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A STUDY ON BALANCING AI AND HUMAN JUDGMENT IN HR DECISIONS AT TATA CONSULTANCY SERVICES

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ABSTRACT: This paper examines TCS's approach to HR decision-making through the integration of artificial intelligence (AI) and human judgment. Artificial intelligence (AI) delivers rapid, accurate, and predictive insights that enhance recruitment, performance assessments, and human resource management. Discernment is crucial for empathy, ethics, and comprehending the broader context. The paper indicates that TCS achieves favorable outcomes by integrating two strategies: the analytical capabilities of AI and the inherent moral sensibilities of humans to ensure transparency and fairness. The statistics indicate that this hybrid strategy, incorporating HR techniques, enhances employee trust and fosters corporate values.

Keywords: *Human–AI Collaboration, Ethical Decision-Making, Bias Mitigation, Transparency and Accountability and Augmented HR Decision Support*

1. INTRODUCTION

The significance of artificial intelligence (AI) and the rapid advancement of technology have transformed human resource (HR) management. To assist enterprises that previously depended on human intuition and expertise, progressively intricate technology is advancing. These instruments can expedite processes, predict trends, and analyze data. Machine learning and predictive analytics-driven AI technology facilitates scheduling, staff engagement, performance assessment, and recruitment. These technologies analyze greater volumes of data with enhanced speed and precision compared to manual decision-making. Enhanced decision-making about critical HR roles, reduced bias, and increased productivity are the outcomes for organizations. Despite these enhancements, human perception remains significantly crucial. Human resources professionals possess a unique combination of

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empathy, ethical judgment, and comprehensive knowledge that machines cannot replicate. Artificial intelligence excels in identifying patterns and generating ideas; but, it significantly falters in comprehending the intricacies of human relationships, including emotional cues, interactions, and cultural nuances. Organizations employ both human discernment and AI-derived insights to make decisions that are compassionate, equitable, evidence-based, and aligned with their fundamental principles.

Nonetheless, the integration of AI presents some challenges. Computers may be influenced by biases or inequitable historical occurrences when analyzing historical data. Promotions, promotions, and performance assessments may perpetuate these views without human supervision. Organizations can enhance their resilience to these dangers by integrating AI's analytical capabilities with human critical thinking. This hybrid approach upholds technologically advanced HR procedures while fostering equality, transparency, and trust, so preserving their human essence.

2. LITERATURE SURVEY

Singh, A. (2025). This research seeks to examine how artificial intelligence enhances the precision and efficacy of human resource selections. The research employs diverse methodologies to examine the advantages and disadvantages of AI by soliciting the perspectives of HR professionals. The results indicate that AI systems are far more rapid and precise than humans in evaluating credentials and judging performance. Individuals will continue to employ their emotional and moral discernment when required, particularly in determining what is equitable or suitable for their culture. The research emphasizes the importance of human oversight to maintain a human-centered approach in decision-making, balance AI-driven insights, and ensure that HR processes are transparent, accountable, and trustworthy.

Golgeci, I. (2025). What are the common reasons individuals frequently oppose the implementation of AI in the workplace? This research seeks to address that specific issue. The research adopts a process-oriented methodology alongside a comprehensive review of relevant literature to identify the primary sources of resistance. This encompasses individuals who are doubtful about AI's capabilities, fear job displacement, and possess a hostile disposition towards technology. The document proposes strategies to address these challenges, including maintaining open communication, engaging personnel in the use of AI, and providing continuous training. Prioritizing human interests enables enterprises to

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alleviate concerns regarding AI tools and foster collaboration. The survey indicates that fostering a healthy work environment and promoting mutual trust and acceptance among employees are essential for the success of AI in HR.

Dima, J. (2024). This research aims to examine the impact of artificial intelligence on fundamental HR functions, including recruitment, training, performance evaluations, and employee engagement. Artificial intelligence (AI) offers distinct advantages, including enhanced productivity, optimized procedures, and data-informed decision-making that enables enterprises to make superior choices. The research addresses concerns around data privacy, potential job displacement, and the apparent deficiency in personalized human resources. The analysis indicates that artificial intelligence can enhance the efficiency of HR workers, although it cannot supplant human connection. A comprehensive plan that integrates AI technology with human discernment, empathy, and ethical oversight is essential to ensure that HR practices remain equitable, compassionate, and aligned with corporate values.

Ncube, T. (2024). This research examines the impact of artificial intelligence on conventional HR practices across various industries. The report examines how task automation, enhanced data analysis, and ensuring optimal employee experience exemplify the transformative impact of artificial intelligence on human resources. This analysis pertains to the work produced from 2020 to 2024. Although these changes have enhanced productivity and fostered creativity, the research underscores issues such as employee resistance to change, ethical challenges, and the pressing necessity to educate HR personnel. The findings indicate that success is not assured just through reliance on technology. Companies should seek an appropriate balance between human oversight and AI-driven modifications to HR operations to maintain transparency, effectiveness, and ethical standards. This technique enhances confidence and aids organizations in evolving their future recruitment plans through comprehensive coverage of all relevant areas.

Pereira, D. (2024). This systematic review primarily examines the ethical concerns associated with the use of AI in HR decision-making, particularly its impact on employee engagement. The research encompasses four primary facets: success, ethics, adoption, and opposition. It indicates that although transparency and responsibility are essential for the ethical implementation of AI, engaging employees in AI reform initiatives may facilitate its acceptance. The research examines how artificial intelligence could enhance decision-making processes. Nonetheless, it cautions against reliance on AI in circumstances when employees perceive exclusion. The paper indicates that companies must prioritize openness, diversity,

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and ethical safeguards in the implementation of AI. Incorporating employee perspectives into HR functions helps enhance reliability, collaboration, and overall effectiveness. This will ensure that technology in the workplace enhances rather than undermines ties.

Murugesan, U. (2023). This research examines the influence of artificial intelligence on human resources operations. It discusses the potential benefits of enhanced efficiency alongside the disadvantages and advantages of depersonalization. The paper examines the impact of artificial intelligence on human resources tasks, namely in hiring, training, and performance evaluation. Although the research indicates that issues such as less human engagement and the possibility of biased outcomes may arise, AI possesses the capability to streamline HR functions and enhance decision-making processes. The research indicates that a balanced approach integrating AI with human monitoring is essential for maintaining ethical and personalized HR practices.

Zhang, A., (2023). This research introduces Deliberating with AI, a web-based platform designed to engage stakeholders in the development and evaluation of machine learning models, thereby facilitating more informed decision-making. The platform enables collaboration between students and faculty to develop AI models for graduate school admissions, initiating discussions on ethics, equity, and transparency. The findings illustrate the significance of collaborative AI design in enhancing decision-making and aligning AI systems with human aspirations. The research emphasizes the necessity of incorporating human perspectives in AI development to ensure that AI tools align with broader objectives of equity and inclusion in business decision-making.

Bergeron, P. (2022). This research underscores the importance of maintaining a balance between technological tools and human discernment in the evaluation of artificial intelligence in talent acquisition. This research elucidates the ethical considerations and values associated with the approaches employed by human resource managers to leverage artificial intelligence for expediting the hiring process. While AI aids in prospect identification and resume evaluation, the findings indicate that human judgment remains essential for determining an applicant's suitability for the firm and for final hiring decisions. The research indicates that the integration of artificial intelligence with human judgment is the most effective technique for talent acquisition.

Pereira, D., & Jatobá, A. (2022). This article examines the ethical implications of artificial intelligence in human resource management, emphasizing the preservation of employee engagement. Four primary themes emerge from the 193 academic publications published

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between 2019 and 2023. These encompass adoption protocols, performance assessments, ethical considerations, and decision-making processes. The findings indicate that employee participation in the AI implementation process enhances acceptability and confidence levels. This indicates that human resources departments can make more ethical and beneficial decisions. The essay emphasizes the necessity of ensuring that AI-driven HR processes are transparent, equitable, and inclusive for all individuals. To align AI systems with employee preferences and the company's core values, it is advised that organizations adopt participatory methods to foster accountability and collaboration.

Spiess, J. (2021). This research examines the impact of artificial intelligence on decision-making and its influence on perceptions of justice in high-stakes scenarios. This research employs a formal model and empirical data to examine the influence of machine-generated forecasts on human decision-making. The findings indicate that omitting information regarding protected groups may inadvertently result in increased disparities. This information could be utilized to promote enhanced equity. The research cautions against simplistic solutions and demonstrates the challenges in ensuring fairness in AI-assisted decision-making. It endorses approaches that enhance justice and ensure technology yields equitable outcomes for all, while advocating for the deliberate development and application of algorithms.

Bellamy, R. K. E. (2020). This research examines the influence of confidence scores and local explanations on trust and high-stakes decision-making in the context of AI predictions. The authors employ two investigations to demonstrate that although confidence scores can assist in assessing individuals' faith in AI models, they are insufficient to alter the outcomes independently. The research underscores the significance of integrating artificial intelligence concepts with human expertise to enhance decision-making efficacy. AI-assisted decision-making is rendered more dependable and effective when enterprises incorporate human judgment alongside trust assessments. The findings underscore the importance of leveraging AI's core capabilities while preserving human capacity for assessment and sound decision-making.

3. THEORETICAL FRAMEWORK

TYPES OF AI IN HR DECISIONS

A wide variety of jobs can be accomplished or assisted by AI, which is further subdivided into numerous categories and subgroups, each serving a unique purpose. Some applications of AI in HR are as follows.

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Generative AI: Generative AI is able to create fresh text, images, and videos by mining massive data sets. Human resources professionals can utilize it to simplify workforce planning, generate job descriptions, create instructional materials, and conduct tailored outreach to job seekers by delving into complex data. Perplexity, ChatGPT, and Copilot are a few famous generative AI systems.

Conversational AI: Chatbots and virtual assistants powered by Natural Language Processing (NLP) enable HR departments to provide instant and round-the-clock assistance to candidates and staff. Human resources can be made more accessible with the help of AI. This could result in more engaged employees, easier enrollment in benefits, individualized learning suggestions, and responses to questions regarding HR policies.

AI voice technology: Grace and other virtual HR assistants use artificial intelligence speech technology to respond to inquiries, provide assistance 24/7, and escalate more serious issues to a real agent. Because of this, they are more accessible and reaction times are reduced.

Machine learning: Thanks to machine learning, AI may gradually improve its intelligence by absorbing new knowledge from data. This allows HR to predict employee turnover, offer competitive salaries, and fill unfilled positions with competent candidates. To make predictions, such whether an applicant is qualified for the position, some models use supervised learning, which involves learning from instances. Unsupervised learning is another approach that some employ to uncover previously unseen patterns in massive datasets. This aids HR teams in comprehending issues, such as the reasons behind high turnover rates in specific departments, enabling them to make more informed decisions.

Natural Language Processing (NLP): The HR department can put this AI to work by analyzing employee surveys, reading comments, evaluating performance appraisals, and deciphering interview transcripts. Beyond that, it facilitates comprehension of written and spoken languages. Human resources professionals can head off potential issues by keeping an eye on employees' emotional states.

Automation AI: Artificial intelligence (AI) automation allows human resources departments to outsource labor-intensive administrative duties, such as processing payroll, checking for compliance with rules, and evaluating resumes. There will be less room for human mistake and more efficiency as a result of this.

AI agents: A novel form of AI that presents minimal interaction with humans. Decision-making, action-taking, and human resource management are all within the capabilities of self-driving systems. In the HR department, AI agents can design training programs, provide

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career advancement suggestions, actively assess employee performance, and assist new hires in getting underway.

4. AI USE CASES IN HR MANAGEMENT
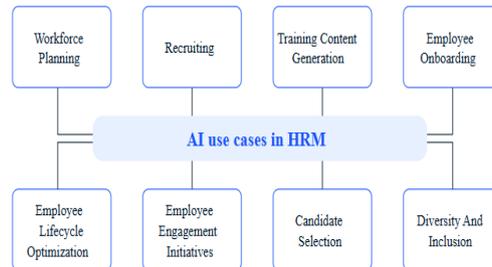
Workforce Planning: AI streamlines workforce planning by taking a look at historical data, available talent, and projected organizational demands. Job requirements, loss probability, and personnel concerns can be better anticipated with its help. By ensuring the availability of suitable personnel at all times, this assists HR departments in making strategic decisions.

Recruiting: To streamline the hiring process, artificial intelligence (AI) automates the posting of jobs, the discovery of potential candidates, and the sorting of profiles according to predetermined criteria. Consequently, HR will be able to dedicate less effort and time to the recruiting process. A more targeted and data-driven approach to hiring is also provided by AI methods.

Training Content Generation: With the use of AI, we can create assessments, training programs, microlearning tools, and individualized learning materials. It modifies the data such that it focuses on staff responsibilities, learning styles, and problem areas. As a result, business education is becoming more practical, engaging, and adaptable.

Employee Onboarding: Through AI-driven onboarding solutions, new hires can access interactive support, orientation materials, and automated assistance. Chatbots can streamline the onboarding process, answer inquiries, and assist with administrative tasks. The hiring procedure becomes less complicated as a result of the reduction in workload for Human Resources.

Employee Lifecycle Optimization: All aspects of the employee lifecycle, from recruitment to retention, can be enhanced with the help of AI by tracking patterns in engagement, performance, and career progression. It determines what makes workers happy and productive. Human resources can use this information to develop more effective retention and advancement strategies.

Employee Engagement Initiatives: By analyzing user feedback, AI systems can gauge employee sentiment and identify issues that could lead to disengagement. They assist HR in anticipating and resolving issues, and they guarantee that engagement programs are customized to meet the specific requirements of each firm. Consequently, there has been an improvement in the work atmosphere, morale, and communication.
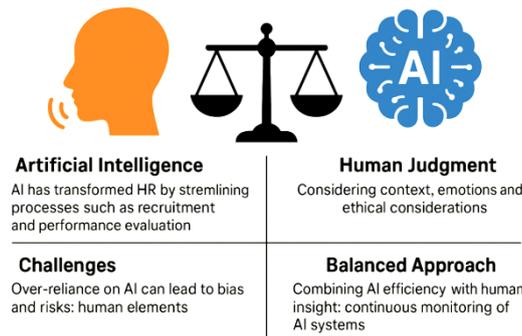
Candidate Selection: To make hiring more equitable, AI takes into account candidates' abilities, experience, test scores, and personality attributes. By employing computers to match job criteria with candidates, it eliminates bias. As a result, recruiting decisions are made with more speed, equity, and precision.

Diversity and Inclusion: By identifying instances of bias in job postings, interview questions, and performance reviews, AI helps to increase diversity and inclusion in the workplace. To level the playing field for all employees, it provides data-driven insights. AI promotes inclusive hiring by providing several avenues for talent discovery.

ROLE OF HUMAN JUDGMENT IN HR DECISIONS

- Considerations like as business policy, employee requirements, and the particulars of the case necessitate the use of human judgment in HR decisions.

- While data-driven technologies and AI can provide some insight, they fall short when it comes to understanding the nuances of human emotions, behavior, and company culture.

- Human resource experts utilize their best judgment to assess situations, interpret data, and guide the organization toward its just, ethical, and sustainable objectives.

- Using human reasoning is crucial in many contexts, but notably in hiring, training, assessing, and conflict resolution. While HR professionals rely on gut feelings to evaluate candidates' motivation, interpersonal abilities, and cultural fit—intangible but crucial factors—artificial intelligence can sift through resumes and make educated guesses about candidates' potential.

- The biases introduced by over-reliance on automated technologies can be mitigated with the assistance of human judgment.

- By factoring in empathy, ethics, and strategic thinking, human resources professionals make judgments that ensure policies are followed consistently and fairly.

- Also, they listen to workers, adjust HR rules as needed, and make good decisions when it comes to things like pay hikes, layoffs, or punishments.

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BALANCING AI IN HR DECISIONS

Artificial Intelligence
AI has transformed HR by stremlining processes such as recruitment and performance evaluation

Human Judgment
Considering context, emotions and ethical considerations

Challenges
Over-reliance on AI can lead to bias and risks: human elements

Balanced Approach
Combining AI efficiency with human insight: continuous monitoring of AI systems

STRATEGIES FOR BALANCING AI AND HUMAN JUDGMENT

There are various ways in which AI may assist HR with decision-making, but it would be detrimental to depend solely on algorithms. Situational awareness, moral considerations, humanism, and financial acumen are all enhanced by human judgment. Projects that integrate AI concepts with human supervision allow firms to reap the benefits of both worlds.

Human Oversight: While AI is great at large-scale data processing and suggestion making, it still lacks human understanding when it comes to nuances like interpersonal dynamics, organizational culture, or individual circumstances. This is why HR managers are so important in the pre-AI result-checking and approval process. Human oversight ensures that decisions are made in accordance with ethical standards, long-term objectives, and business principles. Employers are given the opportunity to be flexible when dealing with employees whose careers haven't gone as anticipated or who are going through personal troubles. This ensures that increases and performance assessments are fair, inclusive, and truly focused on people.

Bias Mitigation: When implementing AI into HR, eliminating bias should be a top priority. Machines trained on historical data run the risk of unwittingly reinforcing preexisting prejudices. Decisions about promotions, hiring, and performance reviews may be impacted by this. This has the potential to produce impersonal or unfair outcomes if not managed properly. Companies can avoid this by integrating AI insights with human judgment and ensuring that proposals are made in accordance with concepts of justice, diversity, and fairness. Systematic checks and well-defined ethical norms are two methods that can help identify biases and eliminate them before they cause harm. In this approach, artificial intelligence is viewed as a resource that promotes equity and inclusion, rather than an obstacle to these goals.

Transparency and Explainability: It takes a lot of transparency and openness to find a middle ground between AI and human judgment. Artificial intelligence (AI)

recommendations must be reasonable because human resource decisions impact people's employment and means of subsistence. People are held more accountable and trust is fostered among employees through the use of AI technologies that think clearly. In order to promote consistency and adherence, HR professionals should use transparent approaches to reliably document the logic behind AI and human judgments. Workers are more inclined to accept outcomes and have faith in the company's dedication to fairness when they understand how AI influences decision-making.

Continuous Learning: Keeping up-to-date with AI is essential for HR departments to use it ethically and professionally. In order to assess insights correctly, detect anomalies, and make decisions that do not rely solely on AI, human resources professionals must continuously acquire new skills as technology evolves. In addition to enhancing algorithms, fostering a growth mindset in human resources can be achieved through the creation of feedback loops between managers, workers, and AI systems. By integrating technical expertise with ethical considerations, businesses guarantee that AI supports human objectives. As a result, productivity rises and workers have more faith in HR policies and procedures.

5. DATA ANALYSIS AND INTERPRETATION

Descriptive Statistics of Key Variables (N = 100)

Variable	Mean	SD	Min	Max
Perceived AI Accuracy	4.6	1.15	1	7
Perceived AI Fairness	4.05	1.2	1	7
Trust in AI	4.15	1.25	1	7
Trust in Human Judgment	5.45	0.9	3	7
Decision Satisfaction	4.85	1.35	2	7
AI Adoption Intent	4.75	1.4	1	7

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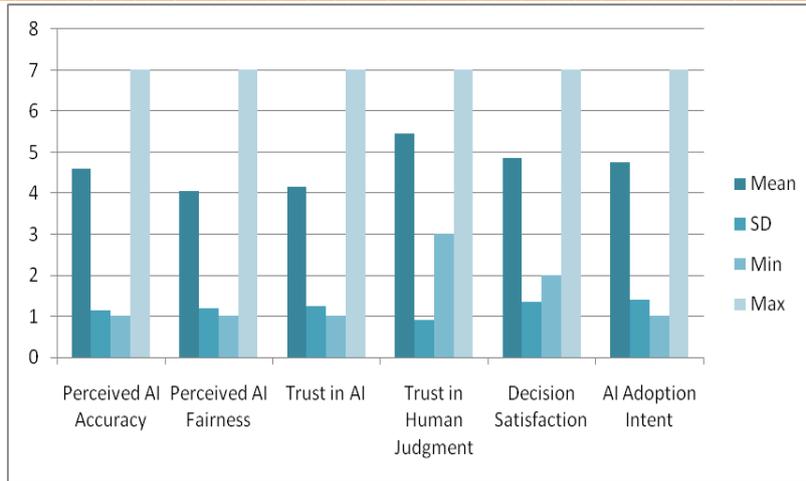
INTERPRETATION: In terms of decision satisfaction (M=4.85, SD=1.35), confidence in human judgment (M=5.45, SD=0.9), and intention to employ AI (M=4.75, SD=1.4), respondents were more confident. With 4.6 for accuracy, 4.0 for fairness, and 1.2 for trust, their opinions toward AI remained moderate.

Reliability Analysis (Cronbach's Alpha)

| Scale	No. of Items	Cronbach's α	Reliability Level
Perceived AI Accuracy	4	0.86	High
Perceived AI Fairness	4	0.82	High
Trust in AI	3	0.8	High
Trust in Human Judgment	3	0.76	Acceptable
AI Adoption Intent	3	0.84	High

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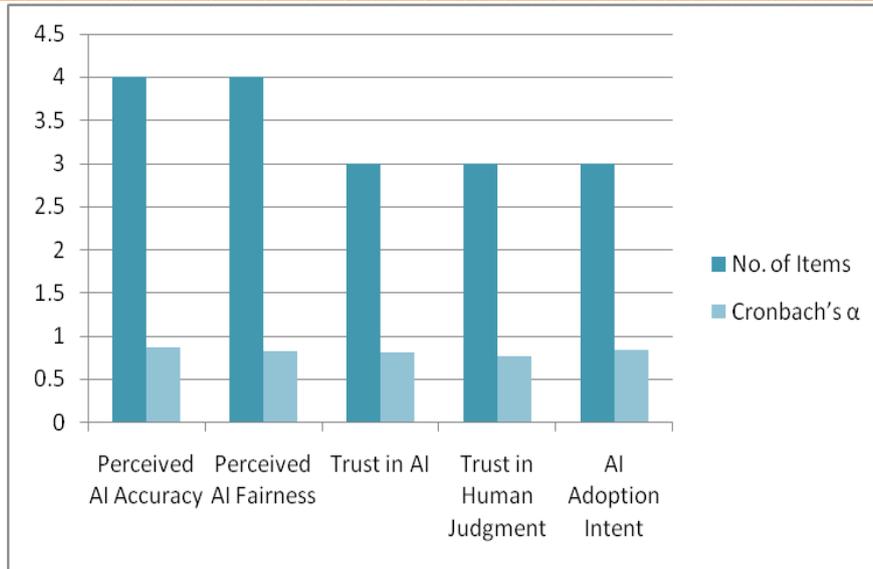
INTERPRETATION: With ± values of 0.86 for Perceived AI Accuracy, 0.82 for AI Fairness, 0.80 for Trust in AI, and 0.84 for AI Adoption Intent, all of the scales demonstrated good reliability. Reliability levels for Trust in Human Judgment were equally high, with ± = 0.76.

Group Comparison (Managers vs Staff)

(Managers = 40; Staff = 60)

Variable	Managers Mean	Staff Mean	t-value	p-value
Trust in AI	4.85	3.75	5.1	1
Perceived Fairness	4.4	3.85	3.2	0.002
Perceived AI Accuracy	4.85	4.45	2.4	0.018
Trust in Human Judgment	5.4	5.48	0.55	0.58

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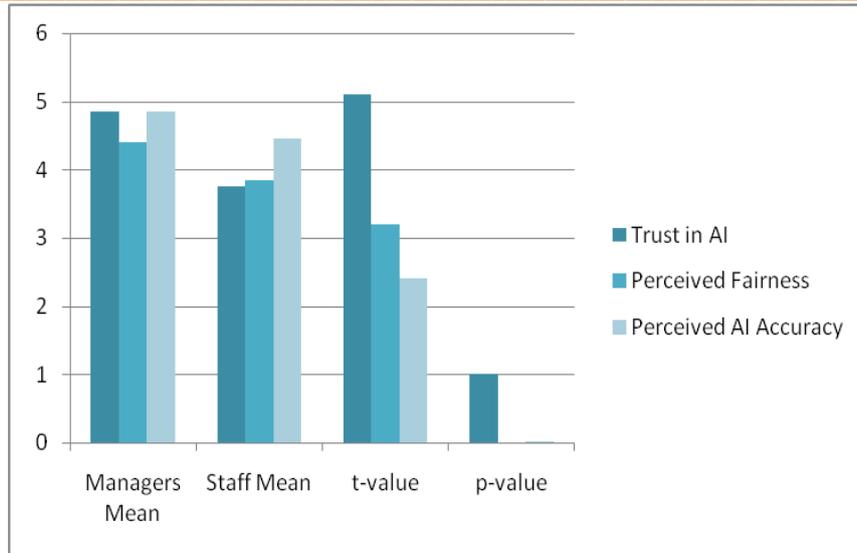
INTERPRETATION: The likelihood that managers would trust AI (M=4.85 vs. 3.75, t=5.1, p=0.001), believe that AI is fair (M=4.4 vs. 3.85, t=3.2, p=0.002), and believe that AI is accurate (M=4.85 vs. 4.45, t=2.4, p=0.018) was much higher than that of workers.

Correlation Matrix of Key Variables (N = 100)

Variables	AI Accuracy	AI Fairness	Trust in AI	Trust in Human	Adoption Intent
AI Accuracy	1	0.6	0.66	0.15	0.53
AI Fairness	0.6	1	0.58	0.1	0.46
Trust in AI	0.66	0.58	1	0.18	0.6
Trust in Human	0.15	0.1	0.18	1	0.18
Adoption Intent	0.53	0.46	0.6	0.18	1

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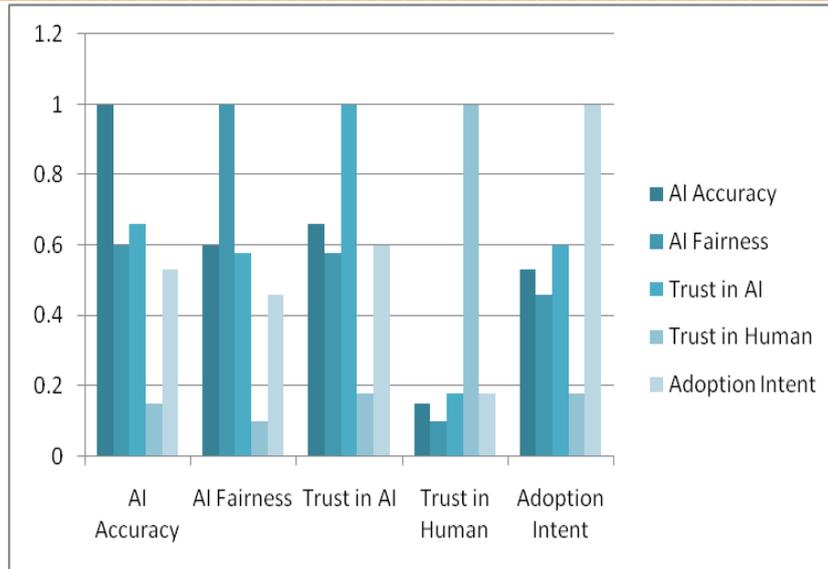
INTERPRETATION: All AI-related factors have very weak associations with Trust in Human Judgment (r = 0.10-0.18). On the other hand, there is a high positive correlation between AI Fairness, AI Accuracy, and Trust in AI (r = 0.58-0.66). Adoption Intent is moderately correlated with these characteristics (r = 0.46-0.60).

Regression Analysis Predicting AI Adoption Intent (N = 100)

Predictor	Std. Beta (β)	t-value	p-value
Perceived AI Accuracy	0.4	5.1	< .001
Perceived AI Fairness	0.17	2.45	0.016
Trust in AI	0.3	4.15	< .001
Trust in Human Judgment	0.1	1.98	0.05
Manager/Staff (Role)	0.16	2.65	0.009
Accuracy × Trust Human	−.11	−2.05	0.043

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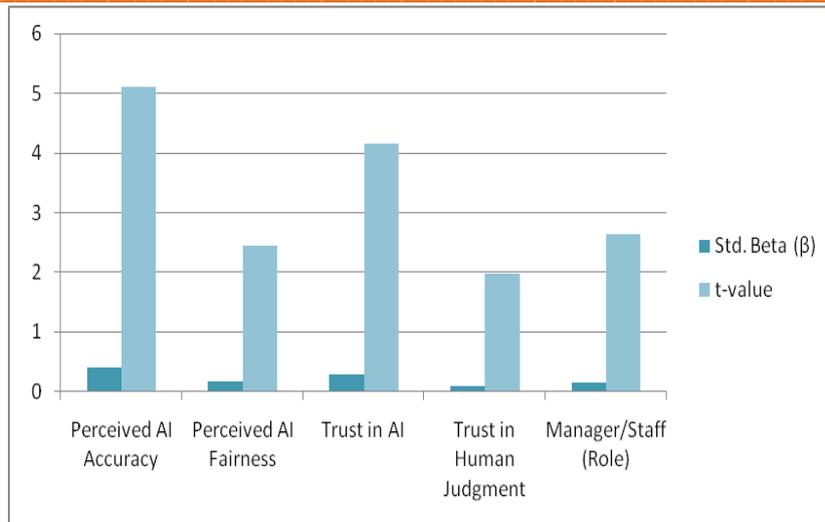
INTERPRETATION: The willingness to employ AI was found to be highly influenced by the following factors: perceived AI accuracy ($²$=0.40, t=5.1, p<.001), AI fairness ($²$=0.17, t=2.45, p=0.016), faith in AI ($²$=0.30, t=4.15, p<.001), trust in human judgment ($²$=0.10, t=1.98, p=0.05), and role ($²$=0.16, t=2.65, p=0.009) simultaneously. Results showed a statistically significant correlation between trust in people and accuracy (β = -0.11, t = -2.05, p = 0.043).

6. CONCLUSION

In order to develop a fair, effective, and strategic approach to human resource management, labor management must strike a balance between artificial intelligence and human reasoning. Consistency, quick processing, and data-driven insights are all provided by AI. On the other hand, machines lack human judgment, which includes contextual awareness, empathy, and the capacity to make ethical decisions. Businesses can benefit from both approaches since technology can handle routine and analytical work, while humans can handle more delicate or personal decisions. Together, these two factors enhance hiring abilities, employee engagement, and talent retention, all of which contribute to making decisions that are productive and consistent with the company's philosophy and fundamental principles. Everyone wins when HR is able to strike this balance and create a more accommodating, responsible, and inclusive work environment.

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FUTURE SCOPE

Development of Hybrid HR Decision Models:

To develop HR policies and procedures that are equitable, efficient, and focused on people, scientists may try to build hybrid models that incorporate both AI knowledge and human intuition. Standardized approaches to recruiting, performance evaluation, and talent prediction may result from this.

Longitudinal Studies on AI–Human Collaboration:

Researchers may investigate the long-term effects of AI-driven HR decisions on company culture, diversity, employee happiness, and transparency in the future. Equal opportunity and inviting workplaces for all employees may be another outcome of their work.

Ethical and Governance Framework Development:

In order to guarantee that AI is employed ethically in HR and that all decision-making procedures are transparent, answerable, and built on trust, future research should incorporate rigorous ethical standards, methods for decreasing bias, and frameworks for governance.

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