem at work	Between Groups	1.732	3	.577	.838	.476
	Within Groups	80.599	117	.689		
	Total	82.331	120			
Focus and impactful work	Between Groups	.279	3	.093	.122	.947
	Within Groups	88.895	117	.760		
	Total	89.174	120			
Control to complete task	Between Groups	.537	3	.179	.234	.872
	Within Groups	89.348	117	.764		
	Total	89.884	120			
Flexible work environment	Between Groups	.637	3	.212	.262	.853
	Within Groups	94.719	117	.810		
	Total	95.355	120			
Culture of innovation and creativity	Between Groups	.101	3	.034	.039	.990
	Within Groups	100.511	117	.859		
	Total	100.612	120			
Better collaboration	Between Groups	1.461	3	.487	.605	.613
	Within Groups	94.142	117	.805		
	Total	95.603	120			

## **INTERPRETATION:**

The analysis shows no significant gender-based differences in the perception of AI's effectiveness in delivering HR-related information across most factors. Both genders view AI similarly in managing work, accessing information, problem-solving, task completion, collaboration, and fostering innovation. However, a significant difference is observed in decision-making, indicating varied perceptions in this area. Overall, AI is generally seen as an equitable and effective tool.

## **FINDINGS**

### CHI-SQUARE ANALYSIS:

The inference from the analysis is that AI systems are perceived as equally effective in delivering HR-related information across genders, indicating no significant gender-based differences in user experience

### ANOVA:

The inference from the analysis is that AI is generally perceived as effective and equitable in delivering HR-related information across genders, with the exception of decision-making, where perceptions differ significantly

## **SUGGESTION:**

- ✓ **Enhance Employee Training & Awareness** – Conduct regular training programs to help employees understand and effectively use AI-powered support tools, reducing resistance to adoption.
- ✓ **Implement a Hybrid AI-Human Model** – Combine AI-driven automation with human expertise to handle complex queries and provide personalized employee support.

- ✓ **Strengthen Data Security & Privacy Measures** – Ensure robust cybersecurity protocols and compliance with data protection regulations to build employee trust in AI systems.
- ✓ **Continuously Improve AI Systems** – Regularly update AI models with new data and employee feedback to enhance accuracy, efficiency, and user experience.
- ✓ **Monitor & Evaluate AI Performance** – Establish key performance indicators (KPIs) to measure AI's effectiveness in improving response times, query resolution, and overall employee satisfaction.

## CONCLUSION:

In conclusion, the adoption of AI in employee support services at RND Softech has demonstrated significant potential in enhancing efficiency, streamlining HR and IT operations, and improving overall employee satisfaction. AI-powered tools such as chatbots, virtual assistants, and predictive analytics have contributed to faster query resolution, reducing the workload on human support teams. However, challenges such as employee resistance, data privacy concerns, and technical limitations must be addressed for successful implementation. A hybrid approach, combining AI automation with human interaction, can help overcome these challenges while maintaining a balance between efficiency and personalized support. Continuous AI improvements, employee training, and data security enhancements will be essential to maximizing the benefits of AI in employee support services, ensuring long-term success and organizational growth.