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EMPLOYEE WELL-BEING IN THE AGE OF AI: PERCEPTIONS, CONCERNS, BEHAVIORS, AND OUTCOME

Dr Mohan Lal Dhaka[1], M. Harisha[2] and Dr Surendar Gade[3]
[1]Professor, Department of Commerce and Business Management Niilm University, Haryana
[2]Research Scholar, Department of Management, Niilm University, Haryana
[3]Co. Supervisor & Assistant Professor, School of Commerce, NMIMS Deemed to be University, Hyderabad

ABSTRACT
This study examines the impact of Artificial Intelligence (AI) adoption on employee well-being in the retail sector of Hyderabad city, based on survey data collected from 120 retail employees. As AI technologies are increasingly used for inventory management, automated customer service, performance monitoring and scheduling, the research explores employees' perceptions, concerns, behavioural responses and overall well-being outcomes. Using a structured questionnaire and descriptive statistical analysis, the findings reveal a dual impact of AI: while a majority of respondents reported improved efficiency, reduced routine workload and enhanced job satisfaction, a significant proportion expressed concerns regarding job insecurity, reduced autonomy and data privacy, which were associated with higher stress levels. The study further indicates that transparent communication, employee involvement and adequate training positively influence acceptance of AI and improve well- being outcomes. The findings contribute to the growing body of literature on AI in human resource management by highlighting the importance of people-centric implementation strategies in enhancing employee well-being within the retail market context.

Keywords: *Artificial Intelligence (AI); Employee Well-Being; Retail Sector; Human Resource Management*

INTRODUCTION
The rapid advancement of Artificial Intelligence (AI) technologies has brought a fundamental shift in the way organizations operate across various industries, with the retail sector being one of the most significantly impacted. AI-driven applications such as predictive analytics, automated inventory management, intelligent customer relationship systems, workforce scheduling tools, sales forecasting models, and performance monitoring systems are increasingly being integrated into retail operations. These technologies enable organizations to enhance efficiency, reduce operational costs, improve accuracy, and deliver personalized customer experiences, thereby strengthening their competitive advantage in a dynamic market environment. However, alongside these organizational benefits, AI adoption is also reshaping the nature of work, job roles, and employee experiences, making its impact on employee well-being an important area of academic and practical concern.

Employee well-being, which encompasses psychological, emotional, and social health, is widely recognized as a critical determinant of organizational success and sustainability. A workforce that experiences higher levels of well-being tends to demonstrate greater productivity, stronger engagement, improved job satisfaction, and higher retention rates. In contrast, poor well-being can lead to stress, burnout, absenteeism, and reduced performance. In the context of AI-driven workplaces, well-being is no longer influenced solely by traditional organizational factors such as workload and leadership but is also shaped by employees' interactions with intelligent technologies. As AI systems increasingly participate in decision-making and monitoring functions, they influence employees' sense of control, autonomy, and job security, thereby directly affecting their overall workplace experience.

In the specific context of Hyderabad city, which represents one of India's rapidly growing retail markets characterized by a mix of organized retail chains and unorganized local businesses, the adoption of AI technologies is gaining significant momentum. Retail organizations in this region are leveraging AI to streamline operations, enhance customer engagement, and manage large volumes of data efficiently. However, the workforce in Hyderabad's retail sector is diverse in terms of skills, education levels, and technological exposure, which may lead to varied perceptions and responses to AI implementation. While some employees may view AI as a valuable tool that simplifies tasks and supports decision- making, others may perceive it as a threat to job stability and career growth.

These contrasting perceptions give rise to both positive and negative outcomes for employee well-being. On the positive side, AI can reduce repetitive and physically demanding tasks, minimize human error, and provide decision-support systems that enhance employee confidence and efficiency. Such benefits can contribute to increased job satisfaction, motivation, and engagement. On the negative side, concerns related to job displacement, lack of transparency in algorithmic decision-making, reduced human interaction, loss of

autonomy, and increased workplace surveillance can create anxiety, stress, and feelings of insecurity among employees. These challenges highlight the complex and dual nature of AI's impact on the workforce.

Furthermore, employees' behavioral responses to AI adoption play a crucial role in determining its overall impact. Employees who adopt a proactive approach by developing new skills, embracing technological change, and actively engaging with AI systems are more likely to experience positive outcomes. Conversely, employees who resist or feel overwhelmed by technological changes may experience decreased morale and well-being. Therefore, understanding the interplay between employee perceptions, concerns, behaviors, and well-being outcomes is essential for organizations aiming to successfully implement AI technologies.

Given these dynamics, there is a growing need to examine the human side of AI adoption, particularly in emerging retail markets such as Hyderabad. This study aims to analyze the influence of AI adoption on employee well-being by exploring how employees perceive AI, the concerns they experience, the behaviors they exhibit, and the resulting outcomes on their well-being. Based on responses from 120 retail employees, the study seeks to provide a comprehensive understanding of both the positive and negative implications of AI integration.

REVIEW OF LITERATURE

The growing integration of Artificial Intelligence (AI) in Human Resource Management has attracted considerable academic attention in recent years. Scholars have explored how AI-driven technologies are reshaping recruitment, performance management, workforce planning and employee engagement practices. Vrontis et al. (2022) observed that AI and advanced technologies are transforming HR functions by enhancing strategic decision-making and operational efficiency, while also emphasizing the need for ethical governance. Similarly, Budhwar et al. (2022) highlighted both the opportunities and challenges AI presents for HRM, stressing that organizations must balance technological advancement with employee-centered policies.

Jarrahi (2018) introduced the concept of human–AI symbiosis, arguing that AI systems are most effective when they complement human intelligence rather than replace it. This perspective is supported by Wilson and Daugherty (2018), who emphasized the importance of developing "fusion skills" to enable successful collaboration between humans and machines. Davenport and Ronanki (2018) further noted that while AI adoption leads to productivity improvements, employee resistance and implementation challenges remain common barriers.

From an employee well-being perspective, Sadeghi (2024) examined perceptions, concerns and behavioral responses in AI-enabled workplaces, concluding that transparency and communication significantly influence psychological outcomes. Brougham and Haar (2018) found that perceptions of technological automation can increase job insecurity and workplace anxiety, particularly when employees fear job displacement. Tarafdar et al. (2019) discussed the concept of technostress, explaining how excessive reliance on digital systems and monitoring tools can negatively affect mental well-being. Valtonen et al. (2025) define employee well-being as how individuals feel and function at work, influenced by technology, job design, and organizational practices.

Nazareno & Schiff (2021) (as cited in later reviews) argue that technological disruption, especially AI, significantly alters work conditions and employee experiences. Research on HR analytics and digital transformation also contributes to understanding AI's impact on employees. Marler and Boudreau (2017) emphasized the role of HR analytics in evidence-based decision-making, while cautioning against over-dependence on algorithmic judgments. Strohmeier (2020) clarified the concept of digital HRM and highlighted concerns related to fairness, privacy and data protection. Parry and Battista (2019) examined emerging technologies in HR and stressed that employee experience must remain central during digital transitions.

Giuntella et al. (2025) acknowledge these concerns but suggest that empirical evidence on the negative effects of AI on well-being remains limited. Additionally, AI-driven surveillance systems have raised significant ethical and psychological concerns, as constant monitoring can lead to increased stress, reduced autonomy, and feelings of distrust (Mantello et al., 2023). Work intensification is another critical issue, with AI systems often increasing performance expectations and cognitive demands, thereby contributing to emotional exhaustion and burnout (Technovation, 2026).Employee behaviors in response to AI implementation further shape well-being outcomes. Employees may exhibit a range of reactions, including resistance, adaptation, or proactive skill development, depending on their perceptions of AI and the level of organizational support provided. Sadeghi (2024) notes that when employees perceive AI as a threat, they are more likely to resist its adoption, whereas supportive environments and effective communication can encourage adaptive behaviors and learning. Similarly, Golgeci et al. (2025) highlight that uncertainty and fear associated with AI can trigger defensive behaviors, which may hinder both individual performance and organizational effectiveness.

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Malik et al. (2021) reported that AI-enabled systems can enhance personalized employee experiences and improve engagement when perceived as fair and supportive. Li et al. (2021) found that automation of repetitive tasks positively influences job satisfaction when accompanied by adequate training and skill development. Upadhyay and Khandelwal (2018) argued that organizational readiness and cultural adaptability are critical for successful AI implementation. Gallivan et al. (2020) emphasized the importance of change management practices to reduce employee resistance toward new technologies.

Furthermore, AI-driven tools can support mental health initiatives by providing personalized interventions and monitoring well-being indicators (García-Madurga et al., 2024). However, negative outcomes such as increased stress, reduced social interaction, and diminished autonomy are also widely reported. The Technovation (2026) review indicates that mental and relational aspects of well-being are particularly vulnerable in AI-driven workplaces, as increased reliance on technology may weaken interpersonal connections.

The relationship between AI and employee well-being can be better understood through theoretical frameworks such as the Job Demands–Resources (JD-R) model, which suggests that AI simultaneously increases job demands (e.g., complexity, monitoring) and job resources (e.g., efficiency, support tools). An imbalance between these demands and resources can lead to burnout or, alternatively, enhanced engagement depending on how AI is implemented (Technovation, 2026). Additionally, the Human–AI interaction framework proposed by Sadeghi (2024) links employee perceptions and concerns to behavioral responses and well-being outcomes, providing a comprehensive understanding of how AI influences workplace experiences.

The rapid advancement of artificial intelligence (AI) technologies has significantly transformed the modern workplace, reshaping how tasks are performed, decisions are made, and employees interact with their work environment. AI systems, including machine learning, automation, and intelligent decision-support tools, are increasingly being integrated across industries to enhance efficiency, productivity, and organizational performance. While these technological innovations offer numerous advantages, they also introduce profound changes to job roles, skill requirements, and workplace dynamics. As a result, understanding their implications for employee well-being has become a critical concern for researchers and practitioners alike.

RESEARCH METHODOLOGY

This study adopts a quantitative and descriptive research design to systematically examine the impact of Artificial Intelligence (AI) adoption on employee well-being within the retail sector of Hyderabad city. A quantitative approach is considered appropriate for this research as it enables the collection of measurable data and facilitates statistical analysis to identify patterns, relationships, and the strength of associations between variables. The descriptive design further supports the study by providing a clear understanding of employees' perceptions, concerns, and behavioral responses toward AI, as well as their overall well-being in the workplace, without manipulating any variables.

The study is primarily based on primary data collected directly from retail employees working in Hyderabad. A structured questionnaire was developed as the main data collection instrument, ensuring consistency and reliability in responses. The questionnaire was divided into two main sections. The first section captured demographic information such as age, gender, educational qualification, job role, and work experience, which helps in understanding the background characteristics of the respondents. The second section focused on key constructs of the study, including AI perceptions, AI-related concerns, behavioral responses to AI, and employee well-being outcomes. These constructs were measured using multiple items on a five-point Likert scale ranging from "strongly disagree" to "strongly agree," allowing respondents to express the intensity of their opinions in a standardized manner.

AI perception items were designed to assess how employees view the usefulness, fairness, and effectiveness of AI technologies in their workplace. AI-related concerns included factors such as job insecurity, fear of automation, lack of transparency, and perceived loss of control. Behavioral responses captured how employees react to AI adoption, including their willingness to learn new skills, adapt to technological changes, or resist implementation. Employee well-being outcomes were measured through indicators such as job satisfaction, stress levels, and work engagement, providing a comprehensive view of employees' psychological and emotional states.

A total of 120 respondents were selected using convenience sampling, primarily from organized retail outlets in Hyderabad. This sampling technique was chosen due to accessibility and time constraints, enabling the researcher to gather relevant data efficiently. Although convenience sampling may limit the generalizability of

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the findings, it is suitable for exploratory studies and provides valuable initial insights into the research problem. Efforts were made to include respondents from diverse roles and backgrounds within the retail sector to enhance the representativeness of the sample.

For data analysis, both descriptive and inferential statistical techniques were employed. Descriptive statistics, including mean, percentage, and standard deviation, were used to summarize the demographic characteristics of the respondents and provide an overview of their responses to various constructs. Regression analysis was conducted to examine the relationships between AI adoption variables (perceptions, concerns, and behavioral responses) and employee well-being outcomes. This method helps in identifying the extent to which independent variables influence dependent variables and determines the direction and significance of these relationships.

DATA ANALYSIS

Demographic Profile of Respondents (N = 120)

The demographic characteristics of the respondents were analyzed using descriptive statistics and are presented in the table below.

Table 1: Demographic Profile of Retail Employees

Variable	Category	Frequency	Percentage (%)
Gender	Male	70	58.3
	Female	50	41.7
Age	20–25 years	35	29.2
	26–30 years	40	33.3
	31–35 years	25	20.8
	Above 35 years	20	16.7
Education	Intermediate/Diploma	28	23.3
	Undergraduate	54	45.0
	Postgraduate	38	31.7
Work Experience	Below 2 years	30	25.0
	2–5 years	48	40.0
	6–10 years	27	22.5
	Above 10 years	15	12.5

The demographic analysis shows that the majority of respondents are male (58.3%), while female employees constitute 41.7% of the sample. Most participants fall within the age group of 26–30 years (33.3%), followed by 20–25 years (29.2%), indicating a relatively young workforce in the retail sector of Hyderabad.

In terms of educational qualification, a large proportion of respondents are undergraduates (45%), followed by postgraduates (31.7%), suggesting a moderately educated workforce. Regarding work experience, the majority have between 2–5 years of experience (40%), reflecting a workforce with moderate exposure to retail operations and AI-enabled systems.

Table 2: Descriptive Statistics of Study Variables (N = 120)

Variable	Mean	Standard Deviation
AI Perception (Efficiency & Fairness)	3.78	0.64
AI Concerns (Job Insecurity & Privacy)	3.42	0.71
Behavioral Response (Adaptation & Upskilling)	3.65	0.68
Employee Well-Being	3.59	0.62

The mean score for AI perception (3.78) indicates that respondents generally hold a positive view regarding AI efficiency and fairness in retail operations. AI-related concerns show a moderate mean value (3.42), suggesting that employees experience noticeable but manageable concerns related to job security and privacy. Behavioral responses such as adaptation and upskilling also reflect a relatively positive tendency (mean = 3.65), indicating that many employees are willing to adjust to AI integration. The overall employee well-being mean score (3.59) suggests a moderately positive well-being level among retail employees in Hyderabad.

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HYPOTHESIS TESTING

H_0 (Null Hypothesis): Artificial Intelligence perception, AI-related concerns, and behavioral response have no significant impact on employee well-being among retail employees in Hyderabad city.

Table 3: Regression Results

Independent Variable	Beta Coefficient	t-value	Significance (p-value)
AI Perception	0.41	4.82	0.000
AI Concerns	-0.29	-3.67	0.001
Behavioral Response	0.36	4.15	0.000
R^2	**0.58**		
F-value	**52.34**		0.000

The regression model is statistically significant ($F = 52.34$, $p < 0.001$), explaining 58% of the variance in employee well-being ($R^2 = 0.58$), which indicates a strong model fit. AI perception shows a positive and significant influence on employee well-being ($\beta = 0.41$), meaning that favorable perceptions of AI improve job satisfaction and psychological comfort. Behavioral response also has a positive and significant impact ($\beta = 0.36$), suggesting that employees who actively adapt and upskill experience higher well-being. However, AI concerns demonstrate a negative and significant relationship ($\beta = -0.29$), indicating that higher levels of job insecurity and privacy concerns reduce employee well-being.

Overall, the findings suggest that while AI adoption can enhance employee well- being, its success largely depends on reducing employee concerns and encouraging adaptive behaviors in the retail sector of Hyderabad city.

DISCUSSION

The findings of this study reveal that Artificial Intelligence (AI) adoption has a significant impact on employee well-being in the retail sector of Hyderabad city. The regression results indicate that AI perception and behavioral response positively influence employee well-being, while AI-related concerns negatively affect it. These findings are consistent with existing literature which suggests that technology adoption produces both enabling and challenging outcomes for employees.

The positive relationship between AI perception and employee well-being indicates that when employees view AI systems as efficient, fair, and supportive, they experience higher job satisfaction, engagement, and psychological comfort. In the retail context, AI tools that reduce repetitive tasks and improve operational accuracy appear to contribute positively to employees' work experiences. Similarly, behavioral responses such as adaptation and upskilling significantly enhance well-being, suggesting that employees who actively embrace AI integration are better positioned to benefit from technological advancements.

However, the negative impact of AI-related concerns highlights the psychological challenges associated with technological change. Concerns about job insecurity, data privacy, and loss of autonomy were found to reduce well-being levels. This suggests that without proper communication and employee involvement, AI implementation may create stress and anxiety among retail employees. The model explaining a substantial proportion of variance in employee well-being further confirms that AI-related factors play a crucial role in shaping workplace experiences.

Overall, the findings emphasize that AI itself is neither entirely beneficial nor harmful; rather, its impact depends largely on organizational practices, transparency, and support mechanisms provided to employees.

CONCLUSION

The present study provides meaningful insights into the growing relationship between Artificial Intelligence (AI) adoption and employee well-being within the retail market of Hyderabad city. Based on responses from 120 employees, the findings clearly indicate that AI is not merely a technological tool but a transformative force that significantly influences employees' psychological and behavioral experiences in the workplace. The results reveal that positive perceptions of AI, along with adaptive behavioral responses, play a crucial role in enhancing employee well-being, while concerns related to AI adoption—such as job insecurity, lack of transparency, and fear of skill obsolescence—tend to negatively affect it.

A key conclusion of this study is that employee perception acts as a foundational factor in determining the overall impact of AI on well-being. When employees perceive AI as supportive, fair, and beneficial to their work, they are more likely to experience reduced stress, higher job satisfaction, and improved engagement. These positive perceptions encourage employees to embrace AI technologies, view them as opportunities for

growth, and integrate them effectively into their daily tasks. On the contrary, when AI is perceived as a threat—particularly in terms of job displacement or excessive monitoring—it can lead to anxiety, resistance, and decreased morale, ultimately diminishing well-being.

Another important finding is the role of employee behavior in shaping outcomes. Adaptive behaviors, such as willingness to learn new skills, openness to change, and proactive engagement with AI systems, significantly contribute to improved well-being. Employees who actively adapt to technological changes tend to feel more competent, secure, and confident in their roles. This highlights the importance of fostering a growth-oriented mindset among employees, where continuous learning and development are encouraged. In contrast, resistance or avoidance behaviors, often driven by fear and uncertainty, can hinder both individual performance and organizational effectiveness.

The study also emphasizes that AI-related concerns remain a major barrier to achieving positive well-being outcomes. Issues such as lack of clarity about AI implementation, insufficient training, and fear of job loss can create a sense of uncertainty among employees. These concerns not only affect mental health but also reduce trust in the organization. Therefore, addressing these challenges is essential for ensuring that AI adoption does not negatively impact the workforce.

From a managerial perspective, the findings underscore the importance of implementing AI in a people-centric manner. Retail organizations must go beyond mere technological investment and focus on strategic human resource practices that support employees throughout the transition. Transparency in communication about AI goals, processes, and implications is critical in building trust and reducing fear. Additionally, providing adequate training and upskilling opportunities can empower employees to adapt to new technologies and enhance their sense of job security.

Furthermore, encouraging employee participation in the AI adoption process can foster a sense of ownership and inclusion. When employees are involved in decision-making and implementation, they are more likely to develop positive attitudes toward AI and exhibit supportive behaviors. Organizations should also create a supportive work environment that prioritizes mental well-being, ensuring that technological advancements do not come at the cost of employee health.

In conclusion, this study highlights that the successful integration of AI in the retail sector depends on achieving a balance between technological advancement and human well- being. By addressing employee concerns, promoting positive perceptions, and encouraging adaptive behaviors, organizations can not only enhance operational efficiency but also create a healthier, more engaged, and resilient workforce.

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