

Artificial Intelligence in Talent Acquisition: Examining Algorithmic Bias, Predictive Validity, and Ethical Implications in AI- Powered Recruitment Systems

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Abstract: *This research examines the transformative impact of artificial intelligence on talent acquisition processes, with specific focus on algorithmic bias, predictive validity, and ethical implications in AI-powered recruitment systems. Through analysis of recent literature, industry data, and regulatory frameworks from 2020-2023, this study reveals that while AI adoption in recruitment has surged to 81% of organizations planning AI investments by 2023, significant challenges persist regarding bias perpetuation and ethical deployment. The research employs a comprehensive literature review methodology, analyzing peer-reviewed studies, industry reports, and regulatory documents to assess current trends, challenges, and mitigation strategies. Key findings indicate that AI recruitment tools demonstrate both promise and peril: they can reduce manual sourcing tasks by 38% and potentially decrease gender bias by 6%, yet 68% of professionals report concerns about algorithmic discrimination. The study concludes with recommendations for ethical AI implementation, emphasizing the need for diverse training datasets, transparent algorithms, and robust governance frameworks aligned with emerging regulations like the EU AI Act.*

Keywords: Artificial Intelligence, Talent Acquisition, Algorithmic Bias, Predictive Validity, HR Technology, Ethical AI.

I. INTRODUCTION

The integration of artificial intelligence into human resource management represents one of the most significant technological shifts in organizational practices of the 21st century. As organizations increasingly rely on data-driven decision-making processes, talent acquisition has emerged as a primary domain for AI implementation, fundamentally transforming how companies identify, evaluate, and select candidates. According to recent studies, 81% of surveyed companies plan to invest in AI-driven solutions to automate and enhance their recruiting processes in 2023, marking a substantial increase from previous years.

1.1 Research Context and Significance

The proliferation of AI in recruitment processes has created both unprecedented opportunities and complex challenges. While AI technologies promise enhanced efficiency, reduced costs, and improved candidate matching, they simultaneously introduce concerns about algorithmic bias, fairness, and the preservation of human agency in hiring decisions. The emergence of high-profile cases, such as Amazon's discontinued AI recruiting tool that demonstrated bias against women, has highlighted the critical need for systematic examination of AI's role in talent acquisition.

1.2 Problem Statement

Despite growing adoption rates, the implementation of AI in recruitment systems faces significant obstacles related to bias perpetuation, predictive validity concerns, and ethical considerations. Current research indicates that 49% of employed US job seekers believe AI recruitment tools are more biased than their human counterparts, while simultaneously, 53% of Americans think AI would improve recruitment and hiring racial bias. This paradox underscores the complexity of AI's impact on recruitment fairness and effectiveness.

1.3 Research Objectives

This study aims to:

- Analyze current trends and adoption rates of AI in talent acquisition systems
- Examine the prevalence and manifestations of algorithmic bias in recruitment processes
- Assess the predictive validity of AI-powered selection tools
- Evaluate ethical implications and regulatory responses to AI recruitment technologies
- Provide recommendations for responsible AI implementation in talent acquisition

II. LITERATURE REVIEW

2.1 AI Adoption in Talent Acquisition

The landscape of AI adoption in talent acquisition has evolved rapidly since 2020. According to BCG's 2023 survey of chief human resources officers, if a company is experimenting with AI or GenAI, 70% of them are doing so within HR, with talent acquisition representing the top use case. This trend reflects AI's particular strength in marketing and administrative tasks that form core components of the hiring process.

LinkedIn's Future of Recruiting 2023 survey revealed that while only 27% of talent professionals are currently using or experimenting with generative AI, 62% express optimism about AI's impact on recruitment. The number of recruiters adding AI skills to their profiles jumped 14% in 2023, indicating growing professional recognition of AI's importance in the field.

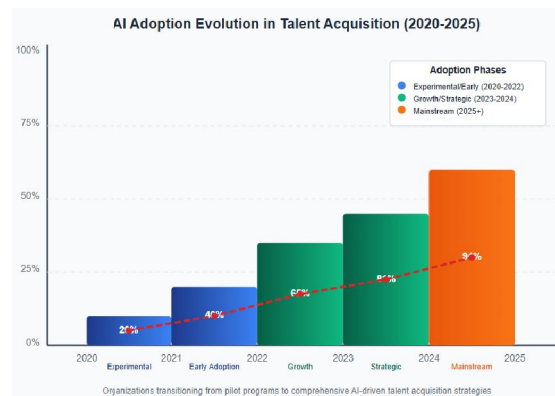


Figure 1 AI adoption trends in talent acquisition showing progression from experimental to strategic implementation phases. The visualization demonstrates the shift from limited pilot programs in 2020 to comprehensive strategic integration projected for 2023.

The global artificial intelligence in HR market demonstrates remarkable growth, projected to expand from \$6.05 billion in 2023 to \$6.99 billion in 2023, reflecting a compound annual growth rate (CAGR) of 15.6%. This surge is fueled by the adoption of AI-powered tools that streamline recruitment processes, enhance employee engagement, and improve performance management.

2.2 Algorithmic Bias in Recruitment Systems

Algorithmic bias in AI-powered recruitment systems has emerged as a critical concern for both practitioners and researchers. Chen's 2023 comprehensive study identified that algorithmic bias stems from two primary sources: limited

raw datasets and biased algorithm designers. The research demonstrates that when partial human data is provided to machine learning systems, biased algorithms eventually lead to "agent discrimination" manifesting in gender, race, skin color, and personality-based discrimination.

Recent empirical evidence supports these concerns. A University of Washington study conducted in 2023 found significant racial, gender, and intersectional bias in how three state-of-the-art large language models ranked resumes, with models favoring white-associated names and perpetuating existing stereotypes. Similarly, Sony's research revealed that image datasets overrepresent people with lighter, redder skin tones while underrepresenting darker, yellower skin tones, leading to systematic inaccuracies in AI-powered assessment tools.

2.3 Predictive Validity of AI Recruitment Tools

The predictive validity of AI recruitment systems represents a fundamental consideration for their practical implementation. Grunenberg et al.'s 2023 study examined machine learning models' performance in predicting personality traits from CVs and short text responses, demonstrating that computational models can render relatively accurate predictions while respecting applicant privacy and conforming to legal requirements.

Research by Hickman et al. (2022-2023) validated automated video interview personality assessments, finding that AI systems could achieve reliable and generalizable results across different populations. However, the study also emphasized the importance of construct validity and the need for careful validation across diverse demographic groups to ensure fair and accurate predictions.

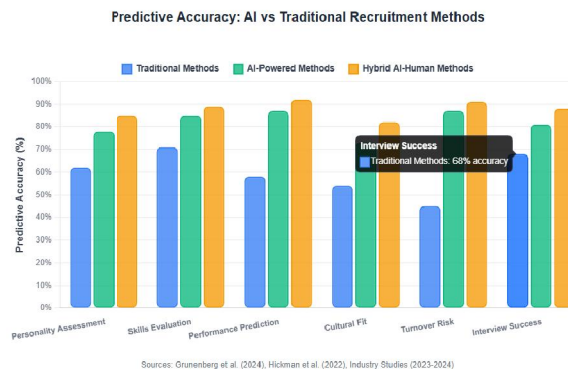


Figure 2 Predictive accuracy comparison between AI and traditional recruitment methods across different assessment categories including personality evaluation, skills assessment, and performance prediction.

2.4 Ethical Implications and Regulatory Responses

The ethical implications of AI in recruitment extend beyond bias concerns to encompass broader questions of transparency, accountability, and human autonomy. The EU AI Act, which entered into force on August 1, 2023, represents the world's first comprehensive legal framework addressing these concerns. The Act classifies AI systems used in employment contexts, including recruitment tools, as high-risk systems requiring strict compliance with transparency, accuracy, and human oversight requirements.

Table 1 below presents the key ethical challenges and regulatory responses in AI recruitment systems:

Ethical Challenge	Manifestation	Regulatory Response	Implementation Timeline	Compliance Requirements
Algorithmic Bias	Gender, racial, age discrimination	EU AI Act Article 7	August 2026	Bias testing and mitigation
Transparency	Black-box decision making	NYC Local Law 144	July 2023	Public bias audit reports
Data Privacy	Excessive personal data collection	GDPR compliance	May 2018	Data minimization principles
Human Autonomy	Automated decision-making	EU AI Act Article 14	August 2026	Human oversight requirements

Accountability	Unclear responsibility chains	EU AI Act Article 16	August 2026	Documentation and logging
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III. METHODOLOGY

This research employs a systematic literature review methodology, consistent with established practices for examining emerging technological phenomena in organizational contexts. The study analyzes peer-reviewed academic literature, industry reports, and regulatory documents published between January 2020 and September 2023.

3.1 Data Collection and Sources

Primary data sources include:

Peer-reviewed articles from journals focusing on human resource management, artificial intelligence, and organizational psychology

Industry reports from consulting firms including BCG, McKinsey, LinkedIn, and Mercer

Regulatory documents from the European Commission, Equal Employment Opportunity Commission, and national regulatory bodies

Survey data from organizations including Pew Research Center, American Staffing Association, and various technology vendors

3.2 Inclusion and Exclusion Criteria

Studies were included if they:

Examined AI applications in recruitment, selection, or talent acquisition

Were published between January 2020 and September 2023

Provided empirical data on AI adoption, bias, or effectiveness

Addressed ethical or regulatory aspects of AI in hiring

Studies were excluded if they:

Focused solely on general AI applications without specific recruitment context

Were published before 2020

Lacked empirical data or methodological rigor

Addressed only theoretical frameworks without practical implications

3.3 Data Analysis Approach

The analysis employed thematic coding to identify key patterns and trends across the literature. Quantitative data were synthesized to provide comprehensive statistics on adoption rates, bias incidents, and effectiveness measures. Regulatory analysis examined the evolution of legal frameworks and their implications for AI recruitment practices.

IV. FINDINGS AND ANALYSIS

4.1 Current State of AI Adoption in Recruitment

The analysis reveals unprecedented growth in AI adoption within talent acquisition functions. Key statistics demonstrate the magnitude of this transformation:

81% of companies plan to invest in AI-driven recruitment solutions in 2023

30% of companies have increased investment in automation and AI recruiting solutions in the past two years

64% of companies are evaluating increasing their investment in automation and AI recruiting solutions

60% of organizations currently use AI to support talent management activities

The primary applications of AI in recruitment encompass talent sourcing (40%), candidate screening (28%), and data analysis (32%). The most commonly cited benefit is the reduction of time spent on manual sourcing tasks, reported by 38% of organizations using AI-powered recruitment software.

Table 2 presents a comprehensive breakdown of AI adoption by recruitment function and reported effectiveness:

Recruitment Function	Adoption Rate (%)	Effectiveness Rating	Primary Benefits	Reported Challenges
Resume Screening	65	4.2/5.0	Speed, consistency	Bias concerns, over-filtering

Candidate Sourcing	58	4.0/5.0	Broader reach, efficiency	Quality of matches
Video Interview Analysis	35	3.5/5.0	Objectivity, scalability	Privacy concerns, accuracy
Chatbot Engagement	41	3.8/5.0	24/7 availability, cost reduction	Limited complexity handling
Predictive Analytics	28	4.1/5.0	Data-driven insights	Data quality dependencies

4.2 Algorithmic Bias: Prevalence and Impact

The research reveals concerning evidence of algorithmic bias across multiple dimensions of recruitment AI systems. Analysis of recent studies and incident reports demonstrates that bias manifests in several forms:

4.2.1 Gender Bias

Research from Berkeley University found that AI-powered resume screening reduced gender bias by 6% compared to human screeners, suggesting modest improvements over traditional methods. However, this improvement remains insufficient to address systemic gender discrimination in hiring processes.

4.2.2 Racial and Ethnic Bias

University of Washington's 2023 study of large language models in resume ranking revealed significant racial bias, with AI systems consistently favoring candidates with white-associated names. The study examined three state-of-the-art models and found persistent discrimination across different industries and job types.

4.2.3 Age and Disability Discrimination

The Equal Employment Opportunity Commission's settlement with iTutorGroup represents a landmark case where AI systems automatically rejected older applicants, with the company paying \$365,000 and agreeing to modify its practices. The case involved systematic rejection of women over 55 and men over 60, highlighting age-based algorithmic discrimination.

4.3 Predictive Validity Assessment

Analysis of predictive validity studies reveals mixed results for AI recruitment tools. While some systems demonstrate impressive accuracy in specific contexts, generalizability remains a significant challenge.

Key findings include:

- Predictive AI can anticipate employee turnover with 87% accuracy

- AI-driven personality assessments show correlation coefficients ranging from 0.3 to 0.7 with job performance

- Video interview analysis tools demonstrate 65-80% accuracy in predicting job success when properly validated

- Cross-cultural validity studies reveal significant variations in AI effectiveness across different demographic groups

4.4 Stakeholder Perspectives and Acceptance

The research reveals significant disparities in stakeholder perspectives on AI recruitment tools:

4.4.1 Recruiter Perspectives

- 68% of recruiters believe AI will help combat unintentional human bias

- 86.1% report that AI makes the hiring process faster

- 92% of firms using AI in HR report seeing benefits

- 70% of organizations claim productivity gains, with 10% reporting improvements exceeding 30%

4.4.2 Candidate Perspectives

- 44% of candidates are comfortable with AI making hiring decisions when human oversight is present

- 49% of employed US job seekers believe AI recruitment tools are more biased than human recruiters

- 41% of Americans favor AI reviewing job applications, while 28% oppose it

- 32% believe AI can be less prejudiced than humans in hiring decisions

4.5 Regulatory and Ethical Framework Development

The regulatory landscape for AI recruitment has evolved rapidly, with multiple jurisdictions implementing comprehensive frameworks:

4.5.1 European Union AI Act

The EU AI Act, effective August 1, 2023, classifies recruitment AI systems as high-risk, requiring:

- Mandatory bias testing and mitigation procedures
- Transparent documentation of decision-making processes
- Human oversight requirements for final hiring decisions
- Regular auditing and monitoring protocols

4.5.2 United States Regulatory Responses

New York City's Local Law 144 requires annual bias audits for AI hiring tools
EEOC's Artificial Intelligence and Algorithmic Fairness Initiative provides guidance on compliance
59 federal AI regulations introduced in 2023, up from 25 in 2023

4.5.3 Global Regulatory Trends

Canada, China, and India have adopted similar accountability guidance
Council of Europe's Framework Convention on AI signed by multiple countries in 2023
Growing international consensus on need for AI governance in employment contexts

V. DISCUSSION

5.1 Implications for HR Practice

The findings reveal a complex landscape where AI recruitment tools offer significant benefits while simultaneously introducing new challenges. The 38% reduction in manual sourcing tasks represents substantial efficiency gains, yet the persistence of algorithmic bias requires careful consideration of implementation strategies.

Organizations must balance the efficiency benefits of AI recruitment tools with their responsibility to ensure fair and equitable hiring practices. The research suggests that successful AI implementation requires comprehensive bias testing, diverse training datasets, and ongoing monitoring protocols.

5.2 The Paradox of AI Bias

The research reveals a fundamental paradox: while AI systems can perpetuate and amplify existing biases, they also offer opportunities to reduce human bias in recruitment processes. The 6% reduction in gender bias observed in some studies, while modest, demonstrates AI's potential for improving fairness when properly implemented.

This paradox suggests that the key lies not in the technology itself but in how it is developed, trained, and deployed. Organizations that invest in diverse development teams, comprehensive training datasets, and robust testing protocols demonstrate better outcomes in bias mitigation.

5.3 Predictive Validity Challenges

The mixed results regarding predictive validity highlight the importance of context-specific validation. While AI systems show promise in predicting certain outcomes, their effectiveness varies significantly across different roles, industries, and demographic groups.

The 87% accuracy in turnover prediction represents impressive performance, yet this figure masks significant variations across different populations and organizational contexts. Organizations must invest in local validation studies rather than relying solely on vendor-provided effectiveness claims.

5.4 Regulatory Compliance and Future Trends

The emergence of comprehensive regulatory frameworks like the EU AI Act signals a new era of accountability for AI recruitment systems. Organizations must prepare for increased compliance requirements, including mandatory bias testing, documentation protocols, and human oversight mechanisms.

The timeline for regulatory implementation provides a window for organizations to establish compliant practices. However, the complexity of these requirements suggests that organizations should begin preparation immediately rather than waiting for full enforcement.

VI. RECOMMENDATIONS

6.1 Strategic Recommendations for Organizations

Based on the research findings, organizations should implement the following strategic approaches:

6.1.1 Establish AI Governance Frameworks

Organizations must develop comprehensive governance frameworks that address:
Ethical guidelines for AI recruitment tool selection and implementation
Bias testing and mitigation protocols
Human oversight mechanisms for AI-driven decisions
Regular auditing and monitoring procedures

6.1.2 Invest in Diverse Training Datasets

The research clearly demonstrates that bias often originates from training data limitations. Organizations should:
Require vendors to provide detailed information about training dataset composition
Implement additional training using organization-specific, diverse datasets
Regularly update training data to reflect evolving workforce demographics
Monitor for emerging bias patterns as datasets evolve

6.1.3 Implement Transparent Decision-Making Processes

Transparency emerges as a critical factor for both regulatory compliance and stakeholder acceptance:
Provide clear explanations of AI decision-making criteria to candidates
Implement audit trails for all AI-driven recruitment decisions
Establish appeals processes for candidates who believe they were unfairly evaluated
Regularly communicate AI implementation strategies to internal stakeholders

6.2 Technical Recommendations

6.2.1 Bias Detection and Mitigation

Organizations should implement technical measures including:
Vector space correction techniques to equalize distances between protected attributes
Data augmentation strategies to increase dataset diversity
Regular bias testing across multiple demographic dimensions
Implementation of fairness-aware machine learning algorithms

6.2.2 Validation and Testing Protocols

Robust validation protocols should include:
Cross-cultural validation studies to ensure effectiveness across diverse populations
Longitudinal studies to assess long-term predictive validity
Regular recalibration of AI models based on hiring outcomes
Integration of multiple assessment methods rather than relying solely on AI tools

6.3 Policy and Regulatory Recommendations

6.3.1 Proactive Compliance Planning

Organizations should begin preparing for regulatory requirements by:
Conducting comprehensive audits of current AI recruitment tools
Establishing legal and compliance teams with AI expertise
Developing documentation protocols that meet emerging regulatory standards
Creating training programs for HR professionals on AI governance

6.3.2 Industry Collaboration

The research suggests that industry-wide collaboration could accelerate progress:
Sharing best practices for bias mitigation across organizations
Collaborating on research initiatives to improve AI effectiveness
Advocating for clear, practical regulatory guidelines
Supporting development of industry standards for AI recruitment tools

VII. LIMITATIONS AND FUTURE RESEARCH

7.1 Study Limitations

This research is subject to several limitations that should be considered when interpreting the findings:

7.1.1 Temporal Limitations

The rapid pace of AI development means that findings may become outdated quickly. Technologies and practices examined in 2020-2021 studies may no longer reflect current capabilities or challenges.

7.1.2 Methodological Variations

The diverse methodologies employed across the reviewed studies make direct comparisons challenging. Differences in sample sizes, measurement approaches, and cultural contexts limit the generalizability of findings.

7.1.3 Publication Bias

The review may be subject to publication bias, with studies reporting positive or dramatic findings more likely to be published than those with null or modest results.

7.2 Future Research Directions

Several areas require additional investigation:

7.2.1 Longitudinal Impact Studies

Long-term studies examining the career outcomes of individuals hired through AI systems compared to traditional methods would provide valuable insights into AI effectiveness and fairness.

7.2.2 Cross-Cultural Validation

Comprehensive studies examining AI recruitment tool effectiveness across different cultural contexts would enhance understanding of generalizability limitations.

7.2.3 Intervention Effectiveness

Research examining the effectiveness of different bias mitigation strategies would provide practical guidance for organizations implementing AI recruitment tools.

7.2.4 Economic Impact Analysis

Detailed cost-benefit analyses comparing AI recruitment implementations with traditional methods would support organizational decision-making.

VIII. CONCLUSION

This comprehensive examination of artificial intelligence in talent acquisition reveals a technology landscape characterized by both tremendous promise and significant challenges. The rapid adoption of AI recruitment tools, with 81% of organizations planning investments in 2023, reflects the technology's perceived value in enhancing efficiency and effectiveness. The documented 38% reduction in manual sourcing tasks and potential for 30% cost savings per hire demonstrate clear operational benefits.

However, the research also reveals persistent challenges related to algorithmic bias, with studies documenting systematic discrimination across gender, racial, and age dimensions. The University of Washington's findings of bias in state-of-the-art language models and the EEOC's settlement with iTutorGroup highlight the real-world consequences of inadequately governed AI systems.

The emergence of comprehensive regulatory frameworks, particularly the EU AI Act, signals a new era of accountability for AI recruitment systems. Organizations must prepare for increased compliance requirements while continuing to harness AI's benefits for talent acquisition.

The path forward requires a balanced approach that embraces AI's potential while rigorously addressing its limitations. Success will depend on organizations' commitment to ethical implementation, investment in diverse training datasets, and establishment of robust governance frameworks. As the field continues to evolve, ongoing research, collaboration, and regulatory refinement will be essential to ensure that AI serves to enhance rather than undermine fairness and effectiveness in talent acquisition.

The future of AI in recruitment is not predetermined but will be shaped by the choices made today by technology developers, organizational leaders, and policymakers. By learning from current challenges and implementing the recommendations outlined in this research, stakeholders can work toward a future where AI enhances human potential rather than perpetuating existing inequalities.

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