



RESEARCH ARTICLE

Digital Transformation and AI in Human Resource Practices – an Analytical Review

^{1*}Agniva Dutta, ²Nishita Paik, Dr. ³Bhaswati Bhattacharya

¹Student, MBA, Future Institute of Engineering & Management, Kolkata, West Bengal, dutta.agniva1998@gmail.com

²Student, MBA, Future Institute of Engineering & Management, Kolkata, West Bengal, nishitapaik99@gmail.com

³Associate Professor, Future Institute of Engineering & Management, Kolkata, West Bengal, bbhattacharya.b@gmail.com

ABSTRACT

Human Resource management has undergone paradigm shift with advent of Digitalization and Artificial Intelligence (AI). With the popularity of remote and hybrid work, virtual work methods turned to be a necessity. The companies adapted various innovative digital and AI-driven technologies like machine learning algorithms, cloud systems, HR analytics etc. This study examines the role of AI and emerging technology in digitalization of core human resource activities like Recruitment, Onboarding, Performance management, Training & development, Employee engagement and HR practices, supported by real life cases of prominent organizations operating in India and the benefits and challenges involved in it. The paper is based on secondary data gathered from different research articles, journals and industry reports. Sources are - Google scholar, Elsevier and Science Direct and so on. Zotero and Asta are used for literature management. Results reveal the extent of use of AI by Indian companies in a wide spectrum of HR management to intensify operational efficiency, strategic decision making and employee engagement in a modern workplace.

Keywords: Digitalization, AI driven Human resource practices, HRM.

INTRODUCTION

The artificial Intelligence driven digital transformation rapidly changed the process of managing HR functions in an organization. Nicholas Agustin (2022) defined "Digitalization as a process of transformation that involves implanting digital technology in HR functions". With the growth in remote and hybrid work methods, it is a necessity to switch to virtual work method, which is possible to attain only by digitalised, AI-enabled systems.

Indian organizations are now using AI in Human resource practices. Though the extent of AI adaptation may vary across organizations, from simple use of employee chatbots to an intricate assessment of the cultural fit of new entrants. AI has proven itself to be effective in all aspects of HRM, like the recruitment and selection process, onboarding, learning and development, performance management, workforce planning, and employee engagement as well. The role of AI in simplifying the recruitment procedure, increasing the efficiency to select the right candidate and decreases the time-to-hire process is growing in rapidly (McDonald et al., 2017). There are many digital onboarding systems which changes the newly-hired employee's experience into more efficient and engaging one (Petrilli et al., 2022).

¹Student, MBA, Future Institute of Engineering & Management, Kolkata, West Bengal

Email-id: dutta.agniva1998@gmail.com

Corresponding Author: Neeru,

Student, MBA, Future Institute of Engineering & Management, Kolkata, West Bengal

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AI helps in learning and development systems to become more individualized, skill-oriented, and user-friendly for employees and improves the ROI. The tedious job of performance management has been transformed through process automation, real-time data collection, and advanced analytics enabled by AI (Alobidyeen et al., 2022). Advanced analytics deliver data-driven insights for strategic workforce planning and decision making (Ashadimas, 2025). AI plays a major role in enhancing employee engagement through intelligent chatbots, sentiment analysis, and a personalized employee support system.

This study examines, real-life cases from different companies operating in India on recruitment, onboarding, training and development, workflow automation, and employee engagement. It highlights the benefits of AI adoption, in the form of increased efficiency, improved employee engagement, and better strategic decision-making. Additionally, it examines the challenges associated with AI dependence, including implementation complexity, data privacy and security risks, unethical practices, and more.

Objective of the Study:

The objectives of this review paper are:

1. To understand the role of AI in the digitalization of core HR functions like recruitment, onboarding, training & development, performance management, HR process automation, and employee engagement.
2. To study real-world applications of AI-driven HR practices through case studies of leading Indian companies.
3. Probe into the advantages and disadvantages of AI for sustainable digital transformation.

Literature Review:

- **Digitalization and AI in Recruitment:** Through technology like AI, machine learning, big data analytics, chatbots, and social media sites, digitalization has revolutionized the recruitment and selection process (Boon Malert, 2017). Through AI, sourcing, screening, interviewing, scheduling, and talent matching have been automated, making the processes more efficient and shorter (Williams, P., & McDonald, P. 2026). AI can even analyse candidates' information and social media accounts to assess cultural and job fit (Upadhyay & Khandelwal, 2018). As such, the processes of recruitment and digitalization will help to increase access, employer branding, engagement, and effectiveness in hiring, particularly when Gen-Z candidates apply for the positions in any organizations (Ananda & Santosa, 2024).
- **Digitalization & Performance Management:** Efficient performance management makes sure that

individual success is guaranteed along with the success of the organization (Mueller Hanson, 2020). Presently, the process has been completely transformed and has become automated form of data collection, analysis, and management (Alobidyeen et al., 2022). Digitalization of PMS regularly monitor and provide feedback to the employees that leads to efficiency and increased productivity (Firdaus & Ambarwati 2024).

- **Digitalization & Onboarding:** Onboarding is the process of inducting & orienting the new employees in the system. It helps the employee to settle properly and adopt the work-related responsibility and organizational culture (Sharma & Stol 2020). A well-designed Onboarding contributes towards employee productivity, engagement and satisfaction. For the remote and virtual workforce AI enabled onboarding is the only solution to induct the new joiners. As research shows AI chatbots facilitate personalized, accessible, and efficient onboarding processes while simultaneously reducing administrative burden on human resources teams (Wandhe 2026).
- **Digitalization and Learning & Development:** Learning & Development (L&D) facilitates the competency & skill development among employees. Training becomes more efficient when AI is incorporated. Online and AI based learning platforms, learning modules, interactive learning system increases engagement and develop employees' skills in a self-paced manner (Kamble et al 2026).
- **Employee Engagement and Digitalization:** The engagement is a measurement from which it can be observed that if employees are involved in their jobs as well as in the organization for which they are working (Kahn, 1990). The concept of engagement has been impacted by the emergence of digitalization, supported by the collaboration technologies, digital communications, and instant feedback, which creates a greater workplace connectivity and engagement (Gupta et al., 2022). Digitalization also promotes the open communication and flexibility, which enhances employee engagement as well (Kamble et al., 2020).
- **Workforce Planning & Digitalization:** Digitalization has transformed the process of workforce planning into a powerful tool of strategic management rather than administrative work (Marler & Boudreau, 2017). Use of AI, machine learning, predictive algorithm in workforce planning enables the continuous and seamless flow of skilled employees (Vrontis et al., 2022). Moreover, in the era of hybrid work culture digital tools have ensure real-time optimization of resource

management and remote personnel allocation (Cappelli & Tavis, 2021). Workforce data analysis is done using AI tools which allows the HR specialists to create an effective talent management strategy (Angrave et al., 2016). It reflects that digitalization, specifically the incorporation of AI and automation, gradually positions HRM as a strategic partner, helping to achieve overall organizational goals (Zhang & Chen, 2024). Almost all verticals of people management are touched by AI.

Research Methodology:

This qualitative study used systematic review of research articles collected from Google Scholar, Elsevier, and ScienceDirect using keywords such as "AI in HRM," "digital HR transformation," and related terms and managed by Zotero and Asta. It also analyses various Industry reports and blogs of reputed Indian companies identifying key themes in AI applications across recruitment, onboarding, training, and employee engagement. and blogs.

Analysis Method: The conceptual analysis method was used to analyse the primary concepts and patterns from the reviewed literature. Topics such as AI, Digital transformation, Employee Engagement, Hybrid work patterns, Workforce analytics, Ethical concerns, and Human Resource Management were analysed and explained.

Research Gap: The existing literature covers theoretical models and individual HR processes separately. Little attention has been paid to the integrated application of AI across various HR processes. Also, very few scholars have used a combination of theoretical knowledge and case studies to explain the practical aspects of implementing AI. This research fills gaps in the existing literature by offering a holistic view of AI applications across various HR processes.

Findings on the Role of AI in Digital Human Resource Transformation:

1. Recruitment and Talent Acquisition:

Recruitment has been revolutionized by AI, through automation of CV screening and matching of skills with those needed for the role. The use of AI chatbots has improved the candidate experience through instant communication and interview scheduling, while skill assessment helps minimize unconscious bias. Predictive tools are used to forecast a hire's success using past data.

- **IBM's Experience:** IBM WatsonX Orchestrate, an Agentic AI and Digital Labor Control Planes, has

replaced HR practices with a single, isolated automation. Rather than replacing the human element, these platforms act as workflow orchestrators that consolidate fragmented HR tech stacks (e.g., Workday, SAP SuccessFactors. (IBM, 2023). According to data from IBM and the IBM Institute for Business Value (IBV), implementing WatsonX Orchestrate digital labor enables knowledge workers and HR specialists to save up to 50% of the time previously spent on repetitive tasks such as manual screening, data toggling, and interview scheduling. Moreover, sourcing and initial screening workflows are reduced from hours to minutes. For instance, recruiters can orchestrate a sequence that identifies qualified passive candidates and autonomously emails up to 300 targeted applicants within minutes. The system reads resumes, identifies relevant skills, matches candidates to open positions, and even schedules interviews automatically (IBM, 2025). This helped recruiters to actually talk to candidates, assess cultural fit rather than spending hours on administrative work. Consequently, faster hiring and a better experience for both recruiters and candidates.

2. **Employee Onboarding:** Usage of AI, helped to onboard new joiners through automation of documents and compliance checks. Interactive digital modules help new employees to understand the company culture and its values. AI-based peer matching helps foster relationships with mentors and colleagues. Engagement tracker monitors the progress of new hires and flags when someone might be struggling.

- **Wipro's Approach:** Wipro Holmes an AI integrated software has revolutionised the employee onboarding hassles of Wipro across different countries and time zones (Mathur, 2021). Wipro Holmes, incorporate automated optical character recognition (OCR), Gen AI-based Service Companions for general conversations, immersive VR-based onboarding, and continuous learning and training platforms. This smoothenes the onboarding process for new hires by covering everything they need to do—signing the Code of Business Conduct, setting up IT access, configuring expense accounts—all without HR having to track each step manually. This software also earned them the prestigious Hackett Group Digital Award in 2021 (Wipro. (2021). It helps them reduce the onboarding cycle duration from 7 to 10 days to 2 to 3 days, speed up background verification, increase the candidate experience score from 60+ to 90+, and, in the post-transformation AI era, raise overall

financial efficiency to 25 million and above. According to Putul Mathur, Wipro's VP and Global Head of HR Shared Services, hyper-automation and AI slashed the processing time but also optimized their HR headcount efficiency by over 30%, transforming onboarding from a lengthy, transactional administrative burden into an agile tool for talent retention.

3. **Performance Management:** AI has revolutionized performance management through continuous data-driven appraisals in the hybrid workplace environment helping to analyse patterns in working methods and project progress, offering instant feedback and facilitating objectivity in the appraisal process through measurable results. AI facilitates the collection of unbiased multi-source feedback.
 - **Google's GRAD:** Google manages its workforce performance management through a centralized framework called Google Reviews & Development (GRAD). Google has structurally related employee evaluations to the active adoption of proprietary AI agents—such as its internal coding assistant 'Goose' and tailored enterprise Gemini chatbots, and Gemini AI ecosystem (Srivastava, 2026). Under this methodology, performance tracking is totally data-driven; the platform analyses the 'AI-driven impact' of both technical and non-technical workers, operating at a scale where about 50% of the company's internal software output is generated by autonomous agents before human review.
4. **Learning and Development:** Learning & Development (L&D) verticals is automated by offering tailor-made, individual need-specific training programs. It facilitates identifying skill gaps, creating personalized content, adjusting content based on the candidate's progress, and continuously evaluating training efficacy and its impact on employee performance (Bersin, 2021).
 - **Accenture's Implementation:** Accenture for its 700,000 employees took the help of their AI-powered Learn Vantage platform continuously to assesses data-driven task analysis to cross-examine over 250,000 work activities to identify employee skills compare against market demands and career goals, pinpointing specific skill deficits (Accenture, 2025). Then it builds a personalized learning plan—specific courses, projects, mentoring opportunities—to bridge those gaps. Backed by an annual learning investment of over \$1.1 billion, the platform scales personalized learning paths across a global workforce, managing roughly 44 million training hours annually (Accenture, 2024). This structured ecosystem shifts corporate upskilling

from an administrative box-checking exercise into an agile tool for talent mobility, delivering documented productivity gains of up to 20% by embedding responsive, simulation-based coaching into employees' everyday workflows.

5. **Workforce Planning:** Workforce planning helps in having the right people and skills available for meeting organizational goals. Previously, it relied heavily on gut feeling and spreadsheets. AI assists in workforce planning through predictive analysis, real-time intelligence, demand forecasting, skill mapping, attrition analysis, and scenario planning to support proactive workforce planning decisions (Minbaeva, 2021; Marler & Boudreau, 2017).
 - **Unilever's Talent Marketplace:** AI-driven skills matching to align employees' competencies, experience, and interests with internal projects and roles across the organization (Gloat, 2024; Unilever, 2023). This approach enhances workforce agility by facilitating rapid cross-functional talent redeployment, increasing internal mobility, and reducing dependence on external recruitment (Vrontis et al., 2022). Empirical evidence indicates that the platform has unlocked over 500,000 hours of workforce capacity, improved team productivity by 41%, and enabled the rapid redeployment of employees during business disruptions (Green, 2021; Deloitte Insights, 2020). In addition, the platform has reduced external hiring costs by 30%, highlighting the strategic value of AI in improving talent optimization and organizational flexibility (Unilever, 2023).
6. **Employee Engagement:** Employee engagement reflects the motivation, emotional commitment, involvement of the employees towards their work and organization. AI powered engagement tool, amidst the challenge of hybrid and remote work scenario, helps HRs to improve employee collaborate, to monitor their work and to cast suitable strategies to increase the employee engagement as a whole. AI enhances employee engagement through intelligent chatbots, sentiment analysis, and personalized support systems for the employees.
 - **Tata Consultancy Services' Wisdom Next:** Tata Consultancy Services (TCS) introduced AI Wisdom Next, an enterprise Generative AI orchestration platform designed to help organizations securely deploy and govern AI applications across business functions, including Human Resource Management (Tata Consultancy Services, 2024) helping the HRs to analyse

employee interaction and feedback, help them to identify employee engagement trend and help for timely intervention. TCS Wisdom Next creates more than 100 Large Language models (LLMs) which can connect with many AI tools and softwares throughout the company. It helps in building a safe and ethical platform for employee's queries, personalised assistance and apt for a big organization like TCS.

Strength & Drawbacks of Using Ai In Hrm:

Organizations gradually shift towards usage of AI for practical purposes which are as follows-

- **Efficient Operations:** AI powered cloud-based documentation helps employees to be more efficient. They can access, share and manage documents from anywhere. These improves fast decision making, reduce wastage of time, enable collaboration, and increase organizational efficiency (Budhwar et al 2022).
- **Data based Decision:** Modern Hr dashboards and analytical tools help the managers to make accurate evidence-based predictions and decisions. No longer they need to rely on manual analysis of historical data (Tambe et al 2019).
- **Personalised Workplace:** Digital HR technologies such as personalised employee portals and AI supported chatbots helps the employee to access

Conclusion:

The digitalization and integration of AI into human resource management represent a paradigm shift, changing the very way human resource manager's function. This review paper demonstrates that AI offers an accurate, robust, and highly scalable mechanism to optimize workforce management, and that big multinational and national companies are utilizing AI to manage different dimensions of HR practices.

However, true sustainability of digital transformation cannot be measured by processing speed or cost reduction parameters. The findings reveal a distinct socio-technical paradox: AI streamlines and speeds up processes and enhances efficient performance on one hand and oppositely leads to ethical hazards like data safety, systematic algorithmic discrimination, and a toxic surveillance culture reducing trust and psychological comfort among employees.

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information and complete HR related task virtually without the help of any assistance from HR department (Venkatesh 2020).

- **Remote Team management:** AI-enabled tools help the team manager to coordinate and control his remote team members. He can assign responsibilities, monitor progress of team working in different time zones through these tools (Charlwood & Guenole, 2022).
- **Drawbacks of AI:** AI has many disadvantages along with the benefits. Organizations need to address privacy issues, legal compliance, ethical considerations related with AI (Budhwar et al 2022). Moreover, Machine learning models trained on flawed historical data inevitably codify and amplify systemic biases which are reflected in different HR process (Dastin, 2018). Some employees might feel threatened by the introduction of such technologies because of concerns about losing their jobs or being monitored excessively. It might foster a surveillance culture, negatively affecting employees' work (Cloud, 2020). The last issue to mention is AI's inability to address employees' emotional needs, resolve conflicts, and provide career guidance (Charlwood & Guenole, 2022). Therefore, AI should be considered as a useful supporting technology rather than an alternative to human judgment.

A few steps are needed to curb the negative side. Firstly, we need to put a human touch in the loop. The AI can automate candidate shortlisting, performance appraisal, and even attrition flagging, but the final review should be made by human intelligence. AI is to help HI, not to replace it. Moreover, constant algorithmic audit, adaptation of privacy-by-design architecture, and strict adherence to the Data Privacy Act are also encouraged. The development of some socio-economic buffers to incorporate a human touch in complex issues like mental well-being, conflict resolution, growth, and succession can be beneficial. The untamed power of AI needs to be harnessed by Human cognitive and affective abilities and channelizing it for social good for employees and organizations.

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