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## HR UNLEASHED: THE AI REVOLUTION

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#### ABSTRACT

"HR Unleashed: The AI Revolution" delves into the dynamic intersection of Artificial Intelligence (AI) and Human Resource Management (HRM). In this exploration, we navigate the transformative potential of AI in reshaping HR practices, from recruitment and talent management to employee engagement and data-driven decision-making. As AI becomes increasingly intertwined with HR processes, this abstract underscores the promise and challenges that organizations face in this AI-driven era. We highlight the critical role of responsible AI adoption, ethical considerations, and the importance of human expertise in leveraging AI as a tool for HR enhancement. Embracing the AI revolution in HR promises a future where organizations can gain a competitive edge in nurturing a workforce that thrives in the digital age, fostering innovation and success.

Keywords: Human Resource Management, artificial Intelligence, HRM function

### **INTRODUCTION**

In today's rapidly evolving business landscape, the role of Human Resource Management (HRM) is undergoing a profound transformation. Traditional HR practices, which often relied on manual processes and paperwork, are giving way to a new era of HRM powered by Artificial Intelligence (AI). This paradigm shift is not merely a technological upgrade but a strategic imperative for organizations aiming to thrive in the digital age. Artificial Intelligence, with its capacity for automating repetitive tasks, analyzing vast data sets, and providing valuable insights, has emerged as a game-changer in HRM. By leveraging AI technologies, HR professionals can streamline recruitment, enhance employee engagement, optimize talent management, and make data-driven decisions that foster organizational growth and success. This transformation isn't without its challenges and ethical considerations. As AI becomes increasingly integrated into HR processes, it raises questions about privacy, fairness, and the human touch in personnel management. Striking the right balance between automation and the human element is a crucial aspect of navigating this AI-powered future. In this exploration of "Embracing the Future: Artificial Intelligence in Human Resource Management," we delve into the ways AI is reshaping HRM practices, the benefits it brings to both employees and employees, and the ethical considerations that must be addressed. We will also examine case studies, best practices, and emerging trends in AI-powered HRM, offering valuable insights to organizations looking to harness the full potential of AI in shaping their HR strategies for the future. As we embark on this journey, we aim to illuminate the transformative power of AI in HRM and guide professionals in navigating this exciting frontier with confidence and responsibility.

#### **OBJECTIVES OF THE STUDY**

- Investigating the fundamental principles of Artificial Intelligence.
- Examining the part played by Artificial Intelligence within the domain of Human Resource Management.
- Scrutinizing the merits and advantages that Artificial Intelligence brings to the field of Human Resource Management.
- Assessing the obstacles and difficulties posed by the integration of Artificial Intelligence in the Human Resource Department.



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#### **RESEARCH METHODOLOGY**

"The study employs a descriptive research approach to investigate the subject matter. The researcher utilized secondary data sources for the research inquiry, which were obtained from a range of academic publications, books, blogs related to human resources, websites, as well as research reports published by different research organizations."

### **REVIEW OF LITERATURE**

**Nigaar Patel (2023)** "In today's fiercely competitive business landscape, the accurate collection and analysis of data are of paramount importance for both daily operations and the overall growth of enterprises. Artificial Intelligence (AI) serves as a catalyst, enabling industries to expedite tasks with enhanced efficiency. AI is finding its way into various departments, encompassing areas such as human resources, finance, marketing, and production. Organizations are increasingly leveraging AI systems to gain insights into their current performance and streamline daily operations. Driven by mounting financial pressures, discerning leaders are recognizing the invaluable role of AI within the workplace. This research study relies on secondary data sources, drawn from an array of references, including books, journals, websites, and blogs related to human resources, among others. The primary objective of this research was to explore the functionality of AI within the HR department and to identify the challenges associated with its implementation. It becomes evident that AI has a more substantial role to play in the realm of human resources than previously envisaged. Robotics companies are now adept at managing tasks such as recruitment, data analysis, workload reduction, and overall workplace efficiency enhancement."

**Eniola Sanyaolu (2022)** "In the evolving landscape of business, Human Resource Management (HRM) grapples with fresh challenges, necessitating proactive strategies to foster organizational growth and development. This research delves into the integration of Artificial Intelligence (AI) technology within human resource departments, particularly in the domains of recruitment and selection, onboarding, employee retention, compensation management, and overall employee administration. The infusion of AI into HRM practices is reshaping how companies approach recruitment, management, and engagement of their workforce. AI's utilization empowers machines to make precise decisions based on historical data and behavioral patterns, surpassing human capabilities in this regard. Consequently, manual labor has been largely supplanted by automation, prompting HR professionals to assume more strategic roles. The advantages of deploying AI across various HRM functions are expounded upon, along with a discussion of the challenges encountered in the implementation of AI in HRM. This paper also explores the benefits of AI for organizations aspiring to enhance the effectiveness and efficiency of their human resource operations."

**Rich Verma** (2019) "This paper explores the application of artificial intelligence (AI) in the realm of human resources, driven by the evolving technology landscape in the IT sector. The widespread adoption of AI is witnessed across numerous IT companies, primarily aimed at enhancing the efficiency of HR processes. This transformative journey commences with the automation of recruitment procedures and extends to encompass the evaluation of employee performance. Business leaders and HR professionals hold the belief that the integration of artificial intelligence into HR functions, including onboarding and benefits administration, holds the potential to significantly enhance the overall employee experience. The researcher engage in a comprehensive discussion covering both perspectives on artificial intelligence, acknowledging that individuals view AI as both a boon and a potential threat to job security. To substantiate our study, we have analyzed notable companies that have embraced artificial intelligence as a focal point. Our focus centers on the challenges and constraints associated with the utilization of AI in the current industrial landscape. Additionally, we offer insights into the future aspirations and prospects of artificial intelligence within this context."

**P.R.Palos Sanchez (2022)** "In contemporary organizational settings, Artificial Intelligence (AI) is progressively gaining prominence. In the specific context of Human Resource Management (HRM), the relevance of AI has surged in recent years. This article seeks to conduct a bibliometric analysis of scholarly literature that



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comprehensively explores the utilization and impact of AI within the realm of HRM. The research draws from esteemed scientific databases, specifically Web of Science and Scopus, yielding an initial dataset of 156 articles. Subsequently, 73 articles were meticulously chosen for in-depth analysis. The collected data was processed utilizing the Bibliometrix tool, which provided insights into various aspects, including yearly publication trends, journal analyses, influential authors, document statistics, and noteworthy keywords. The findings derived from this analysis underscore the burgeoning nature of AI's application in HRM, characterized by consistent growth and a positive outlook for the future. However, it is essential to note that the research in this domain possesses a distinct focus, with the majority of studies concentrated on AI's application in recruitment and selection processes. This specialization underscores the untapped potential within other sub-areas of HRM that are equally ripe for AI application."

**S.N.Premnath** (2019) "In recent years, Artificial Intelligence (AI) has experienced remarkable growth, positioning itself as an indispensable tool for organizations worldwide, ushering them into an era of enhanced efficiency and smart operations. However, the adoption of this transformative technology in India has been marked by hesitancy and a gradual pace, particularly noticeable within the domain of Human Resources (HR). This article primarily aims to delve into the application, advantages, challenges, and constraints associated with integrating AI into HRM, focusing on the unique context of India. To gather insights, responses were obtained from a diverse group of senior HR professionals through a range of interview methods, employing purposive sampling. This research adopts an exploratory approach, leveraging the data collected during interviews to unveil the various ways in which AI is harnessed within HR functions. It also sheds light on the hurdles encountered during technology implementation and highlights the benefits derived from AI utilization. The study holds significant relevance for organizations striving to augment the effectiveness and efficiency of their HRM operations by harnessing the potential of AI."

**Marwan Mohamed (2020)**"The primary objective of this research is to gain insights into the utilization of Artificial Intelligence (AI) within the field of human resources, with a particular focus on its application within the Kingdom of Bahrain. This study endeavors to offer a forward-looking perspective by investigating the perceptions and viewpoints of HR professionals through various frameworks. The findings of the research highlight that, in alignment with the Kingdom of Bahrain's vision for the year 2030, the public sector is poised to seize significant opportunities for aligning with digital transformation. This transformative shift has resulted in notable changes in the workforce composition within business organizations, fostering gender equality as both women and men increasingly compete for various roles. Consequently, this evolution places new responsibilities on human resources management. Additionally, it fosters greater integration of gender equality within the workforce.

In light of the dynamic and ever-changing business landscape, this research underscores the pressing importance of adopting modern Artificial Intelligence (AI) applications, particularly for organizations operating in environments marked by volatility and uncertainty."

**Fadi Sakka** (2022) "This paper offers a comprehensive examination of the integration of Artificial Intelligence (AI) into the realm of Human Resource Management (HRM) through a three-pronged approach. The first aspect involves the exploration of AI-assisted decision-making, which holds the potential to liberate HR personnel from routine tasks, allowing them to focus more selectively on strategic endeavors. The second dimension pertains to the transformative impact of AI on the HR function within organizations. AI facilitates a shift from a reactive stance to a proactive one, elevating HR departments to hubs of strategic decision-making. The third facet addresses the financial implications of AI adoption, where decision-making is increasingly guided by costbenefit analysis, and it outlines the legal considerations concerning anti-discrimination policies and regulatory frameworks. While AI promises significant enhancements in organizational performance, its success hinges on meticulous implementation. This necessitates appropriate recruitment practices, the upskilling of HR staff to act as effective mediators between AI-generated assessments and human stakeholders, and a commitment to internal



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transparency to ensure that AI serves as a facilitator of trust and commitment in the workplace, rather than an instrument of control."

**Pawan Budhwar (2023)** ChatGPT and its variants, powered by generative artificial intelligence (AI) models, have swiftly become focal points in academic and media dialogues. These discussions revolve around their potential benefits and drawbacks, spanning multiple sectors of the economy, democracy, society, and the environment. There remains uncertainty regarding whether these technologies lead to job displacement or creation, or if they merely shift human labor by generating new information and decisions, some of which may be trivial or practically irrelevant. The CEO of ChatGPT has likened the potential impact of this new AI technology to that of the "printing press," suggesting it holds profound implications for employment, stakeholder relationships, business models, and academic research. Yet, the full scope of its consequences remains largely uncharted and uncertain. The emergence of more advanced and potent generative AI tools in the market, following ChatGPT's launch, has intensified what can be called the "AI arms race." This dynamic fuels ongoing uncertainty for workers, expands the applications of AI in various industries, while also heightening concerns related to well-being, bias, misinformation, context insensitivity, privacy, ethical dilemmas, and security. Given these developments, this editorial perspective offers a compilation of viewpoints and research directions to further HRM scholarship in the domain of generative AI. In doing so, it integrates the existing literature on AI and generative AI, linking it to various facets of HRM processes, practices, relationships, and outcomes. This contribution aims to shape the future of HRM research in the context of rapidly evolving AI technologies.

#### SynthoMind: The Realm of Machine Intelligence

The concept of Artificial Intelligence (AI) refers to the simulation of human intelligence in computer systems and machines, enabling them to perform tasks that typically require human intelligence. AI encompasses a wide range of techniques, including machine learning, neural networks, natural language processing, and robotics, among others. The primary goal of AI is to create systems that can think, reason, learn, and adapt in ways that mimic human cognitive abilities. Machine Learning: A subset of AI that involves training machines to recognize patterns and make predictions based on data. Machine learning algorithms enable systems to improve their performance over time through experience. Deep Learning: A specialized form of machine learning that uses artificial neural networks with multiple layers to model complex patterns and representations. Deep learning has been instrumental in breakthroughs in areas like image and speech recognition. Natural Language Processing (NLP): The field of AI that focuses on enabling machines to understand, interpret, and generate human language. NLP powers applications like chatbots, translation services, and sentiment analysis. Computer Vision: AI systems equipped with computer vision can interpret and understand visual information from the world, enabling tasks such as image recognition and object detection. Robotics: AI-driven robots are designed to interact with their environments, make decisions, and perform physical tasks. They are used in various industries, from manufacturing to healthcare. Expert Systems: These are AI programs that mimic the decision-making abilities of human experts in specific domains. They use knowledge representation and rule-based reasoning to provide solutions and recommendations. Reinforcement Learning: A type of machine learning where an agent learns to make decisions by interacting with an environment. It involves receiving rewards or penalties for actions taken, driving the agent to learn optimal strategies. Artificial General Intelligence (AGI): AGI refers to AI systems that possess human-like intelligence and can perform any intellectual task that a human can do. Currently, AI systems are more specialized and lack the broad capabilities of AGI. Ethical and Responsible AI: As AI becomes more pervasive, there is growing emphasis on developing AI systems that adhere to ethical principles, are transparent, and avoid biases and discrimination. AI Applications: AI is used across various domains, including healthcare (diagnosis and treatment), finance (algorithmic trading and fraud detection), transportation (selfdriving cars), entertainment (recommendation systems), and more.

#### **Role of Artificial Intelligence in Human Resource Management**

Artificial Intelligence (AI) plays a pivotal role in transforming various aspects of Human Resource Management (HRM) by automating and enhancing traditional HR processes.



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#### Here are some key roles of AI in HRM:

Efficient Recruitment and Selection: AI-driven algorithms can sift through large volumes of resumes and applications to identify the most suitable candidates based on predefined criteria. This reduces the time and effort required for initial candidate screening.

Candidate Matching: AI can match candidate profiles with job descriptions more accurately, ensuring that job roles are filled by candidates with the right skills and qualifications.

**Chatbots for Initial Queries**: Chatbots can handle routine queries from job applicants and employees, providing instant responses to common questions about job openings, company policies, and benefits.

**Employee Onboarding:** AI can streamline the onboarding process by automating paperwork, providing information to new hires, and assisting with training and orientation.

**Predictive Analytics for Employee Retention:** AI can analyze historical data to predict which employees are at risk of leaving the company. This allows HR to take proactive steps to improve retention.

**Performance Management:** AI can help in evaluating employee performance by analyzing various data points and providing insights to managers. This can lead to more data-driven performance appraisals.

**Employee Feedback and Sentiment Analysis:** AI-powered surveys and sentiment analysis tools can gather and analyze employee feedback to gauge employee satisfaction and identify areas for improvement.

**Learning and Development:** AI can personalize training programs based on individual employee needs and learning styles, making learning more effective and efficient.

**Talent Management:** AI can assist in identifying high-potential employees and in succession planning by analyzing performance data and identifying leadership traits.

**Workforce Planning:** AI can help in forecasting future workforce needs based on business goals and market trends, allowing HR to plan recruitment, training, and development accordingly.

**Diversity and Inclusion**: AI can help in reducing bias in recruitment and promotion decisions by ensuring that candidates are evaluated based on objective criteria.

**Compliance and Data Security**: AI can assist in ensuring that HR processes comply with legal and regulatory requirements. It can also enhance data security by detecting and preventing breaches.

**Employee Benefits Management**: AI can assist in managing employee benefits packages, helping employees make informed choices about health insurance, retirement plans, and other benefits.

Time and Attendance Tracking: AI can automate time and attendance tracking, reducing errors and ensuring accurate payroll processing.

**Employee Wellness Programs**: AI can provide insights into employee well-being by analyzing health and wellness data, allowing HR to design effective wellness programs.

#### "HRM Enrichment: AI's Impact on Workplace Success"

Artificial Intelligence (AI) offers numerous benefits in the field of Human Resource Management (HRM), transforming HR processes and enhancing overall efficiency. Here are some of the key advantages of AI in HRM:

**Efficient Recruitment**: AI algorithms can quickly and accurately screen resumes, saving time and effort in the initial stages of recruitment. This ensures that HR professionals can focus on more strategic aspects of candidate selection.

**Enhanced Candidate Matching**: AI can match candidate profiles with job descriptions more precisely, resulting in better-quality hires and reducing turnover rates.



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**Cost Reduction**: AI-driven automation reduces the need for manual data entry and administrative tasks, lowering operational costs in HR departments.

**Improved Employee Experience**: Chatbots and virtual assistants powered by AI can provide instant responses to employee queries, enhancing the overall employee experience by delivering timely support and information.

**Data-Driven Decision-Making**: AI can analyze vast amounts of HR data to provide insights for decisionmaking. It can predict employee turnover, identify skills gaps, and recommend training and development programs.

**Personalized Learning and Development**: AI can tailor training and development programs to individual employee needs, ensuring that learning is more effective and relevant.

**Enhanced Performance Management**: AI can provide continuous feedback and performance analytics, assisting managers in identifying areas for improvement and recognizing high-performing employees.

**Talent Management**: AI can help identify and nurture high-potential employees, facilitating succession planning and talent management strategies.

**Diversity and Inclusion**: AI can help mitigate bias in HR processes, promoting diversity and inclusion by ensuring fair and objective evaluations of candidates and employees.

**Predictive Analytics**: AI can predict future workforce needs, helping HR departments plan for recruitment, succession, and workforce development effectively.

**Employee Engagement**: AI-powered surveys and sentiment analysis tools can gauge employee sentiment and engagement levels, enabling HR to take proactive measures to improve workplace satisfaction.

**Time and Attendance Management**: AI automates time and attendance tracking, reducing errors and ensuring accurate payroll processing.

**Compliance and Security**: AI can assist in ensuring that HR processes comply with legal and regulatory requirements, improving data security by detecting and preventing breaches.

**Employee Benefits Management**: AI can guide employees in selecting benefits packages and retirement plans that best suit their needs, promoting overall well-being.

**Workforce Planning**: AI helps HR departments align their strategies with business goals by forecasting workforce needs, ensuring that the organization has the right talent at the right time.

**Global HR Operations**: AI-powered translation tools can bridge language barriers in multinational organizations, facilitating global HR operations and communication.

**Employee Wellness**: AI can analyze health and wellness data to identify trends and risks, enabling HR to design and implement effective wellness programs.

**Time Savings**: By automating repetitive tasks, AI frees up HR professionals to focus on strategic initiatives, employee engagement, and relationship-building.

#### **Challenges for AI in HRM**

**Data Privacy and Security:** The use of AI involves handling sensitive employee data. Ensuring data privacy and security is crucial to comply with regulations like GDPR and to maintain employee trust.

**Bias and Fairness:** AI algorithms can inherit biases from historical data. HRM systems must be carefully designed to avoid discrimination based on race, gender, or other protected characteristics.

**Transparency:** AI decision-making can be opaque, making it challenging to explain why a particular decision was made. Ensuring transparency in AI processes is essential for accountability.



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**Data Quality:** AI relies on high-quality data. Inaccurate or incomplete data can lead to flawed insights and decisions.

**Skill Gap:** HR professionals may lack the necessary skills to implement and manage AI systems effectively. Bridging this skill gap is essential for successful AI integration.

**Change Management:** Introducing AI can face resistance from employees who may fear job displacement or changes in HR processes. Effective change management is needed to address these concerns.

**Cost of Implementation**: Implementing AI systems can be expensive, especially for smaller organizations. Cost-effectiveness and ROI need to be carefully evaluated.

**Ethical Dilemmas**: AI may raise ethical dilemmas, such as monitoring employee behavior or using AI in hiring practices. Organizations need clear ethical guidelines.

**Over-Reliance on AI**: There's a risk of over-reliance on AI, leading to reduced human interaction in HR processes. Striking the right balance is essential.

**Regulatory Compliance**: Complying with evolving AI and data protection regulations can be challenging and requires ongoing monitoring and adaptation.

**User Experience**: If AI tools are not user-friendly, they may not be adopted effectively by HR professionals, impacting their efficiency and effectiveness.

**Integration with Legacy Systems**: Integrating AI with existing HR systems and processes can be complex and may require substantial modifications.

**Scalability**: As organizations grow, the scalability of AI systems becomes critical to accommodate an increasing number of employees and data points.

**Measuring ROI**: Measuring the return on investment (ROI) of AI implementations in HR can be challenging due to the indirect and long-term nature of many HR outcomes.

**Unforeseen Challenges**: AI can introduce unexpected challenges or errors that may not be immediately apparent, requiring continuous monitoring and improvement.

Overcoming these challenges requires a strategic approach, ongoing training, and a commitment to responsible and ethical AI use in HRM. Organizations that successfully address these challenges can unlock the full potential of AI to enhance their HR processes and ultimately improve workforce management.

### CONCLUSION

Artificial Intelligence in Human Resource Management" illuminates the transformative potential of Artificial Intelligence (AI) in revolutionizing HR practices. Throughout this exploration, we've witnessed how AI is reshaping recruitment, talent management, employee engagement, and overall HR operations. It has emerged as a catalyst for efficiency, data-driven decision-making, and improved employee experiences. While the promise of AI in HRM is immense, it is essential to navigate the challenges surrounding data privacy, bias mitigation, transparency, and ethical considerations. Moreover, the human element remains irreplaceable in HR, as AI is best harnessed as a tool to augment HR professionals' capabilities rather than replace them. As we stand at the precipice of a future enriched by AI, organizations that strategically embrace this technology and invest in its responsible implementation are poised to gain a competitive edge in recruiting, retaining, and developing talent. The journey towards the intelligent HR landscape is ongoing, promising a dynamic synergy between technology and human expertise. It is a future where HRM reimagines its role in creating a workforce that thrives in the digital age, and in turn, propels organizations towards greater success.



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