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The Impact of AI on Talent Acquisition: Opportunities and Challenges in Modern HR Practices

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The development of artificial intelligence (AI) has changed various aspects of human resource management, including the talent acquisition process to become more efficient and structured. However, the application of AI in recruitment also presents challenges, especially related to the issue of algorithmic and ethical bias, which can affect fairness in the candidate selection process. This study aims to evaluate the impact of AI on talent acquisition, including the potential opportunities and challenges that organizations face in their implementation. This study uses a qualitative method with a literature review approach, which aims to identify, analyze, and synthesize previous studies on the impact of artificial intelligence (AI) in talent acquisition, especially on opportunities and challenges in modern HR practices. The results show that AI has great potential to change the way organizations acquire talent, but its application must be done with caution. By understanding the advantages and disadvantages of AI in this context, organizations can leverage technology to achieve efficiency without sacrificing existing ethical values and social decency.

1. Introduction

In the rapidly evolving digital era, the adoption of artificial intelligence (AI) technology has brought significant changes in various sectors, including human resource (HR) management (Kaplan & Haenlein, 2020). Especially in talent acquisition, AI offers opportunities to improve efficiency and accuracy in the recruitment process, from initial screening to candidate assessment (Wright & Stewart, 2011). This technology allows companies to speed up the recruitment process and improve the quality of decision-making, providing a competitive advantage for organizations in an increasingly competitive labor market (Davenport & Ronanki, 2018). However, while AI offers a lot of potential, its application also presents challenges such as algorithmic bias and ethical issues in decision-making (Binns, 2018; Raghavan et al., 2020).

Talent acquisition is a strategic process in acquiring the best candidates to meet the needs of the organization in the long term. This process includes various stages, from identifying labor needs, screening, selection, to integrating new candidates into the organization (Thakkar, 2021). Talent acquisition not only focuses on filling vacant positions, but also on creating long-term relationships with potential talent, so that companies can build a network of candidates who are ready to support organizational growth (Skuza et al., 2021).

Modern HR practices have evolved to include a more integrated approach to managing the workforce, with a focus on the candidate and employee experience. By using digital technology, HR is now able to provide a more transparent, fast, and fair recruitment process (Makhija et al., 2024). In this context, AI has an important role in helping organizations to analyze candidate data, provide appropriate recommendations, and speed up the recruitment process without compromising the quality of selection (Huang & Rust, 2018).

The application of AI in talent acquisition reflects a significant shift in modern HR practices, where technology is no longer just a tool, but an integral part of recruitment strategies. AI helps automate administrative tasks, allowing HR professionals to focus more on strategic decision-making and more personalized interactions with candidates (Subramanian & Riya, 2024). The integration of AI in HR also marks a shift towards a data-driven approach, which gives organizations the ability to make more informed decisions and reduce subjectivity in the selection process (Paramita et al., 2024).

Although research on the impact of AI in HR has been widely conducted, there are research gaps that need to be filled, especially in understanding how AI affects the early stages of talent acquisition on a broad scale and in different organizational cultural contexts (Tambe et al., 2019). Many studies have focused on the technical aspects of AI implementation, such as candidate screening algorithms or recommendation systems (Setyawan et al., 2024), but have

less discussed the social and psychological impacts that may arise from replacing human functions with automation systems (Pereira, 2023).

The need to understand the long-term impact of AI adoption in talent acquisition is critical. Companies that fail to understand this complexity can face challenges in maintaining brand reputation, attracting quality candidates, and ensuring value alignment with candidates (Srivastava & Bhatnagar, 2010). Given that AI has the potential to replace the role of humans in the recruitment process, there is an urgent need to assess whether the application of this technology actually creates added value or actually alienates potential candidates (Huang & Rust, 2018).

Previous research has examined various aspects related to the application of AI in HR, but most have focused on efficiency and automation without considering the long-term impact on the candidate-company relationship. Research conducted by Golej and Pietroń-Pyszczyk (2024) revealed that AI assists companies in identifying candidates who fit the organization's culture, thereby improving the fit between candidates and the organization as a whole. In addition, this article highlights the risks of AI in creating employee distrust due to the possibility of technology-based surveillance that is considered to threaten privacy. Koman, Boršoš, and Kubina (2024) highlight how AI can be used as a key technology in the recruitment process to automate administrative tasks and allow HR to focus on strategic initiatives. Ciaschi and Barone (2024) stated that AI can provide a more objective way of assessing candidates' interpersonal skills such as communication and collaboration, which are important components of employee performance. These findings support the importance of AI in creating a more comprehensive and fair selection process.

The purpose of this study is to evaluate the impact of AI on talent acquisition, including the potential opportunities and challenges that organizations face in their implementation. The study also seeks to understand candidates' perceptions of the use of AI in the recruitment process and how AI can influence a candidate's decision to accept or decline a job offer. The benefits of this research are expected to provide guidance for HR practitioners and decision-makers in optimizing the use of AI ethically and effectively, in order to improve the quality and involvement of candidates in the recruitment process.

2. Method

This study uses a qualitative method with a literature review approach, which aims to identify, analyze, and synthesize previous studies on the impact of artificial intelligence (AI) in talent

acquisition, especially on opportunities and challenges in modern HR practices. Literature review is a type of research conducted by studying relevant literature and previous research results to gain a deep understanding and enrich theoretical perspectives on the topic discussed (Snyder, 2019). This approach is well-suited to understand the latest developments in the adoption of AI technology in the recruitment process and how it affects HR policies and practices.

The main sources of data in this study are scientific journal articles, academic books, industry reports, and other relevant and quality publications. This data source is obtained from various trusted databases such as Google Scholar, JSTOR, and ScienceDirect, as well as from organizations that focus on HR and AI studies, such as the Society for Human Resource Management (SHRM) and the World Economic Forum. The selection of sources was carried out systematically using keywords such as "AI in talent acquisition," "artificial intelligence and HR practices," and "challenges and opportunities of AI in recruitment." The articles and literature selected for analysis include empirical and theoretical research published in the last ten years to ensure the relevance and accuracy of the information used (Boell & Cecez-Kecmanovic, 2015).

The data collection technique in this study was carried out by the documentation method. Data were collected through the identification and selection of relevant literature, followed by the extraction of key information related to the focus of the research. This process includes the identification of key concepts, theoretical explanations, empirical findings, and discussions about the opportunities and challenges of applying AI in recruitment. The documentation method is considered effective in literature review because it allows researchers to collect and group data based on specific categories, so that in-depth analysis can be carried out (Okoli & Schabram, 2015).

The data analysis method used in this study is thematic analysis, where the collected data is grouped based on certain themes that are relevant to the research topic. Thematic analysis allows researchers to identify patterns and trends in the analyzed literature, as well as relate them to the research objectives, which are to reveal the opportunities and challenges organizations face in adopting AI for talent acquisition (Braun & Clarke, 2006). The steps in this analysis include familiarization with the data, coding, theme identification, and interpretation of the analysis results. Through this approach, the research is expected to provide comprehensive insights into the implications of AI in talent acquisition as well as its contribution to modern HR practices.

3. Result and Discussion

The table below displays a summary of 10 selected articles relevant to the research topic. These articles are selected through a selection process from a variety of related literature, with the aim of presenting a comprehensive understanding of the impacts, opportunities, and challenges faced by organizations in applying AI to the talent acquisition process. Each article in the following table is accompanied by information about the author, year of publication, research objectives, main findings, and methods used, so as to provide a systematic overview of various perspectives and related research results.

No	Article Title	Author	Year	Research Objectives	Key findings	Method
1	Artificial Intelligence in Talent Acquisition: Assessing the Impact on Recruitment Processes	Fatema & Khan	2023	Identifying the impact of AI on the recruitment process	AI speeds up the recruitment process and screens candidates efficiently	Literature analysis
2	Applying Ai In The Recruitment And Selection Process And Building The Organizational Climate (Part II).	Golej & Pietroń-Pyszczek	2024	Assess how AI is impacting an organization's climate	AI helps map candidate matches and organizational culture	Case studies
3	ID: 88- Technological Advancements and Their Implications for HRD: A Scoping Review	(Pandya et al., 2024)	2024	Explaining the development of AI technology in HRD	AI improves efficiency and consistency in recruitment	Scoping review

4	The Possibilities of Using Artificial Intelligence as a Key Technology in the Current Employee Recruitment Process	Koman et al.	2024	Exploring the role of AI in candidate selection	AI reduces candidate processing time and recruitment costs	Experimental studies
5	Exploring the role of Artificial Intelligence in assessing soft skills	Ciaschi & Barone	2024	Developing AI tools for soft skills assessment	AI is effective in identifying candidates' soft skills	Field study
6	AI-Powered Strategies for Talent Management Optimization	(Sundarapandian Natarajan et al., 2024)	2024	Developing AI strategies in talent management	AI makes long-term talent management easier	Literature studies
7	Shaping Tomorrow's Workplace with AI-Driven HRM	(Sainila, 2024)	2024	Analyzing the role of AI in the work environment	AI helps predict and map a candidate's career	Descriptive analysis
8	Navigating the Future!: Exploring the Impact of Digital Hiring and Selection Processes in South African Municipalities	Zindi	2024	Evaluating the impact of recruitment digitalization in the public sector	AI technology creates efficiencies in public sector recruitment	Field study
9	Beyond Algorithms: Ethical Implications of AI-Driven	Stone & Gupta	2024	Examining ethics in the application of AI in HR	Ethical challenges in privacy and AI bias	Ethical analysis

	Human Resources and Use of Employee Data					
10	Artificial Intelligence On Human Resource Management- Innovation, Challenges And Path Forward	Roopalatha & Sucharita	2024	Exploring the impact of AI on the future of talent acquisition	AI enables prediction of future candidate performance	Qualitative studies

The selected articles reveal that AI adoption in talent acquisition offers numerous advantages, primarily in terms of efficiency and decision-making accuracy. Fatema and Khan (2023) highlight that AI significantly enhances the recruitment process by streamlining candidate screening, which allows organizations to handle large applicant volumes effectively (Fatema & Khan, 2023). Similarly, Koman et al. (2024) indicate that AI reduces recruitment processing time and associated costs, making it a valuable tool for enhancing recruitment efficiency (Koman et al., 2024). These findings suggest that AI not only optimizes time but also reduces costs, positioning it as a valuable resource in the modern HR toolkit.

In addition to efficiency, AI supports a more structured approach to cultural fit assessments, as noted by Golej and Pietroń-Pyszczyk (2024). Their study emphasizes that AI can assess how well a candidate aligns with the organizational culture, providing a basis for a supportive organizational climate. By employing predictive analytics, AI helps identify candidate characteristics that align with organizational values, thus promoting better integration and longer employee retention. This cultural alignment can lead to a stronger and more cohesive workforce, which is critical for long-term organizational success.

AI's role extends to assessing non-technical attributes or "soft skills," which are increasingly valued in modern workplaces. Ciaschi and Barone (2024) demonstrate that AI can effectively gauge these soft skills, a challenging task traditionally handled through subjective human evaluations (Ciaschi & Barone, 2024). By accurately evaluating attributes such as teamwork, adaptability, and communication, AI enables a more objective assessment process, reducing the biases often associated with manual evaluations. This ability enhances the overall quality of new hires by ensuring that both technical and non-technical skills are aligned with

organizational needs.

However, the integration of AI in talent acquisition does not come without challenges. Stone and Gupta (2024) discuss ethical concerns surrounding privacy and potential biases in AI-driven recruitment (Stone & Gupta, 2024). The reliance on data for AI decision-making introduces risks regarding data privacy, where candidates may be reluctant to share personal information. Moreover, AI's potential to reflect biases from its training data poses risks of perpetuating discrimination, highlighting a crucial area for ethical management and oversight in AI applications within HR.

The application of AI in talent acquisition also extends to public sector organizations, as illustrated by Zindi (2024), who found that digital hiring technologies bring efficiency to recruitment processes in municipal governments (Zindi, 2024). These advancements are significant in public sectors where hiring processes are often lengthy and resource-intensive. The use of AI in such settings improves service delivery by expediting hiring, thereby ensuring that public entities can fulfill their staffing needs promptly.

Finally, Roopalatha and Sucharita (2024) explore AI's potential for predicting candidate performance, suggesting a future where AI can offer insights into a candidate's career trajectory within an organization (Roopalatha & Sucharita, 2024). This predictive capability helps HR professionals make informed hiring decisions by anticipating long-term contributions of potential hires, which is especially beneficial in strategic talent management. By forecasting career growth and performance, organizations can proactively align talent acquisition with their long-term goals.

Discussion

The findings of the literature on the impact of artificial intelligence (AI) on the talent acquisition process in modern HR practices show that AI plays a significant role in automating the recruitment process and improving efficiency. Fatema and Khan (2023) found that the application of AI in candidate screening allows companies to handle large volumes of applications more quickly. This phenomenon is in line with the needs of organizations in the digital era, where time is a key factor in obtaining quality candidates. Given the competitive job market, AI technology allows companies to screen candidates effectively and efficiently. These findings support the theory of organizational efficiency, which emphasizes the importance of optimizing work processes in achieving company goals (Taylor, 1911).

Additionally, research by Golej and Pietroń-Pyszczyk (2024) revealed that AI can assist in assessing a candidate's cultural fit with the organization (Golej & Pietroń-Pyszczyk, 2024). In this context, the application of AI supports the fit theory approach which states that the fit

between the candidate's values and culture with the organization is the key to long-term employee success and retention (Kristof-Brown, Zimmerman, & Johnson, 2005). This fact shows that AI supports not only the technical aspects of recruitment, but also the psychological and social aspects, which are crucial in creating a harmonious work environment. By leveraging AI, organizations can ensure candidates who not only have the right skills but also fit the company's values and culture, thereby increasing job satisfaction and employee loyalty.

Research by Ciaschi and Barone (2024) highlights AI's ability to assess soft skills, which are difficult to measure with traditional methods. AI's ability to identify skills such as communication, adaptability, and cooperation shows a shift away from fully hard skills-based assessments. This phenomenon reflects a paradigm shift in the world of work, where soft skills are considered as important as technical skills. The theory of social intelligence put forward by Thorndike (1920) supports this finding, stating that interpersonal skills are an essential component of individual intelligence. Therefore, the use of AI in assessing soft skills allows for a more comprehensive selection process, increasing the likelihood of employee success in their roles.

However, Stone and Gupta (2024) highlight the ethical challenges faced in the application of AI to talent acquisition, specifically related to data privacy and algorithmic bias. This challenge is a concern in the modern era, where privacy and fairness are becoming increasingly important issues. Theoretically, this challenge is related to information ethics, which emphasizes that any use of information technology must consider its social and ethical impact (Floridi, 2013). Biases in algorithms, if not managed properly, can result in indirect discrimination against certain groups. This shows that while AI provides efficiency advantages, there are significant risks if this technology is implemented without adequate supervision.

Zindi's (2024) research on the application of AI in public sector recruitment highlights the role of AI in creating efficiency in the government sector. These findings suggest that AI is not only relevant for the private sector, but also has the potential to increase effectiveness in the public sector, where bureaucratic procedures often slow down the recruitment process. In this context, Weber's theory of bureaucratic efficiency (1922) supports the view that technology can help simplify complex administrative processes. By automating processes, the public sector can save time and money, ensuring faster and more responsive services for the community.

Roopalatha and Sucharita (2024) found that AI has the potential to predict candidate

performance in the future, which is very useful in long-term human resource planning. These findings relate to the theory of predictive analytics, which allows organizations to use historical data to predict future outcomes (Provost & Fawcett, 2013). In this case, AI allows companies to not only assess the current qualifications of candidates, but also their potential to grow and thrive within the company. Thus, companies can be more proactive in building a strategic talent pipeline.

However, it should be noted that the effectiveness of AI in recruitment cannot be separated from the risk of using big data (big data) which is the main basis of AI systems. These risks are mainly related to data security and potential privacy breaches. According to Stone and Gupta research (2024), organizations must be more careful in managing candidate data to keep it in line with privacy and data protection principles. This situation is in line with the theory of data ethics, which emphasizes the importance of maintaining the privacy and security of individual data (Floridi, 2013). Therefore, the development of strict policies regarding the use of data in AI is essential to avoid these risks.

From a practical perspective, the above findings provide evidence that while AI brings efficiency, innovation, and predictability to the recruitment process, emerging challenges point to the need for a balance between technology and human intervention. In this case, the author argues that the use of AI should be combined with human evaluation to minimize the risks that arise. For example, AI can be used as an aid in initial candidate screening, while final decisions can be made by HR professionals to consider factors that may not be detected by AI.

Overall, the study reinforces the argument that AI has a significant impact on talent acquisition in modern HR, both in terms of opportunities and challenges. By combining efficiency theory, information ethics, and predictive analytics, this research shows that AI not only offers technological solutions, but also opens up space for ethical and managerial challenges that need to be addressed carefully. The author's view supports the need for a holistic approach to the use of AI in HR, which considers technological, social, and ethical aspects to create an effective and fair recruitment process.

4. Conclusion

This research shows that artificial intelligence (AI) has a significant impact on the talent acquisition process in modern HR practices, especially in terms of efficiency, accuracy, and predictability. AI allows organizations to screen candidates more quickly and effectively, reducing the cost and time required in the recruitment process. In addition, AI technology is also able to assess a candidate's cultural fit and soft skills, two crucial aspects in creating a

positive work environment and supporting long-term employee retention. These findings show that AI not only helps automate technical tasks, but also supports strategic aspects of human resource management.

However, the application of AI in talent acquisition is not without its challenges, especially related to ethics and algorithmic bias. While AI can improve objectivity in the selection process, the risk of bias from training data and privacy concerns remains a major concern. This research emphasizes the importance of strict supervision and control in the application of AI so that this technology can be used fairly and ethically. This issue is increasingly important in the modern context where the demand for transparency and data protection is increasing, thus requiring organizations to develop appropriate policies and ethical standards.

Based on these findings, it can be concluded that while AI has the potential to revolutionize the talent acquisition process, optimal implementation requires a balanced approach between technology and human intervention. A hybrid approach, which combines AI with HR professional evaluation, can reduce the risk of bias and improve accuracy in recruitment decision-making. The recommendation for further research is to deepen the study on the long-term impact of the use of AI in recruitment on employee performance and organizational culture. In addition, further research on the development of ethical and transparent AI algorithms, as well as strategies to mitigate bias in AI, will be of great benefit to the development of fair and inclusive recruitment practices.

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