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Abstract

In today's rapidly changing technology, organizations tend to adapt to new technologies to stay up in the market; the incorporation of AI into HR practices has become the new trend in all the organizations. This intersection is reshaping how organizations drive employee performance. AI offers new ways to evaluate employee performance without any bias, new training and development programs, and also personalized feedback to employees. It also helps in recruitment and in performance appraisal. Traditional HR practices have biased evaluation and a slow process of analyzing the employee performance. This paper examines the transformation in HR practices with AI tools that provide better results in employee performance, positioning AI-enabled HR practices as the independent variable influencing employee performance, which serves as the dependent variable. Furthermore, it identifies HR processes as the key mediating factor in this relationship, acting as the channel through which AI's impact on employee performance is realised. This paper also argues that the effective intersection of AI and HR requires a balance between technology and a human touch, ensuring that technological advancements empower rather than diminish the human experience at work.

Keywords: HR practices, Digital transformation, Artificial Intelligence, Employee Performance, AI-based recruitment, HR technology transformation, Employee Evaluation

Introduction

In recent years there has been rapid growth and changes in the organization. Organizations are struggling to fit in the environment, to develop remote work trends, and to meet the rising expectations of employees, who seek growth in their own roles. Employees are very important to the organization; they are not just machines who work hard, they play the vital role in the development of the organization, just like a human heart.

As companies and jobs become more challenging and dynamic, ensuring each employee is working at their best is a growing challenge. The traditional HR practices like annual appraisals, training modules, and the traditional development plans often failed to identify each individual's greatest strengths, ambitions, and potential. Leaders increasingly wonder: how can we develop, inspire, and support our people in a way that respects their individuality

Artificial Intelligence sounds like emotionless robots or computers replacing people. But the actual potential of AI is not to replace people but to empower and enhance them. When well-designed, AI can be a great partner in listening, learning, and providing insights, enabling HR professionals to personalize experiences for each and every employee. Imagine immediate feedback for an employee to develop, giving suggestions that assist the growth of the employee, and a biasfree evaluation of the employee, which reduces the unconscious bias in the organization.

This transformation of AI is not about destroying the human touch but about preparing HR to be more compassionate and professional in the work they do. This research examines how AI-enabled HR practices, serving as the independent variable, influence employee performance as the dependent variable, with HR processes acting as the key mediating factor in this relationship. This research aims to explore whether AI and HR, in combination, can unlock employee

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performance, both high-tech and human. We see not only the power of these new tools but also the challenges and responsibility involved in bringing AI into the fabric of people management.

Review of literature

Ernest Jebolise Chukwuka, Kashiari Esther Dibie 2024 Modern organizations are becoming aware of the amount of time spent on conventional human resource (HR) methods, particularly performance appraisals. A study has revealed that some companies spend more than two million work hours annually alone on assessing employees manually. However, this extensive expenditure of time does not always yield correct outcomes since performance appraisals tend to be overly dependent on human judgment, memory, and personal bias. This is where Artificial Intelligence (AI) is slowly starting to impact. Rather than waiting for an annual planned appraisal, AI-driven systems can monitor employees' performance on an ongoing basis. Organizations can reward excellent performance instantly or offer timely feedback when goals are not being achieved. In so doing, AI removes some of the volatility and lag associated with conventional appraisals.

Dr. P Naresh Kumar, Dr. L Madan Mohan, Dr.M. Satya Shivalini, 2024. This study provides the investigation on the application of AI-based metrics for assessing employee performance. Traditional performance ratings and personal feedback have always been at the core for the quality circles, the team groups to make continuous improvement. This research attempts to examine the ways advanced analytics driven by artificial intelligence can provide more accurate and actionable insights into labor performance to further improve quality control outcomes. Data were collected for six months from a medium-sized manufacturing company using a mixed-methods design. During the period, machine learning algorithms and natural language processing, two components of artificial intelligence, were used. The figures indicate quality control efficiency improved by 20%, as expressed by the enhanced rate of proposal implementation and the increased levels of job satisfaction. Analytics with the capacity for artificial intelligence can recognize the trend of performance and root causes for past missed defects. This enabled the quality control team to correct problems better and with greater intensity. Firms aiming to achieve greater performance and continued improvement should adopt AI tools, as this research indicates the potential of AI technologies to overhaul traditional quality control methods

LRK Krishnan, Praveen K & Poorani S 2024, examines the effect of AI on enhanced HR effectiveness and workforce satisfaction. This study elucidated in terms of a comprehensive comprehension of the results and the possible benefits of incorporating AI-based solutions in HR services vice delivery by analyzing the integrated application of AI technology in recruiting, onboarding, performance Management, and skill development. A comprehensive analysis of the effects of artificial intelligence (AI) technology integration within organizational performance and worker experience is discussed in this study. The inspection offers useful perspective for the companies looking to integrate AI in the human resource development for enhanced employee performance and corporate sustainability. Efficiency and imagination have been obtained by the use of Artificial Intelligence (AI) in many aspects of the HR of the organization. The emergence of manmade artificial intelligence (AI) technology signals a deviation from the human resources (HR) sector, which has long been recognized for emphasizing active interpersonal skills and sophisticated decision-making.

Febri Pramudya Wardani, Eogenie Lakilaki, Nurhasanah Pasaribu, and I Kadek Andika Putra Bahari (2025). The study explains the different novel approaches that the organization can adopt in using artificial intelligence (AI) to enhance the human resource performance in the organization while identifying the challenges and the opportunities that come up during the transformation process. The data resource was obtained from diverse international databases from 2019 to 2025. This finding explains the effectiveness of AI-driven HR transformation depending significantly on the collaboration between the individual and technology, a moral framework that orders employee requirements, and the execution of a strategy that is organized, long-lasting, and responsive to challenges arising from both the technical and cultural sides of the organization. As a result, it can be a reason to include AI in human resource management that is not only based on the technology but also requires essential shifts that are strategic, ethical, and focused on people.

Abdulgader Alsharif (2025), The study states that the standard efficiency management framework includes yearly journals and self-respect, which are becoming less adequate because they are biased, repetitive, and strengthen managerial prejudice. Research on human resource management indicates that workers move to view such processes as

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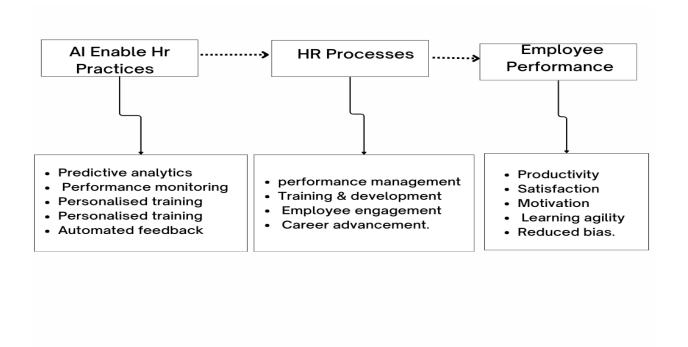
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defiled with motivation, not transparent, and fast-changing organisational goals. In turn, researchers have been inspecting the potential of artificial intelligence (AI)

Mohammad Ekram Yawar, Mohammad Qurban Hakimi(2025). The study examines how the business landscape changes, and human resource management faces new issues that must be resolved. Addressed while ensuring the best possible growth and development of the organization. This study identifies the use of artificial intelligence technology for human resources functions related to recruitment and selection, attending meetings, employee retention, Com & ben, workforce administration in general, and employee retention. The integration of artificial intelligence with human resource management practices is revolutionizing the way firms hire, manage, and engage with employees. With the help of artificial intelligence, machines have become capable of making decisions based on historical data and trend behavior better than human beings. As a result of this transition, machines have substituted all physical jobs, making HR professionals shift to other strategic roles.

Md. Masudul Haque Bhuiyan, Kripa Nath Dey, Palash Saha, Pankaj Kumar Sarker, Md. Halimuzzaman, and Md. Tanjil Biswas (2025). This study explores how Artificial Intelligence (AI) is transforming Human Resource (HR) practices with special reference to their impact on recruitment, employee engagement, productivity, administration, and overall HR performance. A survey was made with 300 HR managers and professionals and employees, and the research evaluates the benefits and challenges of using AI in HR processes. The findings prove that AI increases productivity and reduces biases in hiring and assessment and evaluating employee performance through customised experience. Even so, challenges such as high implementation cost, concern for algorithmic discrimination, privacy of data, resistance to change and unwillingness to adapt were identified as hurdles in effective AI implementation.

Conceptual framework



Findings

The study proves the addition of AI-driven HR practices enhances HR activities significantly, thereby leading to positive employee performance outcomes. HR practices supported by AI (predictive analytics, performance monitoring, personalized training, and automated feedback) form the basis for new HR transformation. As AI is infused in HR, it enhances HR processes, including performance management, training & development, employee engagement, and career growth. HR processes are the key go-between: through better HR practices, the advantages of AI are actually leveraged to drive employee outcomes. The final result of this shift is found in increased employee performance measured through greater productivity, higher satisfaction, improved motivation, better learning agility, and less bias in assessment. The

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model shows that merely adopting AI technologies is insufficient; the true value comes through when those technologies are thoughtfully integrated into core HR processes so that employee requirements and the people side of work are kept forefront. In brief, the model illustrates that AI-facilitated HR practices induce better employee performance largely through changing and boosting HR processes and not merely through their immediate influences. To fulfill desired effects, organizations need to attend to both sophisticated technology and enhancing their people-oriented HR processes. The above conceptual diagram displays such a relationship wherein

AI-powered HR practices (independent variable) → enhance HR processes (mediator) → result in enhanced employee performance (dependent variable).

This points out that the successful combination of technology and HR is not merely about automating but about building a more intelligent, responsive, and equitable system that maximizes both organizational and individual potential.

Suggestions

The organisations can embrace Real Time and Continuous Performance Management to Shift from the time-consuming and biased decision or irregular manual appraisal to AI-led performance tracking systems. Using AI tools to give frequent real time feedback and recommendations allows instant valuing of accomplishments and timely interventions when performance dips are identified. The organisations can apply bias-reduction mechanisms using AI algorithms for performance assessment and hiring reduces human bias, recall errors, and emotional judgments. It helps to make more equitable decisions and fosters openness in HR processes. Employee Training and development team could use AI analytics to customize learning and development initiatives according to the individual interest, identifying individual strengths, weaknesses, and ambitions. The organisations provide individualized feedback and development direction using machine learning and natural language processing, increasing job satisfaction and career growth. Improvement in Recruitment and On-boarding .Implementing AI in recruitment to screen candidates, schedule interviews and ensuring cultural fit, objective of the organization, and bias-free hiring processes. The organisations facilitate AI technology for ongoing engagement metrics, sentiment analysis, and predictive analytics to pick up on troubled employee and get ahead of their problems. Simplified Administrative HR Functions hold automation of routine HR activities such as workforce administration, benefits, and attendance management to allow HR professionals to consume time in high leverage, strategic areas. Technology - People Collaboration ensure that adopting AI is based on the ethical guidelines and transparency with an balance technology-enabled efficiency and the human factor in HR management Focus on communication, change management and training in order for employees and HR personnel to learn to adjust to new technologies

Conclusion

The development of AI in HR practices is structured in three ways how an organization assesses, develops, and engages employees. In addition to automating processes, AI improves faithful, timely, and unbiased performance assessment, eliminating inefficiencies and disadvantages in conversational HR. The research indicates that the AI improves performance management, recruitment, and employee engagement, which is powered by predictive analytics, automated observation, and real-time tracking. These changes result in the productivity of an organization, job satisfaction of employees, and lower bias. AI must be augmented by human judgment and empathy. The ethical standards, openness, and change management are essential to establish trust and guard privacy. The AI-driven HR is not just about productivity. It is a driver of more equitable, intelligent, and responsive people management. The organization that balances technology and humanity will realize more potential in the digital age.

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Reference

Alsharif, Abdulgader. "The Standard Efficiency Management Framework and the Role of Artificial Intelligence in HR." 2025.

Bhuiyan, Md. Masudul Haque, et al. "Artificial Intelligence in Human Resource Practices: Impacts on Recruitment, Employee Engagement, and Productivity." 2025.

Chukwuka, Ernest Jebolise, and Kashiari Esther Dibie. "Artificial Intelligence in Modern HR: Overcoming Bias in Performance Appraisals." 2024.

Haque Bhuiyan, Md. Masudul, Kripa Nath Dey, Palash Saha, Pankaj Kumar Sarker, Md. Halimuzzaman, and Md. Tanjil Biswas. "AI Transformation in HR: Opportunities and Challenges." 2025.

Krishnan, L. R. K., Praveen K., and Poorani S. "AI and HR Effectiveness: An Integrated Approach to Workforce Satisfaction." 2024.

Kumar, Dr. P Naresh, Dr. L. Madan Mohan, and Dr. M. Satya Shivalini. "AI-Based Metrics for Assessing Employee Performance: A Mixed-Methods Study in Manufacturing." 2024.

Wardani, Febri Pramudya, et al. "Novel Approaches to AI-Driven HR Transformation: Challenges and Opportunities." 2025.

Yawar, Mohammad Ekram, and Mohammad Qurban Hakimi. "Artificial Intelligence in HRM: Revolutionizing Recruitment, Retention, and Workforce Administration." 2025.