



The Role of AI-Driven Strategic Human Resource Management in Enhancing Organizational Innovation and Global Competitiveness: A Review Study

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Abstract

Artificial Intelligence (AI) is considered one of the most impactful technologies that can transform Strategic Human Resource Management (SHRM) through data-informed decision-making, workforce optimization, and innovation-focused human capital management. In this context, the current research seeks to analyze the importance of AI-based SHRM as a means of organizational innovation and global competitiveness through reviewing recent trends in AI-based recruitment, performance management of employees, workforce analytics, employee engagement, and intelligent decision support systems. The study investigates how new AI technologies, such as machine learning, natural language processing (NLP), predictive analytics, deep learning, and generative AI are introduced into human resource management practices to enhance talent acquisition and retention, skills development, and workforce planning. According to the review, AI-driven SHRM enables organizational innovation through fostering knowledge management, employee capability development, digital transformation, and innovation-related decision-making based on evidence. Moreover, AI-powered HR analytics and generative AI applications offer valuable insights for organizations to boost agility and productivity and gain competitive advantages. Nevertheless, the application of AI in HRM poses serious challenges, including issues of data privacy, algorithmic bias, transparency, explainability, ethical decision-making, and human-AI interaction. In this review, the knowledge gaps in the current literature are pointed out, and the necessity of the use of proper AI governance frameworks, explainable AI, and human-centered AI is stressed. It is found from the results that AI-based SHRM can be considered a significant strategic competence for improving innovation performance and organizational adaptability.

Keywords: Artificial Intelligence, Strategic Human Resource Management, AI-driven HRM, Organizational Innovation, Workforce Analytics, Generative AI, Competitive Advantage

1. Introduction

The COVID-19 pandemic dramatically accelerated digital transformation, compressing years of technological adoption into mere months. According to a global McKinsey survey, digital offerings advanced by nearly seven years in just the first half of 2020 [1]. There have been a lot of developments in Strategic Human Resource Management (SHRM), which has grown from being a conventional administrative process concerned with the management of employees into a strategic partner involved in the development of the organization [2]. In the

age of digitalization, IT and big data, cloud computing, and artificial intelligence (AI) have changed the way HR functions, bringing in a new approach to decision-making based on data, workforce prediction, and personalized experience of the employees [3]. With the advent of Artificial Intelligence in Human Resource Management, more skills have been added to those related to intelligent recruiting, automatic performance evaluations, employee engagement, talent management, and workforce prediction. AI-powered SHRM brings in a combination of computational power and strategic HR functions aimed at enhancing organizational agility, knowledge management, and innovative capabilities of the organization [4]. Using AI-related insights, organizations can find out about skill gaps, optimize the use of human capital, enable global cooperation, and build adaptive workforce strategy [5].

SHRM stands for Strategic Human Resource Management and implies the incorporation of human resource practices in line with strategic business objectives and goals. Differently from traditional HRM that is concerned mostly with administrative functions such as recruiting employees, dealing with payroll and maintaining employee records, SHRM pays attention to human capital as a tool to gain competitive advantages [6]. Strategic Human Resource Management involves such areas as strategic talent acquisition, employee development, performance management, knowledge management, workforce planning and engaging employees. Through proper alignment of human capabilities, organizational culture and corporate strategy, SHRM allows enhancing productivity, flexibility and innovation capacity of the organization [7]. Modern digital environment contributes to the evolution of SHRM towards technology-driven approach when advanced analytical tools help HR managers to make data-based decisions regarding workforce optimization and performance improvement [8].

• Artificial Intelligence Technologies in Human Resource Management

The implementation of AI technologies has brought major changes in the field of Human Resource Management through automation, prediction, and intelligent decision making. AI HR technologies use technologies like machine learning, natural language processing (NLP), predictive analytics, deep learning, and generative AI to analyse big amounts of information related to employees and provide useful insights for decision-making [9]. They facilitate such HR tasks as automated resume evaluation, candidate matching, and analysis of employee sentiments, skills assessment, personalized learning recommendations, and forecasting labor demand. AI-based HR analytics helps firms detect trends in the field of talent management, predict turnover, and make optimal decisions regarding resource allocation. Besides, AI brings increased efficiency by reducing manual effort and allowing HR specialists to focus more on strategic activities. Nevertheless, the proper implementation is not possible without overcoming such challenges as data privacy issues, algorithmic bias, transparency, and ethical decision-making [10].

Innovation within an organization involves coming up with and implementing new ideas, processes, products, services, or even business models in order to enhance organizational performance and create value. With today's very competitive and dynamic business



environment, innovation has become very crucial when seeking sustainable competitive advantage [11]. Organizations which have efficient knowledge management mechanisms and which encourage creativity among employees are in a good position to handle the changes that come from technology and the uncertainty in the market. SHRM plays a key role in enhancing innovation through the provision of a conducive working environment, development of employee skills and fostering collaboration and continuous improvement [12]. With the incorporation of AI within the HRM process, organizations get a chance of identifying emerging skills and making decisions about them in order to increase their competitiveness.

2. AI-Driven Strategic Human Resource Management Practices

The concept of AI-based strategic human resource management (AI-SHRM) refers to an approach that involves the application of technologies of artificial intelligence to strategic HR management in order to enhance the effectiveness of workforce management and organizational performance. As a result of applying such tools as machine learning, predictive analytics, natural language processing, and intelligent automation, it is possible to empower HR functions and shift from operational to strategic workforce management [13]. The adoption of AI in HR allows organizations to discover proper talent, optimize employee performance, forecast workforce trends, improve employee experience, and make decisions based on evidence. AI-driven recruitment and talent acquisition software have revolutionized traditional recruitment by bringing automation, efficiency, and data analysis in the process of identifying and selecting the most suitable candidates. AI algorithms make an analysis of huge amounts of applicant information, including CVs, profiles, skills, and work experience of each individual to find out whether his/her abilities fit the needs of the organization [14]. The technology uses NLP techniques to screen resumes, evaluate applicants' competencies, and communicate with candidates via AI-driven chatbots. In addition, predictive recruitment analytics will allow organizations to forecast their future talent needs and acquire them [15].

The systems of performance management for employees through artificial intelligence help in generating an intelligent mechanism for assessing, monitoring and improving the productivity of employees. The usual performance assessment systems rely on regular reviews and evaluations but the systems with the help of artificial intelligence can evaluate continuous data about the performance of the employee, which includes productivity, collaboration, skill development and outcomes from the work done [16]. Machine learning algorithms can be used for determining the trends in the performance of the employee, their strengths and weaknesses and giving personalized suggestions for improving the performance. The use of AI technology for learning and development provides an opportunity for enhancing the knowledge acquisition of the staff through customized training experiences. AI algorithms can examine the performance information, competencies and learning preferences of each individual employee to suggest appropriate training programs, courses and skill-building strategies [17]. The intelligent learning systems allow for dynamic adjustment of learning material depending on employee performance and give instant feedback. The learning systems also assist organizations in recognizing the skill gaps in their workforce and preparing employees for the



new technological demands. Through constant learning and adaptability, AI training systems contribute to organizational innovativeness [18].

AI and ML methods are used for predictive workforce analytics through the analysis of past and live data to identify future organizational needs and aid in making strategic decisions [19]. AI can predict the following: employee turnover rates, demand for workforce, skill gaps, productivity and hiring needs. Such analysis allows HR managers to make preventive decisions concerning talent management, resources allocation and employee retention policies. While conventional HR analytics is limited to descriptive measures, predictive analytics offers recommendations on how to address the challenges. Through the use of decision support systems based on AI technology, the organization will be able to enhance its workforce planning [20].

AI-enabled strategies for employee engagement and retention are centered on gauging employees' behaviours, their level of satisfaction, and their organizational commitment by way of using intelligent data analysis techniques. Technologies such as sentiment analysis, natural language processing, and behavioural analytics may be used for assessing employee opinions, communications, and work experience, thus enabling organizations to recognize engagement patterns [21]. In this way, organizations may recognize potential issues regarding dissatisfaction and employee turnover, as well as come up with tailored retention policies and strategies. The use of AI recommendations may also prove useful when implementing initiatives concerning workplace improvements, wellbeing, career development, and recognition programs [22]. AI decision-making systems for HR make decisions by using AI algorithms on different decisions related to HR, such as recruiting people, evaluating employees' performances, making compensation plans, providing opportunities for career advancement, and allocating employees among departments [23]. These tools help to analyse the data of the employees in order to give personalized recommendations to HR managers who make quicker and more precise decisions in this regard. Using AI algorithms for personalizing the experience of each employee allows organizations to create unique learning paths, career advice, flexible working schedules, and engagement programs for each employee separately [24]. But at the same time, proper use of AI in this area presupposes transparent frameworks for it.

3. Impact of AI-Driven SHRM on Organizational Innovation

AI-Powered Strategic Human Resource Management (AI-SHRM) has an important place in facilitating innovation at the organizational level through redefining how organizations will be managing their knowledge, developing employees' skills, and designing innovation-driven working environment [25]. By combining the artificial intelligence technologies with the strategic human resource management, organizations can discover new skills, foster creativity, enhance knowledge management, and facilitate data-driven innovations. The AI-powered HR systems assist organizations in gaining insight into their employees' skills, workforce trends, and needs of organization. In turn, organizations will be able to adapt their strategies to the changes occurring on the market and improve continuously. AI-driven knowledge management systems foster organizational innovation through facilitating knowledge acquisition,



processing, distribution, and application at various organizational levels [26]. The use of AI technology such as machine learning, natural language processing, and intelligent recommendation systems assists in extracting useful information from huge amounts of both internal and external data sources. Knowledge management systems assist in facilitating the process of discovering knowledge, fostering collaboration among employees, and accessing useful information, which in turn helps employees to come up with creative and innovative ideas. Through facilitating knowledge gaps identification, resource recommendation, and connecting similar-minded people, intelligent recommendation systems foster collaborative innovation within organizations [27].

AI-assisted SHRM facilitates the development of innovation capabilities among employees through skill identification, competency building, and career development programs tailored specifically for individuals. The use of AI in assessment tools for analysing performance, learning styles, and professional competencies of employees assists in recognizing the development areas and suggests effective measures for development purposes [28]. Employees can benefit from customized training provided via AI-assisted platforms for developing their technical, problem solving, and creative skills. Moreover, workforce analytics through AI also assists organizations to recognize the innovators within them and allocate resources effectively. AI-SHRM creates a workforce of innovators through skill building and creative capabilities. AI-based SHRM is an important tool for the digital transformation of organizations due to the integration of intelligent technologies within organizational processes and human resource management approaches [29]. Utilization of artificial intelligence in HR processes stimulates the creation of a technology-based organizational culture in which employees are willing to innovate and improve themselves using digital competencies. AI-driven HR processes contribute to the organizational agility through the implementation of decision-making, effective communication, and resource allocation practices. In addition, AI technologies stimulate transparency, cooperation, and employee empowerment with the help of data analysis and personalized approaches [30].

HR analytics that uses artificial intelligence improves innovation decisions through provision of valuable insights obtained through analysing data regarding employees and organizations. Through the use of sophisticated analytics tools such as predictive analytics and machine learning, HR managers are able to assess the abilities of their workforce, predict future talent needs, and evaluate what influences the performance of innovations [31]. Such insights help organizations to make evidence-based decisions on recruitment, training of employees, creating teams, and allocating resources. AI analytics is also capable of establishing connections between attributes of the workforce and results of innovations, enabling organizations to develop targeted strategies aimed at enhancing innovation and productivity [32]. Strategic Human Resource Management activities directly affect innovation performance of organizations through influencing behavior, skills, and culture of their employees. Practices including strategic talent management, empowering employees, continuous learning, performance-based development, and knowledge sharing are conducive to innovation [33]. The implementation of AI technologies intensifies the impact of SHRM on innovation performance

because of its ability to personalize the HR strategies and conduct predictions and efficient management of the workforce. Thus, AI-supported SHRM allows organizations to find innovative individuals, develop necessary skills, and align human resources with their innovation goals. This way, organizations using AI technologies in conjunction with SHRM activities can enhance innovation performance and competitiveness on the global market [34].

4. AI-Enabled SHRM Technologies: Current Trends and Applications

AI increases the effectiveness of HRM in terms of recruiting employees, performance assessment, development of employees, and decision-making processes. However, problems such as bias, privacy, and transparency continue to be significant issues [35]. Data-based HR analytics helps to attract talents, to retain employees, make plans for the workforce, and improve decision-making. However, there are some limitations related to data privacy, infrastructure, and organizational barriers to the adoption of such technology [36]. Such technologies as machine learning, natural language processing, robotic process automation, and predictive analytics provide a number of benefits concerning the recruiting process, personalizing learning, and retaining employees along with increasing HR productivity [37]. AI technologies and predictive analytics increase engagement of employees thanks to personalized communication and continuous feedback [38]. With the help of AI, HR functions are made easier due to such technologies as intelligent applicant tracking systems and predictive analytics [39]. AI and Automation create positive effects on Human Resource Development through improved learning, training, and capability development while suggesting further areas of research [40]. Digital Leadership increases innovative work behavior through enhanced learning orientation and innovation capability in organizations [41]. Digital capabilities are required by SMEs to effectively implement digital business strategy and be competitive in evolving markets [42]. Social Network Analysis provides insights into collaboration networks and key research topics in AI-enhanced Human Resource Management [43]. Backpropagation Neural Networks show that HR practices associated with compensation exert maximum impact on employee turnover and organizational performance [44]. The application of NLP techniques like Bag-of-Words and Doc2Vec is highly effective in analyzing HR text data and predicting organizational and employee outcomes [45]. ChatGPT enables the strategy and operations of HR in the process of increasing efficiency through efficient prompt engineering and human verification [46]. The use of strategic Generative AI enables sustainable HRM through the adoption of responsible AI, workforce development, and continuous learning [47]. ChatGPT and other similar generative AI technologies enhance recruitment, training, communications, and employee engagement and require ethical governance and human supervision [48]. Generative AI brings together various HRD practices through personalized learning, skills gap analysis, employee sentiment analysis, and decision-making using AI [49]. Generative AI is beneficial to recruitment, employee engagement, and decision-making in HR but requires responsible application [50].



Table 1. Comparative Summary of Recent Studies on Artificial Intelligence and Generative AI in Human Resource Management

Ref. No.	Objective/Focus	AI Technique	Key Findings	Limitations
[35]	AI adoption in Human Resource Management (HRM)	AI algorithms	AI improves recruitment, performance management, employee development, and decision-making through automation and analytics.	Ethical issues including bias, privacy, and transparency.
[36]	Data-driven analytics in HRM	HR Analytics, Predictive Analytics	Data analytics improves recruitment, retention, workforce planning, and decision accuracy while reducing bias.	Data privacy concerns, technological infrastructure requirements, and cultural resistance.
[37]	AI for talent acquisition, development, and retention	ML, NLP, RPA, Predictive Analytics	AI automates recruitment, personalizes learning, enhances employee retention, and improves organizational efficiency.	Algorithmic bias, privacy concerns, and ethical challenges.
[38]	AI-driven employee engagement	Predictive Analytics, Chatbots, Machine Learning	AI enables personalized employee engagement, continuous feedback, sentiment analysis, and better HR decision-making.	Data privacy risks and algorithmic bias.
[39]	AI across employee lifecycle	AI-based ATS, Predictive Analytics	AI enhances hiring, onboarding, personalized training, retention, and performance monitoring.	Ethical concerns, data privacy, and algorithmic bias.
[40]	AI and automation in	AI & Automation	AI positively influences HRD processes and	Limited empirical



	Human Resource Development (HRD)		improves organizational learning and development outcomes.	evidence and need for future research.
[41]	Digital leadership and innovative work behavior	Structural Equation Modeling (SEM)	Digital leadership promotes innovation through learning orientation and innovation capability.	Limited to the French automobile industry; limited generalizability.
[42]	Digital skills in SMEs	Qualitative Literature Review	Digital skills significantly improve successful implementation of digital business strategies and SME competitiveness.	Literature review only; lacks empirical validation.
[43]	Research landscape of AI in HRM	Social Network Analysis (SNA), TOPSIS	Identified major research themes, collaboration networks, influential authors, institutions, and AI-HRM trends.	Bibliometric study; does not evaluate practical implementation.
[44]	HR practices affecting organizational performance	Backpropagation Neural Network (BPN)	Compensation practices most strongly predict firm sales and employee turnover.	Dataset limited to Korean firms; limited external applicability.
[45]	NLP applications in HRM	Bag-of-Words, Doc2Vec, NLP	NLP effectively predicts company ratings and personality traits from textual data.	Demonstration-based study with limited HR applications.
[46]	ChatGPT as an HR assistant	Generative AI (ChatGPT)	ChatGPT supports strategic and operational HR tasks through effective prompt engineering.	Requires human verification and careful prompt design.
[47]	Strategic HRM framework for Generative AI	Generative AI (GAI), Institutional	Proposed a framework for responsible GAI integration, workforce	Conceptual framework without

		Entrepreneurship Theory	development, and continuous learning.	empirical validation.
[48]	ChatGPT in HRM	ChatGPT, Gemini, NLP	AI enhances recruitment, training, organizational communication, and employee engagement.	Ethical concerns, algorithmic bias, privacy, and need for human oversight.
[49]	GAI integration in HRD	Generative AI	GAI connects HRD activities including skill gap analysis, personalized learning, chatbots, sentiment analysis, and talent development.	Editorial study; lacks empirical evaluation.
[50]	Generative AI in HRM	Generative AI	GAI improves recruitment, employee engagement, and HR efficiency while emphasizing responsible AI adoption.	Based only on literature review; requires empirical validation and ethical frameworks.

5. Challenges and Ethical Issues in AI-Based HRM

The use of Artificial Intelligence in Human Resource Management (AI-HRM) brings many benefits in terms of automation, prediction, and workforce optimization, but there are also many technical, organizational, and ethical issues with its implementation. The first issue relates to data privacy and security since AI-based HR systems need access to large amounts of sensitive employee data, including their personal information, performance metrics, behavioral data, and evaluations. The incorrect management of such data poses the risk of its leakage and, thus, may violate employees' privacy. One more issue relates to algorithmic bias and fairness. In fact, AI algorithms trained on historical organizational data might produce some bias with regard to recruitment, performance evaluation, promotion, or compensation, and that might result in unfair treatment of employees and the decrease of organizational diversity and inclusiveness. The lack of transparency and explainability of sophisticated AI algorithms makes it difficult for HR managers and employees to understand and challenge AI recommendations. Additionally, the effective application of AI-powered HRM needs to consider the problems associated with the organizational resistance, the acceptance among employees, and human-AI cooperation. Namely, the adoption of AI by the employees and HR experts can be seen as a threat to their safety at work, decision-making rights, or the

conventional practice at work, which causes organizational resistance to the implementation of technology. The high reliance on automated systems may lead to diminishing the role of humans in HR processes, as empathy, ethical evaluation, and contextuality remain vital aspects of HRM. The generation AI applications, like the one based on ChatGPT, pose extra risks in terms of making incorrect suggestions, spreading of misinformation, problems related to the intellectual property rights, and the necessity of constant verification of the decisions made by AI. Also, the companies need to develop the responsible AI governance systems that will guarantee fairness, accountability, and compliance with the data protection laws.

6. Conclusion

The integration of Artificial Intelligence in Strategic Human Resource Management has brought about a major transformation in the role of HR from an administrative function to a strategic contributor to the growth, innovation, and competitive edge of organizations. In this literature review, it is shown that through AI-based SHRM, organizations can use intelligent technologies such as machine learning, predictive analysis, NLP, and generative AI to improve their hiring processes, performance management, employee engagement, talent management, and workforce planning. The usage of intelligent HR practices helps organizations gain insight through data, personalized experiences, and strategic approach to increase the effectiveness of the workforce and promote innovation capability. In addition, knowledge management, skills development, and HR analytics through AI technology make organizations agile enough to recognize new competencies and foster creativity. Even though there are many positive aspects of AI, there is still a number of issues that need to be solved for effective application of AI into HRM practices and these issues include such areas as privacy preservation, algorithmic fairness, transparency, explainability, ethical governance, as well as preserving the role of humans in the decision-making process. Future developments of HR systems based on AI need to be oriented at responsible adoption of new technologies, human-centric practices, and hybrid approaches to applying AI. The present review shows that AI-based SHRM is likely to become an important strategic capability that could bring benefits in terms of innovation performance, adaptation of workers, and competitive advantage of organizations.

References

- [1] Van Beurden, J., Bauwens, R., Van De Voorde, K., Ghielen, S., Kilroy, S., Li, M., ... & Kooij, D. (2026). Multilevel theorizing in strategic human resource management research: A systematic and critical review. *Human relations*, 79(2), 140-180.
- [2] Mousa, M., & Arslan, A. (2026). Strategic human resources management in times of economic uncertainty: a lifebuoy for employees? *Journal of Organizational Effectiveness: People and Performance*, 13(1), 83-103.
- [3] Jayarathna, G. S., Perera, S. R., & Gunawardana, S. (2026). Strategic Human Resource Management: Driving Organizational Excellence through Strategic Alignment, Ethical Practices, and Emerging Trends. *VBT-IE of BM (First E. Ratten (Ed.), International Encyclopedia of Business Management (pp. 709–717). Elsevier. <https://doi.org/10.1016/B978-0-443-13701-3.00407-2>*.



- [4] Geru, A. A., Birbirs, Z. A., & Dinber, G. N. (2026). The impact of strategic human resource practices on intellectual capital development in Ethiopia: empirical evidence from Oromia regional public service organizations. *International Journal of Organizational Analysis*, 34(2), 681-702.
- [5] Chanana, N. (2026). Role of artificial intelligence in employee engagement and work performance: analytical study based on Word2Vec technique of natural Language processing. *Quality & Quantity*, 1-19.
- [6] Nastase, C., Adomnitei, A., & Apetri, A. (2025). Strategic Human Resource Management in the Digital Era: Technology, Transformation, and Sustainable Advantage. *Merits*, 5(4), 23. <https://doi.org/10.3390/merits5040023>
- [7] Alexandro, R. (2025). Strategic human resource management in the digital economy era: an empirical study of challenges and opportunities among MSMEs and startups in Indonesia. *Cogent Business & Management*, 12(1), 2528436.
- [8] Gong, Q., Fan, D., & Bartram, T. (2025). Integrating artificial intelligence and human resource management: a review and future research agenda. *The International Journal of Human Resource Management*, 36(1), 103-141.
- [9] Zhang, J., Jehangir, F. N., Yang, L., Tahir, M. A., & Tabasum, S. (2025). Competitive advantage and firm performance: The role of organizational culture, organizational innovation, and knowledge sharing. *Journal of the Knowledge Economy*, 16(1), 3081-3107.
- [10] Alzeiby, E. A., Islam, N., Shaik, A. S., & Yaqub, M. Z. (2025). AI adoption in enterprises for enhanced strategic human resource management practices: benefiting the employee engagement and experience. *Journal of Enterprise Information Management*, 38(5), 1441-1464.
- [11] Faruk, O. M. (2025). ARTIFICIAL INTELLIGENCE IN BUSINESS INTELLIGENCE: ENHANCING PREDICTIVE WORKFORCE AND OPERATIONAL ANALYTICS. *ASRC Procedia: Global Perspectives in Science and Scholarship*, 1(01), 589-617.
- [12] Roy, S. K., Dey, B. L., Brown, D. M., Abid, A., Apostolidis, C., Christofi, M., & Tarba, S. (2025). Business model innovation through AI adaptation: the role of strategic human resources management. *British journal of management*, 36(2), 546-559.
- [13] Nastase, C., Adomnitei, A., & Apetri, A. (2025). Strategic human resource management in the digital era: technology, transformation, and sustainable advantage. *Merits*, 5(4), 23.
- [14] Kshirsagar, V. A., Bapat, H., & Rane, N. (2025, November). Integrating artificial intelligence and strategic HRM for predictive insights into employee performance and organizational agility. In *2025 3rd International Conference on Computational Intelligence and Network Systems (CINS)* (pp. 1-6). IEEE.
- [15] Majumdarr, S., Dasgupta, S. A., Hassan, Y., Behl, A., & Pereira, V. (2025). Linking digital transformational leadership, symmetrical internal communication with innovation



- capability: a moderated mediation model. *Journal of Knowledge Management*, 29(8), 2478-2496.
- [16] Joglekar, S. S., & Padma, S. (2025). Role of AI and Analytics in driving HR innovation and Sustainable Financial growth in Organizations. *Journal of Marketing & Social Research*, 2, 41-47.
- [17] Gupta, R., Kumar, S., Karad, S., Singh, V., Lenka, R., & Nikam, P. (2025, February). Assessing the Effect of AI-Powered HR Analytics on Electronics Manufacturing Decision-Making. In 2025 First International Conference on Advances in Computer Science, Electrical, Electronics, and Communication Technologies (CE2CT) (pp. 862-867). IEEE.
- [18] Madhuri, A., & Kumar, B. R. (2025). HR analytics and decision-making: A data-driven approach to employee performance management. *Journal of Neonatal Surgery*, 14(7s).
- [19] Ma, D., Shu, M., & Zhang, H. (2025). Feature selection optimization for employee retention prediction: A machine learning approach for human resource management.
- [20] Căvescu, A. M., & Popescu, N. (2025). Predictive analytics in human resources management: Evaluating AIHR's role in talent retention. *AppliedMath*, 5(3), 99.
- [21] Ramasamy, R. K., Muniandy, M., & Subramanian, P. (2025). A Predictive Framework for Sustainable Human Resource Management Using tNPS-Driven Machine Learning Models. *Sustainability*, 17(13), 5882.
- [22] Sun, Z. (2025). Determining human resource management key indicators and their impact on organizational performance using deep reinforcement learning. *Scientific reports*, 15(1), 5690.
- [23] Talebi, H., Khatibi Bardsiri, A., & Bardsiri, V. K. (2025). Machine learning approaches for predicting employee turnover: A systematic review. *Engineering Reports*, 7(8), e70298.
- [24] Sharma, C., & Chanana, N. (2025). The intersection of artificial intelligence and human resources: transforming journey using natural language processing. *Iran Journal of Computer Science*, 8(3), 1007-1022.
- [25] Hemnath, R. (2025). Integrating Natural Language Processing with BERT and LSTM for Employee Sentiment Analysis in HRM. *Integr. Nat. Lang. Process. with BERT LSTM Empl. Sentim. Anal. HRM*, 10(03), 13-20.
- [26] Cherian, E., Bhuvaneswari, G., Rajakumar, P. V., Furaiji, H. B., Najah, S., & Jasim, J. A. (2025, August). Natural Language Processing-Based Employee Feedback Analysis Framework for Engagement Enhancement. In 2025 International Conference on Recent Innovation in Science Engineering and Technology (ICRISET) (pp. 1-6). IEEE.
- [27] Eshete, S. K., & Birbirssa, Z. A. (2024). Strategic human resource management (SHRM) in creating inclusive workplace: Systematic review. *Sage Open*, 14(4), 21582440241287667.
- [28] Al-Shammari, M., Al Bin Ali, F. A., AlRashidi, M. A., & Albuainain, M. S. (2024). Big data and predictive analytics for strategic human resource management: A systematic literature review.



- [29] Bujold, A., Roberge-Maltais, I., Parent-Rochelleau, X., Boasen, J., Sénécal, S., & Léger, P. M. (2024). Responsible artificial intelligence in human resources management: a review of the empirical literature. *AI and Ethics*, 4(4), 1185-1200.
- [30] Korayim, D., Chotia, V., Jain, G., Hassan, S., & Paolone, F. (2024). How big data analytics can create competitive advantage in high-stake decision forecasting? The mediating role of organizational innovation. *Technological Forecasting and Social Change*, 199, 123040.
- [31] Faheem, M. A., Anwer, S., Rayhan, Z., Ullah, M. A., Paudel, R., Ahmed, M. F., & Khan, H. (2024). AI-driven innovation in HRM and its impact on business management: An in-depth study of technology advancement and strategic implementation. *Nanotechnology Perceptions*, 20(S13), 1174-1193.
- [32] Ali, A., & Rafi, N. (2024). Enhancing human resource management through advanced decision-making strategies: Harnessing the power of artificial intelligence for strategic, data-driven, and judicious choices. *Migration Letters*, 21(S8), 881-889.
- [33] Madhumita, G., Diana, P. D., Kiran, P. N., Aggarwal, S., & Nargunde, A. S. (2024, April). AI-powered performance management: Driving employee success and organizational growth. In *2024 5th international conference on recent trends in computer science and technology (ICRTCST)* (pp. 204-209). IEEE.
- [34] Ghedabna, L., Ghedabna, R., Imtiaz, Q., Faheem, M. A., Alkhayyat, A., & Hosen, M. S. (2024). Artificial intelligence in human resource management: Revolutionizing recruitment, performance, and employee development. *Nanotechnology Perceptions*, 20(S10), 52-68.
- [35] Weng, Y., & Golli, A. (2024). AI in HR: Enhancing performance management and employee development through intelligent technologies. *Journal Of Economics And Business Management*, 3(11), 1-7.
- [36] Okon, R. I. C. H. A. R. D., Odionu, C. S., & Bristol-Alagbariya, B. E. R. N. A. D. E. T. T. E. (2024). Integrating data-driven analytics into human resource management to improve decision-making and organizational effectiveness. *Ire Journals*, 8(6), 574.
- [37] Kadirov, A., Shakirova, Y., Ismoilova, G., & Makhmudova, N. (2024, April). AI in human resource management: Reimagining talent acquisition, development, and retention. In *2024 International conference on knowledge engineering and communication systems (ICKECS)* (Vol. 1, pp. 1-8). IEEE.
- [38] Priya, M. S., Khan, S., Siddiqui, S., Sharma, M. S., & Verma, S. (2024). The Role of AI in Shaping the Future of Employee Engagement: Insights from Human Resource Management. *Library of Progress-Library Science, Information Technology & Computer*, 44(3).
- [39] Madanchian, M. (2024). From recruitment to retention: AI tools for human resource decision-making. *Applied Sciences*, 14(24), 11750.
- [40] Ekuma, K. (2024). Artificial intelligence and automation in human resource development: A systematic review. *Human Resource Development Review*, 23(2), 199-229.



- [41] Ahmed, F., Naqshbandi, M. M., Waheed, M., & Ain, N. U. (2024). Digital leadership and innovative work behavior: impact of LMX, learning orientation and innovation capabilities. *Management Decision*, 62(11), 3607-3632.
- [42] Sutrisno, S., Kraugusteeliana, K., & Syamsuri, S. (2024). Analysis of the interconnection between digital skills of human resources in smes and the success of digital business strategy implementation. *MALCOM: Indonesian Journal of Machine Learning and Computer Science*, 4(2), 601-606.
- [43] Maghsoudi, M., Shahri, M. K., Kermani, M. A. M. A., & Khanizad, R. (2024). Mapping the landscape of AI-driven human resource management: A social network analysis of research collaboration. *IEEE Access*, 13, 3090-3114.
- [44] Lee, M., Lee, G., Lim, K., Moon, H., & Doh, J. (2024). Machine learning-based causality analysis of human resource practices on firm performance. *Administrative Sciences*, 14(4), 75.
- [45] Guo, F., Gallagher, C. M., Sun, T., Tavoosi, S., & Min, H. (2024). Smarter people analytics with organizational text data: Demonstrations using classic and advanced NLP models. *Human Resource Management Journal*, 34(1), 39-54.
- [46] Aguinis, H., Beltran, J. R., & Cope, A. (2024). How to use generative AI as a human resource management assistant. *Organizational Dynamics*, 53(1), 101029.
- [47] Chowdhury, S., Budhwar, P., & Wood, G. (2024). Generative artificial intelligence in business: towards a strategic human resource management framework. *British Journal of Management*, 35(4), 1680-1691.
- [48] Rane, N. (2024). Role and challenges of ChatGPT, Gemini, and similar generative artificial intelligence in human resource management. *Studies in Economics and Business Relations*, 5(1), 11-23.
- [49] Korzynski, P., Kim, S., & Egan, T. (2024). Bridging human resource development processes through generative artificial intelligence. *Human Resource Development Quarterly*, 35(3), 247-256.
- [50] Khan, M. I., Parahyanti, E., & Hussain, S. (2024). The role generative AI in human resource management: enhancing operational efficiency, decision-making, and addressing ethical challenges. *Asian Journal of Logistics Management*, 3(2), 104-125.