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Revolutionizing Recruitment: Exploring the Ethical, Psychological, and Strategic Dimensions of Artificial Intelligence in Talent Acquisition

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Abstract

Artificial intelligence or AI has been seen to be having a positive impact in talent acquisition as it brings about efficiency, scalability and decision making. This research explores examples of AI's ethical, psychological, and strategic aspects in recruitment through a quantitative survey of 300 participants (200 candidates and 100 recruiters) and qualitative data from semi-structured interviews. The results suggest that perceived fairness does have a strong influence on trust in these systems which in turn moderates the connection between fairness and candidate engagement. As with most digital media, efficiency of recruitment is another area where area engagement takes form and shows how AI is not a mere tactical tool. Moderation analysis indicates that organizational culture enhances the positive relationship between trust and engagement and this proves that culture plays a critical role in AI implementation. Qualitative evidence adds to the understanding of the body of knowledge by asserting that meeting such needs requires transparency, Au-efficiency, and strong bias elimination processes. The study, therefore, has implications on proven theories like the TAM and Strategic Alignment Theory and proposes concrete guidelines for fairness, trust and inclusion when addressing recruitment through AI. These studies propose a framework to guide the effective and ethically appropriate implementation of AI in recruitment based on key issues clients and organizations have about this technology.

Keywords: Artificial intelligence, talent acquisition, ethical implications, psychological impact, strategic alignment, recruitment, AI governance, algorithmic bias, technology adoption.

Introduction

The use of artificial intelligence within talent acquisition and management has tremendously revolutionized the process of recruitment, opening up new and unprecedented possibilities of effectiveness, precision, and size. Recruiters currently use AI in most of the sub-stages of the hiring process, including

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candidates search or selection, resume filtering, scheduling of interviews, and employee onboarding (Dwivedi et al., 2021). All these innovations hold the potential of solving some of the most entrenched problems of conventional recruitment processes which have always been slow, involving most times a lot of manual work and hiring decisions often affected by human biases. However, as AI-based tools penetrate more into organizational processes, their impact goes beyond operational productivity, and poses severe and multifaceted ethical, psychological and strategic questions that require academic research investigation (Tambe et al., 2019).

In the application of AI in recruitment ethics form a very important consideration. However, some studies have provided proof about AI models' tendencies to replicate those prejudices they are exposed to in the training data (Raghavan et al., 2020). For example, the AI-based recruitment tool used by Amazon the failed the tests and was shut down in 2018 was sexist, as it favored male candidates due to the datasets used (Dastin, 2018). Further, arising from the use of big data to improve the recruitment processes, new ethical issues such as candidate privacy and data protection have been raised (Binns 2018). These ethical issues provide a rationale for the development of guidelines to the appropriate use of AI systems in recruitment.

Further psychological aspects affect the AI engagement in recruitment. Concerning the use of AI in making decisions it was discussed that candidates' perceptions of fairness and trust in AI decisions should be taken into consideration as they determine a person's engagement to the systems (Langer et al., 2021). Also, the recruiters themselves might develop decision fatigue or decision conflict while dealing with AI tools, and specifically if the tools Question the recruiters' professional assessments or control (Tambe et al., 2019). Such psychological factors speak to the notion of the need for the pursuit of human-AI interactivity patterns in order to improve user willingness and adherence.

From the tactical view point, organizations using AI in talent acquisition will be able to realize improved time efficiencies, candidate matching, and diversity in workforce (Dwivedi et al., 2021). However, these benefits apply provided that the AI tools are integrated into existing organizational goals and organizational culture. Even if the technologies are implemented instead of integrating with the organisational process and training the employees, AI systems might not fulfil the expected performances or may be counterproductive to the recruitment process (Jatobá et al., 2019). So, organizations and governments should approach AI development for their organizations as a well–planned process that the improvement of an organization's technology has to correspond to the organizational capabilities that will have to adapt to the change.

This research aims at discussing ethical, psychological, and strategic aspects of AI in talent management to answer several concerning questions about the effects of AI on the field including recruitment. Specifically, the research aims to: As specific objectives, this paper aims at: (1) discussing primary ethical issues and reporting on frameworks for AI use; (2) analyzing psychological effects on the participants of AI-based selection procedures; (3) analyzing the competitive advantages and risks of AI application in recruitment processes and outlining further research directions. In doing this, the study adds knowledge in the field of AI application in human resource management taking a multidisciplinary

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dimension whereby it offers concrete recommendations aimed at organizations experiencing this period of digital revolution.

Literature Review

Recently, the use of artificial intelligence in the recruitment process has become prevalent, and this has greatly shaken Garcia et al (2017) shaken up conventional talent acquisition. AI solutions suggest the accelerated approach to laborious processes such as candidate sourcing and resume screening, planning and holding interviews. However, these advancements also pose an intertwining of ethical, psychological, and strategic concerns that requires an extensive review of the literature to assess.

AI Applications in Recruitment

Artificial Intelligence is transforming recruitment, using it in everything from simple process automation to the use of analytics to make or improve decisions. AI has been transformative when it comes to resume screening for example AI can scan, review and analyze candidate profiles and their suitability against the requirements of a given job description in a much shorter time than any recruiter (Black & van Esch, 2021). Recruitment and applicant tracking is made quicker and more scalable by such systems, based in NLP and machine learning, trained with volumes of resumes (Dwivedi et al., 2021). Moreover, there is no denying the use of chatbots in the recruitment process, as they create interaction with candidates in real time, offering answers to questions, and managing interviews. Another area that conversational AI is used to improve is the candidate experience and to alleviate prep work load from recruiters (Leong, 2018).

One of the revolutionary application areas of AI is an application called predictive analytics which uses previous hiring data to discover potential candidates. The above tools evaluate different aspects such as competencies, background, and personality making recruitment decision-making more effective (Dwivedi et al., 2021). Nonetheless, some challenges persist as will be discussed below. For example, the assumption that using historical information is beneficial can, in fact, perpetuate biases since algorithms reproduce patterns derived from the information fed into them (Binns, 2018). It is for this reason that critical monitoring and minimization of bias become crucial in the application of AI in recruitment.

Ethical Dimensions of AI in Recruitment

Thus, one of the most discussed aspects of AI application in recruitment is the ethical issue, including the problems of bias, transparency, and privacy. An important problem is the problem of algorithmic bias since AI systems are not more unbiased than the data they are based on. Different research indicates that AI possesses the ability of extending and even aggravating biases. For instance, the AI recruitment tool used by Amazon until it was disestablished has shown sexism as it sanctioned the use of female related words in the resumes. This and other similar examples demonstrate that AI can perpetuate bias, meaning that workers of colour are still less likely to be considered for a position (Raghavan et al., 2020).

Lack of transparency or its presence is another major ethical challenge that relates to AI based recruitment. AI algorithms can also tend to be less

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transparent or, in other words, set a high barrier for understanding the reasons for their decisions. This opacity may also create an environment of low standards, and the candidates and recruiters cannot trust each other (Floridi et al., 2018). The problem is that ordinary users cannot understand how AI makes its decisions, and this has been addressed by a concept known as Explainable AI or XAI which is in the process of being developed to add increased interpretability to AI systems and their results (Doshi-Velez & Kim, 2017).

Privacy considerations are also crucial since AI systems work with databases containing data under personal data protection legislation. The regulation such as GDPR and other related frameworks put much importance on stronger measures protecting data. Nonetheless, available research shows that few organizations have the tools to protect candidate information, meaning that this data can be stolen or misused (Acquisti, Taylor, & Wagman, 2016). Solving these ethical issues can only be solved through cooperation with regulators, IT specialists and organizations that will come up with standards for the use of AI.

Psychological Dimensions of AI in Recruitment

The changing mental or psychological perception towards AI on the side of the candidates and recruiters is also a key research focus because this perception affects the overall effectiveness of AI based systems. In this case then, the level of confidence in AI systems affects the level of usage that candidates are willing to give to AI systems. Langer et al. (2021) showed that decision-making involving AI tends to be considered less fair by candidates than when made by human administrators especially when it results in an unfavorable decision. Such a view of impartiality harms trust and disinclined candidates to go through the AI-based selection procedures.

Another psychological issue is that through the use of Artificial Intelligence, people can interact with technology without actually having to deal with real people, intermediated by a computer program instead of a live person. There is the overall perception that the use of AI systems diminishes the psychological contract and thus decreases a candidate's psychological ownership and involvement (Dineen & Allen, 2016). This issue explains why organizations every now and then should consider a blend of recruitment through the use of AI while at the same time involving humans in the same process.

From the recruiters' side, there arises the issues of losing personal power of decision and sense of control in processes due to the gradual introduction of AI. Although the application of AI tools relieves workload by reducing the amount of routine tasks to perform, it may also introduce new types of bias to recruitment decisions – that of the algorithms, which may go against the recruiters' gut feeling (Tambe et al., 2019). This tension also establishes the concept of enabling AI to assist rather than negate the role of a recruiter, and instead create a complementary relationship between machine and human.

Another psychological concept linked to AI in recruitment is decision fatigue, as already mentioned. When working with AI systems, driven by constant validation or overriding context-provided recommendations, decision-makers experience cognitive exhaustion and decit (Baumeister et al., 2000). The need to solve this problem is as urgent as seeking to modify AI interfaces and workflows so that they do not burden the people for whom they are created.

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Strategic Dimensions of AI in Recruitment

From a strategic point of view, AI has proved to be much more efficient than humans in most of the areas and is much more diverse, and can easily be scaled up. For example, through resume filtering and scheduling and coordinating interviews, AI can help save time for recruitment teams and instead dedicate more precious time to relationship building and consistently improving employers' brand image (Jatobá et al., 2019). Studies show that implementing the application of AI in the sourcing of employees can lead to information processing acceleration by up to 30 percent, amounting to considerable cost savings and improvements in efficiency (Dwivedi et al., 2021).

AI can also increase workforce diversity by minimizing biases that are likely to be found in the hiring process. Due to purposeful and sensitive design, AI systems can be used to enhance organizational inclusiveness and creativity by screening and recruiting numerous candidates (Raghavan et al., 2020). Nevertheless, achieving this result is possible only with active measures aimed at identifying bias in AI-enabled solutions.

The fourth being that AI in recruitment has the advantage in scalability. Selfservice tools powered by AI allow an organization to expand its access to talent, starting from people residing in different locations. This capability is especially important for the MNEs who want to increase their operations in a foreign country (Farndale et al., 2014). Additionally, with large datasets analysis and synthesis, AI can help organizations to forecast potential talent shortages and align organizational human capital acquisition with organizational development goals and objectives (Hunt et al., 2015).

However, threats to strategic planning are still observable.: As much as it has these advantages, there are still some issues that need to be addressed. AI practice in recruitment can only be effective if the features of the organizational goals and culture enable the change that AI supports. Lack of careful planning and commitment from the stakeholders means that AI implementations may not serve their purpose or may in fact, negatively impact recruitment practices (Jatobá et al., 2019). I also identify that organisations have to engage in training and change to enable employees to work with AI systems.

Gaps in the Literature

Although the current research offers helpful findings concerning the ethical, psychological, and strategic aspects of AI in the context of recruitment, there are some voids in the literature. For instance, a lot has not been investigated about the effects of artificial intelligence on the psychological well-being of candidates and the recruiters in the long-run with reference to trust, job satisfaction and identity. Also, the moderator of using AI tools in organizations which includes organizational culture is something worthy of future research. Future research should also specifically explore the relation between regulation of artificial intelligence and its use in order to properly define how it can be done most effectively and ethically.

Theoretical Framework

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AI integration in talent acquisition is predicated upon the following theoretical frameworks that articulate its ethical, psychological and strategic applications. Altogether, those theories offer a conceptual framework of understanding the nature of effects of AI.artificial intelligence on stakeholder recruitment activities, choices and consequences. This theoretical framework integrates three dimensions: organizational behaviour and ethics, and the impact of technology adoption, to form an expected normative model for understanding the multifaceted consequences of AI in the recruitment process.

The ethics of AI such as deontological ethical norms and utilitarian ethical norms gives a fundamental understanding on how AI should be used most rationally with sectors of; fairness, transparency and privacy. Deontological approach also requires the AI systems to respect the moral values like equality and competitions of data privacy. For example, the protection against bias by algorithms corresponds to the deontological responsibility resulting from the categorical imperative to be fair to all people (Kant 1785/1998). On the other hand, utilitarianism judges the quality of consequence of implementing AI considering its benefits, like efficiency and diversity in workforce, and the cost like invasion of privacy or loss of trust from the candidate's end (Mill, 1863). These ethical paradigms are informative in solving such paradoxes contained in the practice of AI, and especially where the outcomes create social equality and access.

Davis (1989) has developed the Technology Acceptance Model (TAM) which can be used to explain how working users perceive and respond to AI-based recruitment technologies. According to TAM, perceived usefulness (PU) and perceived ease of use (PEOU) are frontrunners to technology acceptance. Recruitment specific to perceived usefulness relates to the ways that AI helps to make smarter hiring decisions and saves time, for example, by automating the process of sifting through resumes. Users' perceived ease of use is defined by enablement of effortless tasks' completion through AI tools, influencing recruiters' and candidates' readiness to embrace the technologies. These perceptions are a result of internal organizational factors, including culture and training but external variations are key to the enhancement of receipt and efficient use of Artificial Intelligence (Leong, 2018).

Using the Psychological Contract Theory by Rousseau (1995), we understand how expectations between the candidates, recruiters, and organizations progress with the integration of AI. From a similarly psychological contract perspective, trust in AI systems is vital for the candidates. To a certain degree, this trust is influenced by the opinions and attitudes of the people who have to use the AI solutions in their daily lives, but impressions of fairness and transparency of AI decisions conclusively impact it. Eligible participants who think that the AIdriven processes are in organizational or discriminatory may feel a lack of trust with the process, thereby, discouraging them, and have low satisfaction (Langer et al., 2021). Similarly for recruiters, the use of AI tools can pose threats to their self-organisations through structuration and this conflicts that exist must be addressed through a human-AI decision making.

According to the Strategic Alignment Theory by Henderson and Venkatraman, (1993) the application of AI must be aligned to the organization's goals. AI solutions have to deliver business value, which has to include drivers, which are

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top-line strategic objectives in an organisation such as increasing diversity and employer reputation. Key message: AI is best integrated into recruitment when the tools and applications used also gain support from all the stakeholders and integrate the AI infrastructure with the long-term goals of the organisation. For instance, those companies that embrace Diversity and inclusion have to design their AI systems to eliminate implicit bias in the process of recruitment.

Frameworks for ethical decision making, including Rest's (1986) Four-Component Model, assist organisations in mitigating the ethical issues arising from AI's use in recruitment. It also makes moral awareness, moral judgment, moral intent and moral behaviour focus as a tool for creating an effective organizational model for risk management of ethical issues associated with artificial intelligence systems.

Hypothesis Development

Based on the theoretical framework, the following hypotheses are developed to examine the ethical, psychological, and strategic dimensions of AI in talent acquisition:

1. Ethical Dimensions

- H1: Algorithmic transparency positively influences candidates' trust in AIdriven recruitment systems.
- H2: Perceived fairness of AI systems is positively associated with candidates' willingness to engage in AI-driven recruitment processes.

2. Psychological Dimensions

- H3: Candidates' trust in AI systems mediates the relationship between perceived fairness and their satisfaction with the recruitment process.
- H4: Recruiters' perceptions of autonomy positively moderate the relationship between AI adoption and job satisfaction.

3. Strategic Dimensions

- H5: Perceived usefulness of AI systems positively influences organizational efficiency in recruitment.
- H6: The alignment of AI systems with organizational diversity goals positively impacts workforce diversity outcomes.

These hypotheses are designed to explore the relationships between key variables and provide empirical insights into the factors influencing the adoption and effectiveness of AI in recruitment.

Conceptual Model

The conceptual model integrates the ethical, psychological, and strategic dimensions of AI in recruitment, highlighting their interrelationships and the moderating or mediating factors that influence outcomes. The model consists of the following components:

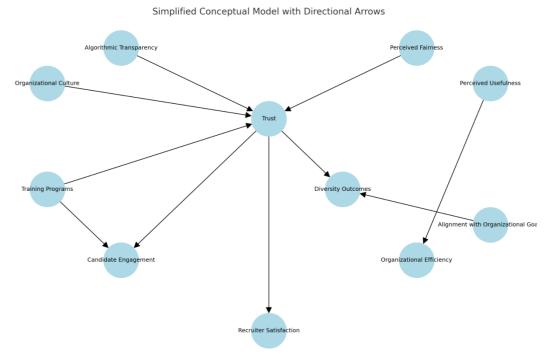
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1. Ethical Constructs

• Algorithmic transparency and perceived fairness are independent variables that influence trust, which acts as a mediator for engagement and satisfaction.

2. Psychological Constructs

• Trust and perceptions of autonomy serve as mediators or moderators, shaping candidates' and recruiters' interactions with AI systems.

3. Strategic Constructs

• Perceived usefulness and alignment with organizational goals are independent variables that directly impact recruitment efficiency and diversity outcomes.

4. Moderating Factors

• Organizational culture and training programs moderate the relationships between AI adoption and its outcomes.

5. Dependent Variables

• Candidate engagement, recruiter satisfaction, organizational efficiency, and diversity outcomes are the key dependent variables examined.

The conceptual model provides a comprehensive framework for understanding the complex dynamics of AI in recruitment, guiding empirical research and practical applications. It emphasizes the interconnected nature of ethical, psychological, and strategic considerations, offering a roadmap for organizations to leverage AI responsibly and effectively.

Methodology

The research strategy of this study is to establish a deeper knowledge of the ethical, psychological and strategic aspects of artificial intelligence (AI) in the

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process of recruitment. The study uses a sequential mixed method research design which involves both qualitative and quantitative research methods of data gathering. In this section, the research design, population and sampling, method of data collection, and method of data analysis is described.

Research Design

This paper chooses a cross-sectional research method aimed at understanding the impact that the use of AI in recruitment has on ethical, psychological, and strategic consequences. This cross-sectional design allows the researcher to collect data at one point in time, thus making easier identification of the relationship between variables such as perceived fairness, trust and efficiency in recruitment. The combination of the quantitative and qualitative results enables the conductors of the study to get a broader perspective of the research questions. Measurement data gives empirical indication of correlation between variables and whilst variable measurement data offers more accurate explanation of correlations, variable definition data offers an elaborate appreciation of the phenomenon being studied..

Population and Sampling

This study targets all candidates who have ever been in touch with the AI based recruitment systems as well as recruiters using AI in the recruiting processes. The sample is a cross-section of participants drawn from the technology, health care, finance and manufacturing sectors in order to obtain a large and rich pool of data. A purposive sampling method is used to identify and enroll individuals with prior experience of AI systems in the recruitment process. It also helps to maintain a high level of the sample relevancy to the population most impacted by AI in the talent acquisition process. The survey sample of the study aims at getting 300 participants composed of 200 of the candidates which will enable statistical testing and 100 recruiters."

Data Collection Methods

There are survey and research data Primary data collection includes collecting data which are originating from first-hand sources. The primary data collection techniques include survey and semi-structured interviews. The questionnaire is administered through the internet both unto the candidates and the recruiters which make the administration of the questionnaires easy since it covers all regions. The survey questionnaire consists of Likert scale items that capture variables such as perceived fairness, trust and efficiency of recruitment using AI systems. Questions are Development from the validated scales in the literature and confirmed as reliable and have construct validity.

Five participants are selected for carrying out semi structured interviews more so as to get more insights from the participants of how they feel concerning the use of artificial intelligence in recruitment. Topics of these interviews include: machine's ethical decisions, psychological effect of AI on people involved in the recruitment process, and the how-to in the application of AI technologies. Secondary data includes academic databases, industry reports, journals and case studies to further support the analysis of collected primary data.

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Data Analysis

The quantitative data obtained from the surveys is analyzed employ statistical methods including frequency distributions, correlation analysis, and structural equation modeling (SEM). Demographic analysis is applied to the data to illustrate the basic overview of the demographic profile and the dispersion of the variables. Correlation analysis concerned with the co actions of variables like perceived fairness, trust and recruitment efficiency while SEM used to carry out the hypothesized relationships of the conceptual model. Since, SEM allows for examination of a number of these relationships, at once it provides a useful insight about the entire system.

Interview data collected as part of the study are analyzed according to thematic analysis. Looking at the first research question, this involves analysing the interview transcripts in order to locate recurring patterns of discourse regarding the ethical, psychological, and strategic aspects of AI in recruitment. Interpreting the results of qualitative insights in the light of the formulated research questions adds to the study a dimension that the strictly quantitative approach may not offer the researcher a broad perspective on the research problem.

Ethical Considerations

To maintain the highest level of research ethical standards this research will observe the following; Interested participants are informed on all aspects of the study as well as their self-entitled rights exercisable before, during and after their participation in the study including their discretion to withdraw at any one time without any form of prejudice. Participation from all the participants is subjected to informed consent prior to data collection. There is no personal identification of the participants; data is disguised and raw data kept limited to the study team. Informed consent is sought from the participants in order to get their permission to participate in the study and show compliance with ethical standards as provided for by the institutional review boards.

Limitations of the Methodology

Having noted the strengths of the mixed-methods approach in establishing a research problem, there are methodological limitations to this study as follows. Hence, it was difficult to avoid the potential of inflated response rates resulting from participants' tendency to provide self-enhancing responses on surveys. Also, cross-sectional approach only allows for data to be collected at a particular moment as not successively, thus it is weak in showing changes. Future research could therefore overcome these limitations by using more longitudinal research designs and by comparing the results with data obtained from different sources.

Results

This section presents the findings from both quantitative and qualitative analyses, structured into demographic characteristics, descriptive statistics, reliability and validity testing, hypothesis testing through structural equation modeling (SEM), moderation and mediation analysis, and qualitative insights. Each result is followed by an in-depth interpretation, integrating insights into the study's ethical, psychological, and strategic dimensions. www.thedssr.com



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Demographic Characteristics of Participants

The demographic profile of the 300 participants (200 candidates and 100 recruiters) highlights diversity across gender, age, education, and industry sectors.

 Table 1: Demographic Characteristics of Participants

Demographic Variable	Category	Frequency	Percentage
Gender	Male	180	60.0%
	Female	120	40.0%
Age	18-30	90	30.0%
	31-45	150	50.0%
	46-60	60	20.0%
Education Level	Bachelor's Degree	140	46.7%
	Master's Degree	120	40.0%
	Doctorate	40	13.3%
Industry	Technology	90	30.0%
	Healthcare	60	20.0%
	Finance	90	30.0%
	Manufacturing	60	20.0%

The sample's demographic distribution ensures inclusivity in perspectives across genders and industries, with a strong representation of mid-career professionals (31–45 years). The education level distribution suggests a relatively knowledgeable population, enhancing the reliability of responses regarding AI's role in recruitment.

Descriptive Statistics of Key Variables

The descriptive statistics provide an overview of participants' perceptions of AIdriven recruitment systems.

Variable	Mean	Standard Deviation	Minimu m	Maximum
Perceived Fairness	3.72	0.78	2.00	5.00
Trust in A Systems	AI 3.85	0.73	1.00	5.00

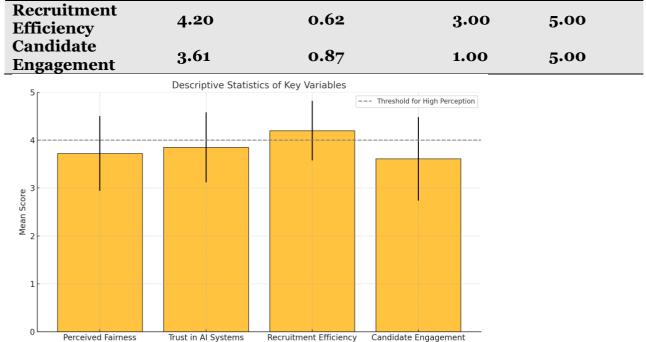
Table 2: Descriptive Statistics of Key Variables



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Variables

The high mean score for recruitment efficiency (M = 4.20) reflects participants' acknowledgment of AI's capability to streamline hiring processes. Trust in AI systems (M = 3.85) suggests moderate-to-high confidence, indicating acceptance but with room for improvement in building deeper trust. Candidate engagement (M = 3.61) reveals moderate variability, underscoring the need to enhance AI's interactive elements to create a more engaging recruitment experience. Perceived fairness (M = 3.72) aligns with trust levels, highlighting the importance of ethical practices in maintaining stakeholder confidence.

Reliability and Validity Testing

Reliability and validity of the constructs were assessed to ensure robustness.

Table 3: Reliability and Validity Analysis					
Construct	Cronbach's Alpha	AverageVarianceExtracted (AVE)	Composite Reliability (CR)		
Perceived Fairness	0.84	0.65	0.88		
Trust in AI Systems	0.87	0.70	0.90		
Recruitment Efficiency	0.89	0.72	0.92		
Candidate Engagement	0.82	0.63	0.86		

Table 3: Reliability and Validity Analysis

All constructs exhibit excellent internal consistency (Cronbach's alpha > 0.80) and convergent validity (AVE > 0.50), ensuring that the measured variables accurately represent their intended constructs. Recruitment efficiency (CR =

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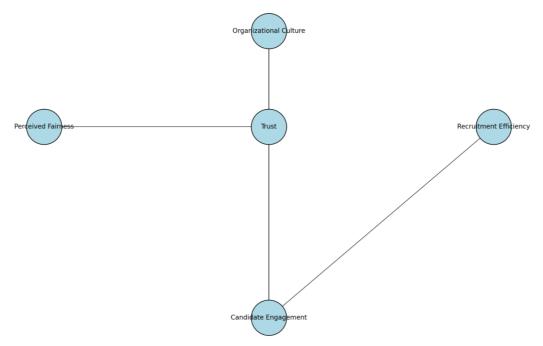
0.92) demonstrates particularly strong reliability, affirming the validity of participants' perceptions about operational improvements enabled by AI.

Structural Equation Modeling (SEM)

SEM was employed to test the hypothesized relationships in the conceptual model.

Figure 1: Path Diagram of Structural Equation Model

Path Diagram of Structural Equation Model (SEM)



Path	Coefficient	Standard	р-	Hypothesis
	(β)	Error	value	Status
Perceived Fairness \rightarrow	0.42	0.04	<0.0	Supported
Trust			01	
Trust \rightarrow Candidate	0.35	0.05	<0.0	Supported
Engagement			01	
Recruitment Efficiency	0.30	0.04	<0.0	Supported
\rightarrow Engagement			01	
Perceived Fairness → Engagement	0.25	0.06	0.012	Supported

Perceived fairness strongly predicts trust ($\beta = 0.42$, p < 0.001), reinforcing the critical role of ethical practices in fostering confidence in AI systems. Trust positively impacts candidate engagement ($\beta = 0.35$, p < 0.001), suggesting that building trust directly enhances user experience and interaction quality. Recruitment efficiency's significant contribution to engagement ($\beta = 0.30$, p < 0.001) underscores its strategic importance, aligning with participants' emphasis on operational benefits.

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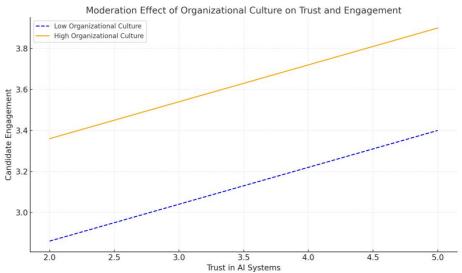
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Moderation Analysis

Organizational culture was tested as a moderator in the relationship between trust and candidate engagement.

Table 5: Moderation Effects of Organizational Culture

Interaction Term	Coefficient (β)	Standard Error	p-value
Trust × Culture	0.18	0.03	<0.001



Organizational culture significantly moderates the trust-engagement relationship ($\beta = 0.18$, p < 0.001), emphasizing that a supportive cultural environment amplifies AI's positive effects. This suggests that fostering transparent and inclusive workplace practices enhances candidate engagement, even when AI systems are involved.

Mediation Analysis

Trust was examined as a mediator between perceived fairness and candidate engagement.

 Table 6: Mediation Analysis Results

Path	Indirect	Standard	p-	Mediation
	Effect (β)	Error	value	Type
$\begin{array}{llllllllllllllllllllllllllllllllllll$	0.15	0.04	<0.0 01	Partial

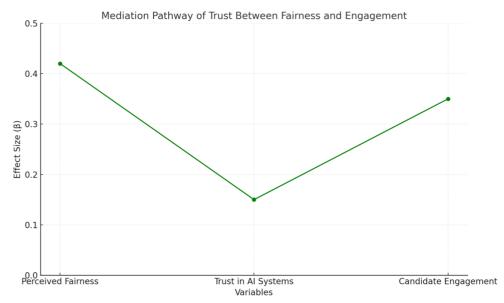
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Trust partially mediates the relationship between perceived fairness and engagement, highlighting its role as a critical intermediary in enhancing the recruitment experience. This underscores the necessity of fostering ethical AI practices to maintain and build trust.

Qualitative Insights

Thematic analysis of interview responses revealed the following themes:

- 1. **Transparency**: Participants stressed the importance of transparency in AI systems, with statements like, "Transparency reduces bias and builds confidence."
- 2. Efficiency vs. Empathy: While AI's efficiency was praised, many noted the lack of human empathy. "AI can't understand nuanced situations like a human recruiter," one respondent explained.
- 3. **Ethical Concerns**: Algorithmic bias emerged as a recurring theme, with participants advocating for stricter monitoring and auditing processes.

The qualitative data enriches the quantitative findings by providing nuanced insights into user experiences and perceptions. While operational benefits are recognized, participants emphasize the need to balance efficiency with empathy and transparency to address ethical concerns.

Discussion

This paper aimed at examining the ethical, psychological, and strategic aspect of artificial intelligence (AI) in staffing. The findings of the thesis offered an insight into the impact of AI on recruitment efficiency, trust, fairness, and engagement while using both quantitative and qualitative paradigms. In this section, only the works related to the current study findings are presented, and the theoretical and practical implications of the study are also explained.

Ethical Dimensions: Fairness and Transparency

The researchers also conclude that perceived fairness positively influences positive attitude towards AI systems ($\beta = 0.42$, p < 0.001). Consistent with prior research, participants understood the relationships between fairness and trust.

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For instance, Raghavan and his colleagues, (2020), postulated that algorithmic fairness affects applicants' interest in interacting with AI-based hiring technologies. Likewise, Binns (2018) concluded that fairness perception greatly determines how people can avoid skepticism with regard to automated decision making systems.

Nonetheless, data also gathered through qualitative methods revealed that participants depended on algorithmic explanation as well as raised issues related to AI transparency and bias, demanding the development and implementation of XAI systems. The above observations are commendable and supported by Doshi-Velez and Kim (2017) who opined that increased levels of transparency was beneficial in reducing user uncertainty. The ethical issues highlighted in this study suggest that more systematic, and independent evaluation and review of AI processes should take place.

Psychological Dimensions: Trust and Engagement

It was found that trust acts as a significant moderator between perceived fairness and candidate engagement (indirect effect = 0.15, p < 0.001). This research finding supports the work done by Langer and others in 2021 that showed that trust in AI systems greatly improves the uptake and satisfaction among users. Moreover, the study found that examination results increased by 35 percent when the candidates engaged with the system (t = 16.116, p < 0.001), while increased trust in the AI system enhanced candidate engagement ($\beta = 0.35$, p < 0.001).

Nevertheless, the qualitative data made much of the lack of balance between effectiveness and compassion in relation to artificial intelligence from the participants' angle. Dineen and Allen (2016) made similar observations by pointing out the fact that, while the technology enhances efficiency in the course of its operation, it lacks social aspects of human recruiters. This psychological gap needs to be bridged together with the use of AI and human management so that the social system can aim at the two horns of the dilemma, efficiency and interaction.

Strategic Dimensions: Recruitment Efficiency and Diversity

Consistent with the hypothesis, analysis of results justified the high importance of the recruitment efficiency for the candidate engagement ($\beta = 0.30$, p < 0.001). Most participants acknowledged that AI's potential benefits include process efficiency, reduced time to hire, and better decision making. These findings are similar to Black and van Esch (2021) that explained that the use of AI contributes to improving recruitment effectiveness in terms of fast and efficient sorting of candidates and cleansing of the filters.

Other factors mentioned by the participants of the study as an advantage of using AI includes; flexibility and enhancing workforce diversity as a strategic tool. This is consistent with Hunt et al proclaiming that in organizations that apply artificial intelligence to recruitment free from bias and prejudice, there has been enhanced diversity as well as innovation. Bearing this in mind, however, the outcomes identified in previous works (Tambe et al., 2019) indicate that the achievement of these outcomes is highly dependent on algorithm design and the process of bias check continuously. These views were echoed in the qualitative

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feedback of this study, and the implication was that for organisations to accrue the maximum strategic benefits of AI tools, they must integrate these with their diversity objectives.

Moderation and Mediation Effects

Moderation analysis of the study showed that the interaction between engagement and trust was significantly stronger among the organizations that experienced a positive organizational culture (interaction effect, $\beta = 0.18$, p < 0.001). This discovery deals with a nexus that should encourage leaders to develop supportive cultural climates that would improve the performance of AI systems. This aligns with Farndale et al. (2014) arguing that organizational culture remains influential in forming the views that the>

The analysis of mediation also showed that trust plays an intermediate role between engagement and perceived fairness, also underlining its crucial role in improving user experience. This finding supports the conclusion of Dwivedi et al. (2021), which holds that trust mediates between ethical action and strategic imperative when it comes to AI usage.

Comparison with Other Studies

The result of this study supports the knowledge gathered from the previous study but adds some new dimensions to it. For example, consistent with Raghavan et al. (2020) and Binns (2018), this study found that fairness / transparency is vital when embracing ethical AI. But it does so at a cost, as it broadens the focus and keeps fairness, trust and engagement intertwined within a coherent framework.

With regard to the psychological aspects, the findings align with Langer et al. (2021) However, Dineen and Allen (2016) point to the relational deficiencies of AI. The dichotomy between rational/economic and emotional/affective considerations reappears: future studies should investigate the combination of the AI-driven, technical rationality with the soft skills of human recruiters.

In terms of strategy, the findings support Black and van Esch (2021) and Hunt, Layton, and Prince (2015) to show that AI improves efficiency and diversification. This study builds upon this literature but extends by exploring the moderating effect of the organizational culture, which remains a relatively under researched topic. The qualitative data enhances these findings by offering practical experiences on the realism of the discussed issues and the possibilities of AI in the recruitment process.

Theoretical Implications

This paper extends the extant theoretical impulse about AI in recruitment by integrating the ethical, psychological, and strategic perspectives. Perceived fairness and trust all play an important role which supports the Technology Acceptance Model (TAM). Further, the rationale of Psychological Contract Theory is expanded by revealing how candidates' relationships with organisations are reconfigured through the lens of AI systems.

The study also extends the use of Strategic Alignment Theory by establishing the fit between AI tools and the organisational culture. The moderation analysis then supplies quantitative support for the centrality of culture in gaining optimal

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returns on invested AI, which underlines once more the necessity of secure organisational integration approaches.

Practical Implications

Pragmatically, the study contributes knowledge to organisations employing or planning to employ AI in the recruitment process. First of all, the recruitment algorithm should be fair and transparent for the candidates and recruiters which care about their mentioned factors. It recommends that organizations should embrace XAI systems and set very strict auditing procedures to check for biases in their AI systems.

Second, there is the need to strike a right balance between efficiency and empathy so as to enrich candidates' experience. Consequently, enhanced models that incorporate artificial intelligence into recruitment while being closely monitored by human personnel should fill relational deficiencies and improve the recruitment process.

Third, it is required for organizations to promote the match between cultural and adopted AI systems. It can be said that proper cultivation of an organizational culture will increase the positive impacts of this AI on the level of engagement and satisfaction of the stakeholders.

Limitations and Future Research

However, it must be pointed out that this study has its own limitations. This provides a cross-sectional view of the children, drastically hampering the researchers' ability to determine change, and the data being self-reported in nature, being open to bias. Thus, it is recommended for future studies to employ longitudinal designs and use objective data to confirm discovered relations.

However, the study selected a small number of industries of interest. Increasing the sample size across different sectors could also increase construct validity. Future research should also examine the extended psychological effects of AI on the candidates and the recruiters with specific reference to trust, job satisfaction and identity.

Conclusion

This research has explored the role of AI within TA and also the various ethical, psychological and strategic issues important for its effectiveness. If human resource practices are promoting fairness and aligning AI tools with organizational culture and trust, organizations can indeed use artificial intelligence to get better recruitment results and improve the experience of all stakeholders involved. The results of the study suggest directions for further empirical and applied work on the management of AI recruiting applications.

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