THE IMPACT OF ARTIFICIAL INTELLIGENCE (AI) ON THE TRADITIONAL RECRUITMENT PROCESS

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Abstract: The rapid advancement of technology, driven by globalization, has compelled organizations to adopt innovative approaches to remain competitive. Human Resource Management (HRM), particularly recruitment, has been significantly influenced by Artificial Intelligence (AI), which automates and enhances processes that were once manual. This study explores the impact of AI on recruitment, focusing on its ability to improve efficiency, minimize biases, and elevate the candidate experience. Through qualitative research, insights were gathered from HR professionals who actively utilize AI in hiring processes. The findings reveal that AI streamlines recruitment by automating tasks such as resume screening and interview scheduling, resulting in time and cost savings. Additionally, AI-powered tools contribute to more objective candidate evaluations, helping to mitigate unconscious bias. However, human oversight remains crucial to ensure fairness, ethical decision-making, and the consideration of factors beyond data-driven assessments. AI also enhances the candidate experience by providing personalized recommendations and real-time feedback. While AI significantly optimizes recruitment, the synergy between technology and human expertise is essential for achieving balanced and effective hiring outcomes.

Keywords: Artificial Intelligence (AI), Recruitment, Human Resource Management (HRM), Hiring Process, Automation.

I. INTRODUCTION

The rapid advancement of technology has significantly influenced various sectors, including Human Resource Management (HRM). Over the past few decades, organizations have increasingly integrated digital tools to streamline operations, improve efficiency, and gain a competitive edge (Brynjolfsson & McAfee, 2017). Among these technological innovations, Artificial Intelligence (AI) has emerged as a transformative force, reshaping traditional business practices and decision-making processes (Makridakis, 2017). AI-driven automation has revolutionized industries such as healthcare, finance, and manufacturing, enabling businesses to enhance productivity, reduce costs, and optimize resource allocation (Russell & Norvig, 2021). As AI continues to evolve, its impact on human-centric domains such as HRM is becoming more pronounced, raising discussions about its potential benefits and ethical considerations (Bostrom & Yudkowsky, 2014).

Recruitment, a fundamental aspect of HRM, has undergone significant changes with the advent of digitalization. Traditional hiring processes, which relied heavily on manual screening and face-to-face interviews, have gradually been replaced by technology-driven methods (Stone et al., 2015). Online job portals, applicant tracking systems (ATS), and AI-powered recruitment software have streamlined candidate sourcing, screening, and assessment, making the hiring process more efficient (Van Esch & Black, 2019). Moreover, AI tools such as machine learning algorithms and natural language processing (NLP) facilitate data-driven decision-making, helping recruiters identify the best-fit candidates based on predictive analytics (Leicht-Deobald et al., 2019). Despite these advantages, concerns regarding algorithmic bias, transparency, and the diminishing human touch in recruitment have sparked debates on the ethical implications of AI-driven hiring practices (Raghavan et al., 2020).

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As organizations strive to balance efficiency and fairness, the role of AI in recruitment continues to evolve. While AI offers solutions to enhance hiring accuracy and reduce human biases, it also presents challenges related to privacy, accountability, and compliance with legal frameworks (Tambe et al., 2019). Policymakers, researchers, and HR professionals must work collaboratively to establish guidelines that ensure AI-driven recruitment aligns with ethical and regulatory standards (Bogen & Rieke, 2018). The ongoing discourse on AI's role in HRM highlights the need for a comprehensive understanding of its impact, limitations, and potential future developments.

A. Background and Context

In an increasingly globalized business environment, companies must adopt technological advancements to maintain a competitive edge (Erixon, 2018). Human Resource Management (HRM) plays a crucial role in organizational success, with recruitment being a key function in attracting and retaining top talent (Chamorro-Premuzic et al., 2017). Traditional recruitment methods were often time-consuming and labor-intensive, but the rise of online recruitment has streamlined these processes, enhancing efficiency (O'Donovan, 2019). Recent developments in HRM have focused on integrating technology, with AI and predictive analytics emerging as transformative tools that reduce manual effort and improve candidate selection (Baxter, 2018; Bondarouk & Brewster, 2016). Given AI's multidisciplinary nature, its applications extend beyond computing to fields such as linguistics and philosophy, contributing to advancements in HR practices (Tecuci, 2012).

AI is reshaping recruitment by automating routine tasks, enabling organizations to enhance efficiency and decision-making (Upadhyay & Khandelwal, 2018). It minimizes biases, optimizes candidate matching, and accelerates the hiring process, allowing recruiters to focus on strategic decision-making (Bogen & Rieke, 2018). As businesses increasingly rely on AI-driven solutions, the need to understand its impact on recruitment has grown (Cappelli, 2019). This research explores how AI can create more effective, fair, and technologically advanced recruitment practices, transforming how organizations identify, evaluate, and hire candidates in a rapidly evolving job market.

B. Research Problem

Currently, recruiters manually review applications, communicate with candidates, and conduct interviews, making the hiring process time-consuming and prone to human biases (O'Donovan, 2019). Limitations such as unconscious bias and time constraints often prevent companies from securing the best candidates, leading to potential financial losses (McRobert et al., 2018; Baron, Musthafa, & Agustina, 2018). Despite the rise of technology in HRM, research on AI-driven recruitment remains scarce, with previous studies emphasizing the need for more empirical exploration of digital hiring methods (Chapman & Webster, 2003; Searle, 2006). Marler and Fisher (2013) argue that a significant gap still exists in understanding how new technologies influence recruitment. Consequently, organizations remain uncertain about whether AI presents opportunities or challenges in HRM (Stone et al., 2015; Bondarouk & Brewster, 2016). This study aims to address these gaps by analyzing AI's impact on recruitment and its implications for HR professionals (Chamorro-Premuzic et al., 2017; Cappelli, 2019).

C. Research Purpose

The purpose of this thesis is to explore and analyze the impact of Artificial Intelligence (AI) on the recruitment process within Human Resource Management (HRM). Given the rapid advancements in AI technology and its increasing integration into various business functions, this research aims to provide a comprehensive understanding of how AI can be leveraged to enhance recruitment practices and possibly increase effectiveness.

D. Research Questions

- What are the limitations of traditional recruitment processes?
- How does AI influence the efficiency and effectiveness of recruitment?
- What are HR professionals' perceptions and attitudes toward AI in recruitment?

E. Significance of the Study

This study is significant as it bridges the gap between technological advancements and practical applications in recruitment, a core function of human resource management (HRM). Artificial intelligence (AI) is revolutionizing recruitment processes by improving efficiency, reducing bias, and enhancing candidate matching. AI tools such as applicant tracking systems and predictive analytics streamline candidate screening, enabling faster and more precise hiring decisions (Brynjolfsson &

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McAfee, 2014). This research adopts a qualitative approach to understand the perceptions of HR professionals regarding AI's practical benefits and challenges, offering actionable insights into its real-world impact.

Furthermore, this study contributes to existing theoretical frameworks such as Technological Determinism and Institutional Theory by analyzing how AI adoption transforms HR practices and how organizations respond to external pressures for technological integration (DiMaggio & Powell, 1983). It also evaluates organizational readiness for AI, providing insights for policymakers and HR practitioners. Policymakers can use the findings to develop ethical guidelines for AI use in recruitment, while HR professionals can better understand the opportunities and challenges AI presents, enabling strategic decision-making.

F. Scope and limitations

This research is confined to examining companies that have already integrated AI technologies into their recruitment processes, thereby excluding those relying solely on traditional methods or just beginning to explore AI adoption. The study primarily focuses on regions or countries where AI in recruitment is more advanced, potentially limiting the applicability of findings to other areas with varying technological adoption levels and HR practices. Additionally, the research emphasizes specific industries where AI usage in recruitment is more developed, which may not fully represent other sectors (Chapman & Webster, 2003; Marler & Fisher, 2013). These boundaries are essential to consider for accurately interpreting the study's conclusions.

II. LITREATURE REVIEW

Human Resource Management (HRM) plays a crucial role in aligning human capital with organizational goals, ensuring that companies remain competitive in an evolving global market. Scholars such as Armstrong and Taylor (2014) define HRM as a strategic function focused on workforce management, encompassing recruitment, training, and employee relations. Storey (1995) emphasizes HRM's ability to create a committed workforce, contributing to long-term organizational success. Additionally, Boxall and Purcell (2011) highlight the interplay between HRM and broader economic and social contexts, reinforcing its significance in driving sustainable growth. As organizations increasingly integrate technology into their operations, HRM must adapt to new tools and methodologies that enhance efficiency and decision-making processes.

Recruitment, as a fundamental aspect of HRM, involves attracting and selecting suitable candidates to fulfill organizational needs. Effective recruitment ensures that the right individuals are placed in roles that align with both their competencies and the company's strategic objectives (Armstrong, 2014). Traditional recruitment methods, which relied on manual processes such as newspaper advertisements, referrals, and face-to-face interviews, were effective but often time-consuming and limited in scope (Yoder, 1957; Breaugh, 2008). However, with the advent of globalization and technological advancements, recruitment has undergone a transformative shift. Digital platforms and artificial intelligence (AI) have streamlined talent acquisition, enabling organizations to access a broader candidate pool and optimize selection processes (Tarique & Schuler, 2010; Dineen & Soltis, 2011).

AI has emerged as a revolutionary force in recruitment, reshaping the way organizations identify, evaluate, and hire candidates. AI-driven tools such as IBM's Watson Candidate Assistant and HireVue leverage machine learning algorithms to automate tasks like resume screening, candidate matching, and video interview analysis (Lee, 2007). These advancements enhance efficiency, reduce human bias, and improve the overall candidate experience (Upadhyay & Khandelwal, 2018). Moreover, predictive analytics allows recruiters to assess candidates' potential performance and cultural fit with greater accuracy, thereby improving hiring outcomes (Baxter, 2018). However, despite its benefits, AI in recruitment presents notable challenges, including concerns about data privacy, algorithmic bias, and workforce displacement (Bondarouk & Brewster, 2016; Stuart & Norvig, 2016).

E-recruitment, a subset of AI-driven recruitment, leverages digital platforms to facilitate job postings, applicant tracking, and candidate engagement. By integrating AI-powered chatbots and automated applicant screening systems, organizations can enhance their hiring processes while reducing operational costs (Chapman & Gødøllei, 2017). These technologies enable recruiters to focus on strategic decision-making rather than administrative tasks, ultimately improving recruitment efficiency. However, AI's role in e-recruitment also raises ethical concerns, as automated systems may inadvertently perpetuate biases if algorithms are not properly designed and monitored (Upadhyay & Khandelwal, 2018). Ensuring fairness in AI-based recruitment requires the implementation of standardized evaluation criteria and continuous algorithmic audits to mitigate discriminatory outcomes (Beattie & Johnson, 2012; Chamberlain, 2016).

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Despite AI's potential to enhance recruitment, biases remain a critical issue. While AI is often perceived as an objective tool, research indicates that machine learning models can inherit biases present in training data, leading to unintended discrimination against certain demographic groups (Rasmussen & Ulrich, 2015). Addressing these biases necessitates the adoption of ethical AI practices, including transparency in algorithmic decision-making and human oversight in final hiring decisions (Bogen & Rieke, 2018). Furthermore, organizations must balance the efficiency gains offered by AI with the need to maintain a human-centric approach to recruitment, ensuring that technology complements rather than replaces human judgment.

III. THEORETICAL FRAMEWORK

This study on the impact of Artificial Intelligence (AI) in recruitment is grounded in three key theoretical perspectives: Technological Determinism, Institutional Theory, and Technological Readiness. Technological Determinism, as discussed by Smith and Marx (1994), suggests that technological advancements drive inevitable changes in organizational structures and processes. In the context of recruitment, AI-powered tools such as algorithmic screening, predictive analytics, and automated interview assessments reshape traditional hiring practices by increasing efficiency and reducing human biases (Lee, 2007). This perspective frames AI as a force that organizations must adopt to remain competitive, reinforcing the notion that technology dictates HRM evolution.

Institutional Theory, proposed by DiMaggio and Powell (1983), provides a contrasting view by emphasizing how organizational culture, societal norms, and regulatory pressures shape AI adoption in recruitment. Rather than viewing AI integration as solely technology-driven, this theory considers external influences such as industry standards, ethical concerns, and corporate values. Organizations with a strong commitment to human-centric hiring may adopt AI selectively, balancing automation with human oversight (Bondarouk & Brewster, 2016). This perspective highlights the role of institutional pressures in determining the extent and manner of AI integration, offering a counterpoint to the deterministic approach.

The final framework, Technological Readiness, introduced by Parasuraman (2000), explores the factors influencing an organization's capacity to adopt AI in recruitment. Elements such as financial resources, digital infrastructure, and workforce expertise determine the speed and scale of AI implementation (Tambe, Cappelli, & Yakubovich, 2018). Larger corporations with established technological ecosystems may integrate AI seamlessly, whereas smaller firms may face challenges related to cost, training, and skepticism regarding AI's effectiveness. By synthesizing these three frameworks, this study provides a comprehensive understanding of AI's role in recruitment, acknowledging both technological inevitability and organizational diversity in adoption.

IV. METHODOLOGY

This study employs a qualitative research methodology to explore the impact of AI on recruitment practices, focusing on insights from HR professionals with direct experience in AI integration. The data collection process primarily relied on semi-structured interviews, selected as the most appropriate method to gain in-depth understanding of individual perspectives and experiences. Compared to other qualitative methods like focus groups or observation, interviews offered the flexibility to probe for additional information, facilitating detailed responses on the specific application of AI in recruitment (Gill et al., 2008). Given the practical challenges of using observation, particularly in monitoring recruitment processes, interviews allowed for a deeper exploration of the nuances surrounding AI adoption, its benefits, challenges, and implications for HRM. The decision to focus on HR professionals actively working with AI ensured that the findings would be highly relevant and valuable in examining how AI is reshaping recruitment practices.

The data collection process involved reaching out to companies that either implement AI in their recruitment processes or develop AI-driven HR software. To ensure a diverse range of insights, organizations from various geographical regions were selected, as AI adoption in recruitment remains in its early stages, especially in Turkey. A total of 10 HR professionals participated in the study, with interviews conducted through both synchronous methods (such as telephone and Skype) and asynchronous approaches (such as email) to accommodate time zone differences and logistical limitations. These semi-structured interviews were guided by a predefined set of questions, exploring key topics including the role of AI in HR, its specific applications in recruitment, and the associated advantages and challenges. The responses yielded rich qualitative data, which were transcribed and examined using thematic analysis to identify recurring patterns and insights.

To ensure the validity and reliability of the research, a thematic analysis approach, based on Braun and Clarke's (2006) six-step framework, was employed. This involved engaging deeply with the interview data, coding key aspects, and developing

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overarching themes that encapsulate significant patterns within the responses. The analysis identified four main themes: efficiency and automation in the recruitment process, AI applications in recruitment, challenges and resistance to change, and the role of human interaction in recruitment. These themes were further linked to theoretical frameworks such as Technological Determinism, Institutional Theory, and Technological Readiness, which helped contextualize the findings within broader academic discussions. To enhance trustworthiness, triangulation, peer review, and participant feedback were incorporated to validate the findings and ensure alignment with the study's research objectives. This methodology provides a robust foundation for understanding how AI is transforming recruitment practices and the challenges that accompany its adoption.

V. ANALYSIS

A. Comparison: Traditional vs. AI-Driven Recruitment Processes

AI is revolutionizing recruitment by shifting traditional, manual processes to automated, data-driven approaches that improve efficiency, decision-making, and inclusivity. In job posting, AI leverages natural language processing (NLP) to craft tailored job descriptions, optimizing language to target the right audience based on real-time trends. This improves visibility, accuracy, and promotes diversity by eliminating biased language. AI's ability to strategically create engaging and inclusive job descriptions enhances both recruitment reach and fairness.

For candidate sourcing, AI automates searches across multiple platforms and uses predictive analytics to identify individuals who are likely open to new opportunities. By considering factors like skills, experience, and contextual fit, AI enhances the accuracy of candidate matching, improving both engagement and quality of applicants. AI also personalizes communication, making the process more interactive, especially for passive candidates who may not be actively looking for jobs.

AI is also streamlining screening and shortlisting by automating resume evaluation, ranking candidates based on skills, experience, and fit. Predictive analytics creates a ranked shortlist, further improving the efficiency of the hiring process. Additionally, AI supports objective assessments such as coding tests and reduces human bias, ensuring a fairer recruitment process. These efficiencies allow HR teams to focus on higher-value activities such as relationship-building and strategic decision-making.

During interviewing and decision-making, AI automates scheduling, analyzes video interviews, and uses NLP to assess verbal and non-verbal cues. This data-driven approach helps assess communication skills, confidence, and cultural fit. By providing more objective insights, AI supports better decision-making, reducing administrative burdens and bias while making the recruitment process faster, more precise, and more effective.

B. Theoretical Integration of Findings

The integration of Artificial Intelligence (AI) into recruitment is reshaping organizational practices, with significant benefits and challenges. Theoretical frameworks such as Technological Determinism, Institutional Theory, and Technological Readiness offer valuable insights into this transformation. Technological Determinism suggests that AI is driving inevitable changes, automating tasks like resume screening and candidate shortlisting, leading to efficiency gains and data-driven decisions. However, human oversight remains critical in areas like cultural fit assessment, reflecting that AI's impact is shaped by human agency. Institutional Theory explains that organizational culture and external pressures influence how AI is adopted. Some companies choose hybrid approaches to balance AI's efficiency with human judgment, ensuring fairness and accuracy. Additionally, external factors like diversity and inclusion demands drive the use of AI to reduce biases, though its design requires careful monitoring to avoid reinforcing biases. Technological Readiness highlights that larger organizations with advanced infrastructure are more successful in implementing AI, allowing them to scale recruitment efforts. Smaller companies face challenges such as high costs and lack of expertise. Even well-prepared firms encounter resistance to change and the need for ongoing training. These frameworks show that AI's benefits—such as improved decision-making, reduced bias, and increased efficiency—depend on an organization's context and readiness. Maximizing AI's potential in recruitment requires a balanced approach that integrates technology with human involvement.

C. Challenges of using AI in recruitment

The adoption of AI in recruitment faces several challenges that organizations must address for effective and ethical use. Resistance to change is significant, as HR professionals often question the accuracy of AI tools, especially when assessing cultural fit and interpersonal dynamics. Overcoming this skepticism requires ongoing training and communication to show

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how AI can complement human judgment. Algorithmic bias is another concern, where AI systems can replicate biases in historical data, perpetuating unfair hiring practices. To mitigate this, organizations must conduct regular audits and ensure AI systems are designed to promote fairness and inclusivity. Additionally, AI struggles with emotional intelligence and nuanced traits, such as passion and attitude, requiring human oversight to ensure balanced and fair recruitment decisions.

High implementation costs and resource constraints also present barriers, particularly for smaller organizations. Aligning AI adoption with organizational goals and allocating sufficient resources is key to maximizing its potential. Cultural and language differences further challenge AI systems in global recruitment, as they may struggle to understand varying terminologies or practices. Organizations should train AI systems on diverse datasets to adapt to cultural contexts. By addressing these issues, organizations can better leverage AI's benefits while ensuring fairness, accuracy, and inclusivity in their recruitment processes.

VI. CONCLUSION

AI is integrating into Human Resource Management (HRM) and transforming the recruitment process in profound ways. This research answers the main question: **What is the impact of AI on the recruitment process?** Through an in-depth analysis of industry insights and expert testimonies, it becomes evident that AI has significantly reshaped how organizations attract, assess, and select candidates.

One of the most notable impacts of AI is its ability to enhance efficiency. By automating repetitive tasks such as resume screening, interview scheduling, and initial candidate assessments, AI reduces the time and cost associated with hiring. This allows HR professionals to focus on strategic decision-making rather than administrative burdens. Additionally, AI-driven tools can analyze vast amounts of data at unprecedented speeds, identifying the most suitable candidates based on specific job criteria, thus streamlining the recruitment pipeline.

Another key finding of this research is AI's potential to mitigate unconscious bias in hiring. Traditional recruitment methods often suffer from subjective human decision-making, but AI algorithms, when properly designed and monitored, can help create a more objective selection process. However, as referenced in the work of Bogen & Rieke (2018) and Raghavan et al. (2020), AI is not inherently free of bias—its outcomes are only as fair as the data it is trained on.

AI also enhances the candidate experience by providing real-time feedback, personalized job recommendations, and chatbot-assisted interactions that keep applicants engaged throughout the hiring process. According to Upadhyay & Khandelwal (2018), AI-powered recruitment tools contribute to a more seamless and interactive candidate journey, increasing overall satisfaction and employer branding. However, candidates still value human interaction, particularly in later stages of hiring where personal rapport, organizational culture fit, and negotiation take precedence.

Despite these advancements, AI cannot replace human intuition, emotional intelligence, and ethical judgment in recruitment. As highlighted in the findings of Nawaz & Gomes (2022), the most effective recruitment strategies blend AI-driven efficiency with human insight to make well-rounded hiring decisions. While AI can process data and predict trends, human recruiters remain indispensable in assessing soft skills, cultural alignment, and unique candidate potential.

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