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## HR Tech and Digital Transformation IN MNC's in Bengaluru

*Bhavana A<sup>1</sup>, Jestika K M<sup>2</sup>, Dr. Veena Bhavikatti<sup>3</sup>*

<sup>1,2</sup>Department of MBA, AMC Engineering College, Bangalore 560083

<sup>3</sup>Associate Professor, Department of MBA, AMC Engineering College, Bangalore 560083

### ABSTRACT

*The growing adoption of HR technology is transforming how multinational corporations (MNCs) manage people across global teams. Tools like AI-driven recruitment systems, digital learning platforms, and cloud-based HR solutions promise to make HR practices more efficient, data-driven, and personalized. Yet these changes also bring real challenges, such as cultural differences, data privacy concerns, and the need to keep human connection at the center of HR. This paper explores how MNCs navigate these opportunities and obstacles, highlighting the balance required to successfully integrate digital tools while supporting diverse and dynamic workforces.*

**KEYWORDS:** HR technology, Digital transformation, Human resource management, Artificial intelligence in HR, Employee experience.

### INTRODUCTION

In today's fast-paced and interconnected world, multinational companies can't afford to stick to old ways of managing people. What used to be mostly paperwork and routine HR tasks has now become a key part of staying competitive. Thanks to new HR technologies—like cloud-based systems and real-time data analytics—these companies can better hire, engage, and support employees across different countries and cultures. But digital transformation in HR isn't just about installing fancy software; it's about creating smoother global processes, making sure local rules are respected, and keeping teams connected no matter where they're located.

While this brings clear advantages like quicker decision-making and more personalized experiences for employees, it also comes with challenges such as protecting data privacy, handling cultural differences in using new tools, and making sure work still feels human. This paper takes a closer look at how global companies are using HR tech to change the way they work, and what it really takes to get it right.

### OBJECTIVES OF THE STUDY

- To see how HR tech helps global companies manage people better.
- To explore how digital tools improve hiring, training, and engagement.
- To understand the challenges MNCs face when using new HR technologies.
- To learn how data helps HR teams make smarter decisions.
- To find ways to keep the human touch while going digital.

### REVIEW LITERATURE

- **Robert et al. (2020) – Designing Fair AI in HR**, This paper takes a deep look at fairness in AI-driven HR tools. Using justice theory, it shows how automated systems can unintentionally create biases—like unfair hiring decisions or opaque evaluations. The authors argue that if AI is going to be trusted, it must be designed with fairness in mind from the start.
- **Vrontis et al. (2021) – Mapping AI in HRM Research**, This research paper using both systematic review and bibliometric analysis, this study maps how research on AI in HR has evolved. It identifies key themes like recruitment automation, AI in performance appraisals, and the ethical implications of algorithmic decision-making. The authors propose a future research agenda focusing on bias, transparency, and adoption barriers.
- **Nosratabadi et al. (2022) – AI Across the Employee Lifecycle**, This research paper is on how artificial intelligence is used throughout different stages of an employee's journey—from hiring to exit. Algorithms like decision trees and neural networks are becoming popular in recruitment

and onboarding, but the research shows that AI isn't yet widely applied in areas like retention or offboarding. The field is still developing, with many companies testing the waters.

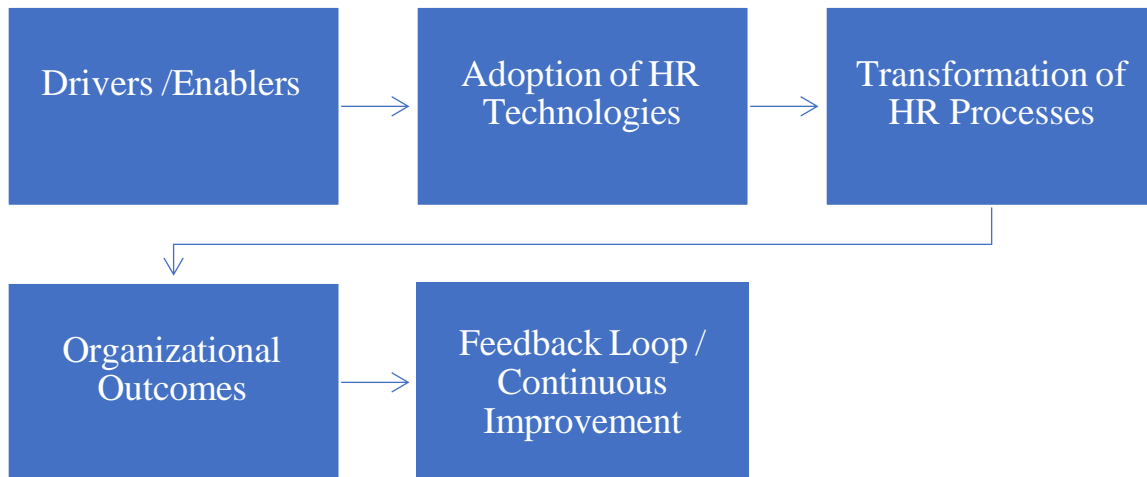
- **ScienceDirect (2022) – HRM 4.0: Key Themes and Trends**, This research paper analyzing nearly 100 papers, this study outlines how digital technologies like AI, robotics, and big data are reshaping HR across recruitment, learning, and performance. It emphasizes the “human-digital” workplace a space where tech doesn't replace people but supports them.
- **Fathi et al. (2022) – Capturing AI's Value in HR**, In this research paper Fathi and colleagues argue that adopting AI in HR isn't just about buying software—it's about building the right capabilities across people, infrastructure, and leadership. They propose a framework that includes both technical tools and non-technical elements like collective intelligence and change management.
- **Pereira et al. (2023) – AI and Workplace Outcomes**, This paper looking across different HR processes, this study examines how AI affects outcomes like productivity, engagement, and turnover. While AI can increase efficiency and improve performance insights, it may also reduce autonomy or introduce bias. The review calls for a balanced approach—assessing both the technical and emotional impacts of AI on employees.
- **Yu & Jinajun (2023) – Digital HR in the Big Data Era**, This paper explores how big data and digital platforms are reshaping HR services, from hiring and onboarding to engagement and retention. Intelligent systems like chatbots and mobile apps make processes smoother, but they also raise questions about ethics, privacy, and the human touch. The study urges HR leaders to rethink traditional metrics and adopt a new business logic for digital operations.
- **Bouguerra & Marler (2023) – HR Analytics in the Public Sector**, This paper highlights how public agencies are beginning to use HR analytics to improve hiring, training, and workforce planning. But compared to the private sector, public organizations face unique challenges—like political oversight, tight budgets, and strict accountability. The authors argue that analytics must be adapted to fit the public context.
- **MDPI (2023) – Digital Maturity in HR Post-COVID**, This paper examines how the COVID-19 pandemic pushed organizations to go digital faster than ever. But speed isn't the same as maturity. True digital transformation, the review finds, requires strategic alignment, employee training, and robust governance. It's not just about tech deployment it's about learning, inclusion, and long-term planning.
- **Banerjee & Sharma (2024) – Talent Management in Industry 4.0**, This paper explores how technologies like AI, automation, and IoT are transforming talent management. Instead of just replacing tasks, these tools are helping HR teams build more collaborative, growth-focused workplaces. The authors stress that when HR and employees co-develop skills—especially digital, creative, and interpersonal ones—organizations adapt faster to change.
- **Bratamanggala (2024) – Digital Transformation in HR**, In this research paper Bratamanggala identifies both the pain points and possibilities of digital transformation in HR. Common hurdles include technical skill gaps, resistance to change, and complex systems integration. On the flip side, organizations that embrace change enjoy better efficiency, more insightful decision-making, and stronger employee engagement.
- **Aydin et al. (2024) – Immersive Tech in HR**, This research paper explores how HR professionals feel about emerging tools like virtual reality, augmented reality, and the metaverse. While many see exciting possibilities—like immersive training or virtual teamwork—others worry about practical issues like data security and tech readiness. Some organizations are eager to explore; others are more cautious.
- **Frontiers (2024) – AI's Impact on HR Functions**, This research paper maps how AI affects eight key HR functions, from workforce planning to wellbeing. AI boosts efficiency and offers predictive insights—but it can also raise concerns about deskilling and loss of autonomy. The review emphasizes that different stakeholders—HR, managers, and employees—experience AI in different ways.
- **Siddiqui, Zafar & Hussain (2025) – HR Analytics in Banking (Pakistan)**, This research paper examines how HR analytics is being used in Pakistan's banking sector. Based on surveys with HR professionals, it finds that while analytics is seen as important, many banks still face barriers like lack of expertise, data quality, and clear models. The authors offer a new conceptual framework to help banks better use analytics for decision-making.
- **Caratù et al. (2025) – Strategic Issues in HR Digitalization**, This research paper looks at how HR must juggle multiple roles in a digital era. It's not just about using new tools HR needs to drive ethical, sustainable, and data-informed practices. One key message is the importance of workforce training: without skilled people, digital tools fall flat.

## RESEARCH GAP

	Citation	Research Design	Objectives	Key Findings
1	Banerjee & Sharma (2024) – <i>Digital transformation and talent management in Industry 4.0</i>	PRISMA review (629 → 42)	Understand Industry 4.0 impacts on talent management; propose framework	Tech enhances creative/digital skills; collaborative HR facilitates continuous learning

2	Bratamanggala (2024) – <i>Digital transformation in HR</i>	PRISMA review (literature synthesis)	Analyze drivers, mechanisms, and effects of digital HRM transformation	Identified 5 drivers (innovation, competition, governance, etc.); efficiency gains vs. integration barriers
3	Nosratabadi et al. (2022) – <i>AI Models and Employee Lifecycle Management</i>	PRISMA review (23 studies)	Assess AI across recruitment to offboarding	AI (RF, SVM, AdaBoost, DT, ANN) for full lifecycle; field is nascent, more empirical work needed
4	Caratù et al. (2025) – <i>Strategic Issues in HR Digitalization</i>	Systematic + text- mining review	Identify strategic challenges in HR digitalization	Challenges: legacy systems, data privacy, ROI measurement, resistance to change
5	ScienceDirect (2022) – <i>HRM 4.0: Key Themes and Trends</i>	Thematic editorial/review	Map emerging HRM-4.0 post- COVID trends	Highlights AI integration, global mobility, diversity, pandemic-driven disruptions
6	Aydın et al. (2024) – <i>Immersive Tech in HR</i>	Empirical survey/comparative analysis	Evaluate HR perspectives on AI, VR/AR, Metaverse tech	Interest in immersive tech for training/recruitment; concerns include privacy and adoption gaps
7	Robert et al. (2020) – <i>Designing Fair AI in HR</i>	Literature review with theoretical framing	Introduce justice frameworks and create a fair AI design agenda in HR	Defines distributive, procedural, interactional fairness; proposes justice- based design agenda
8	Frontiers (2024) – <i>AI's Impact on HR Functions</i>	Abductive case study	Explore enablers/barriers for AI in HR ecosystems	Identifies ethical readiness, data limitations, talent pool issues; stresses human- machine balance
9	MDPI (2023) – <i>Digital Maturity in HR Post-COVID</i>	Thematic analysis of 190 articles	Assess digital maturity of HR post-pandemic	2024 had peak publications; highlights e-HRM, analytics, leadership challenges
10	Fathi et al. (2022) – <i>Capturing AI's Value in HR</i>	Systematic review (multi-process output analysis)	Review AI's effects on workplace performance	AI impacts antecedents, phenomena, outcomes across HR functions; need integrated frameworks
11	Siddiqui, Zafar & Hussain (2025) – <i>HR Analytics in Banking (Pakistan)</i>	Empirical field study—likely survey/interviews	Examine HR analytics adoption in Pakistani banks	Analytics improves hiring, performance, retention; challenges with data quality & skills
12	Bouguerra & Marler (2023) – <i>HR Analytics in Public Sector</i>	Empirical review	Identify analytics application and barriers in public HR	Public sector uses analytics in recruitment/performance; weak data structures & skill gaps
13	Vrontis et al. (2021) – <i>Mapping AI in HRM Research</i>	Systematic review (n=13,136 screened)	Clarify AI/robotics tech contributions and trends in HRM	Organizational and employee-level impacts; need clarity on outcomes and theoretical basis
14	Yu & Jinajun (2023) – <i>Digital HR in Big Data Era</i>	Conceptual/thematic review	Explore Big Data's influence on digital HR roles	Big data enables predictive HR decisions; reliance requires privacy safeguards

15	Pereira et al. (2023) – <i>AI and Workplace Outcomes</i>	Systematic review (60 articles)	Analyze AI's impact on workplace outcomes from HR function lens	Presents multi-level framework (antecedents– phenomena–outcomes); offers future research agenda
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**Table No. 01: Showing Research Gap****CONCEPTUAL MODEL****Figure No.01: Showing conceptual model****PROBLEM STATEMENT**

While HR technology offers multinational corporations (MNCs) powerful tools to modernize talent management, improve efficiency, and support employees across global teams, its adoption is far from simple. MNCs face unique challenges, such as aligning digital HR practices across diverse cultures, navigating different data privacy laws, and ensuring consistent employee experiences worldwide. At the same time, there is a risk that increased reliance on digital systems could weaken the personal, human-centered approach that employees still expect from HR. This paper seeks to explore why these challenges emerge and how MNCs can balance the promise of HR tech with the need to stay connected to the people behind the technology.

**RESEARCH METHODOLOGY**

This study aims to understand how multinational corporations (MNCs) in Bangalore adopt HR technology and navigate digital transformation. The methodology has been carefully chosen to gather practical, real-world insights directly from HR professionals working in these organizations.

**RESEARCH DESIGN**

The research uses a qualitative design, which is suitable for exploring perceptions, experiences, and organizational practices that are often hard to capture through purely numerical data.

The study focuses on MNCs based in Bangalore, reflecting the city's unique position as India's leading hub for technology, global business services, and innovation. This design allows the research to capture insights specific to the local context while still reflecting the broader trends in multinational corporate HR transformation.

**Primary data collection**

Primary data was collected through a structured online survey questionnaire distributed to employees working in different MNC companies located in Bengaluru, India. The survey was designed using Google Forms to ensure ease of access and response.

**Secondary Data Collection**

Sources of information for this study include a range of credible and relevant materials. Academic journals provide scholarly insights and theoretical foundations on human resource practices and organizational behavior. HR reports from IT organizations offer real-world data and practical perspectives on employee management and workplace trends in the tech industry. Articles from business magazines contribute current industry developments and expert opinions, while previous research papers add depth through established findings and methodologies. Additionally, company websites and HR blogs serve as valuable resources for understanding organizational policies, culture, and employee engagement strategies from a first-hand view-point.

**Sampling Techniques:**

To gather meaningful insights for this study, sampling involves selecting a group of participants or organizations that best represent the wider population of interest. Common techniques include:

- Simple random sampling: Everyone in the target population has an equal chance of being selected, helping to reduce bias.
- Stratified sampling: Dividing the population into subgroups (e.g., by region, department, or job role) and then sampling from each subgroup to ensure balanced representation.
- Purposive (judgmental) sampling: Selecting specific MNCs or HR professionals who have experience with digital transformation, based on their relevance to the research topic.
- Convenience sampling: Choosing participants who are easiest to access, which can save time but may introduce bias.
- Snowball sampling: Asking initial participants to recommend others who meet the study criteria, useful when studying specialized or hard-to-reach groups.

For this research, purposive sampling is often most practical, as it helps focus on HR professionals and MNCs that are actively using or implementing HR tech, ensuring the data is directly relevant to the topic.

**Sampling size and location:**

This study will focus on multinational corporations (MNCs) with offices in Bangalore, India, which is known as a major hub for technology and global business operations. The planned sample size is around 50–60 HR professionals and managers working in these organizations. By concentrating on Bangalore, the research aims to understand how HR tech and digital transformation are being implemented in a city that blends local work culture with strong international business influence.

By choosing participants from various company sizes and industries, the goal is to capture diverse perspectives on how HR tech and digital transformation are being applied in real workplaces. The focus on multiple locations helps explore how cultural and regional differences might shape the adoption and impact of these technologies.

**Analysis and Discussion:**

The findings from this study highlight how multinational corporations (MNCs) in Bangalore are using HR technology to modernize and improve key HR functions such as recruitment, onboarding, performance management, and employee engagement. Many participants shared that tools like AI-driven recruitment systems and cloud-based HR platforms have helped streamline processes, reduce paperwork, and provide quicker access to data for decision-making. Digital learning tools were also noted as helpful in upskilling employees and keeping them engaged in a rapidly changing business environment.

However, the discussion also reveals some important challenges. HR professionals mentioned that while technology improves efficiency, it can't fully replace the need for personal interactions especially during onboarding, employee counselling, or conflict resolution. Concerns about data privacy, especially when working with employee data across global teams, remain a common issue. Another challenge highlighted was the digital skill gap among some HR staff, which can slow down adoption and limit the full use of new tools.

Overall, the analysis suggests that while HR tech is bringing significant benefits to MNCs in Bangalore, successful digital transformation depends on more than just buying the latest tools. It also requires training HR teams, keeping data security a priority, and ensuring that technology complements rather than replaces the human side of HR. The findings emphasize that a balanced approach—one that values both innovation and human connection—is key to making digital transformation truly effective in HR.

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**RESEARCH INSTRUMENT**

A structured questionnaire was designed with both closed-ended and open-ended questions. The questionnaire was divided into the following sections:

- Section A: To examine how HR tech helps global companies manage people better.
- Section B: To explore how digital tools improve hiring, training, and engagement.
- Section C: To understand challenges MNCs face in adopting new HR technologies.
- Section D: To learn how data helps HR teams make smarter decisions.
- Section E: To find ways to keep the human element while going digital.

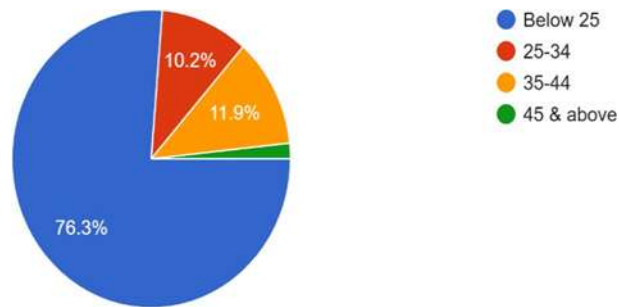


Figure No.02: Showing age response

**Interpretation:**

The age distribution shows most respondents (76.3%) are below 25, with fewer in older age groups. This suggests the findings mainly reflect younger employees' views, who are likely more comfortable and open to using HR technology.



Figure No.03: Showing gender response

**Interpretation:**

The responses came from a fairly balanced group—about half male (47.5%) and half female (52.5%). This mix helps bring both perspectives into the study on HR tech and digital transformation.

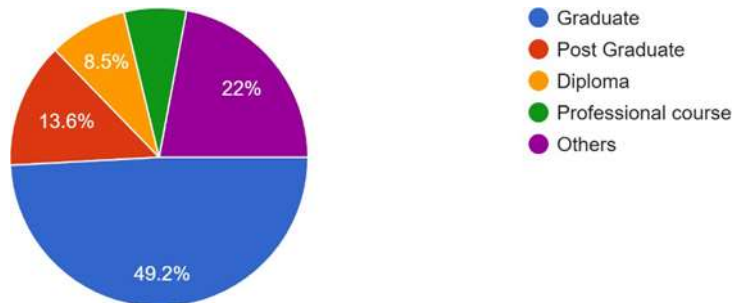


Figure No.04: Showing Education qualification Interpretation:

Most respondents are graduates (49.2%), while others include postgraduates (13.6%), diploma holders (8.5%), and those with professional courses or other qualifications (22%). This mix shows the study reflects views from people with varied educational backgrounds.

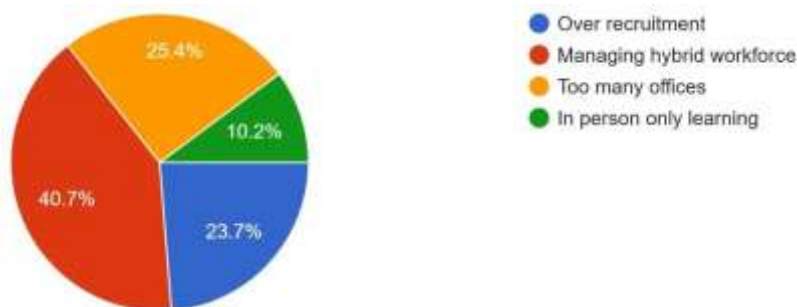
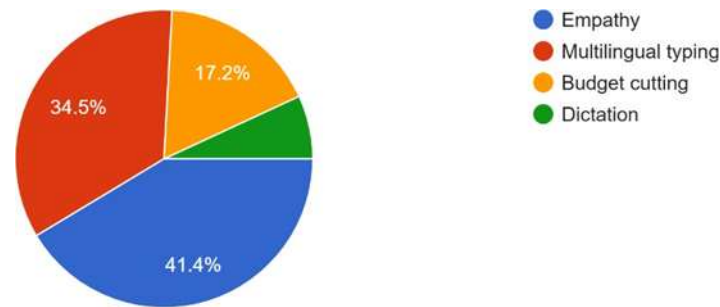


Figure No.05: Showing post pandemic challenge for digital HR

**Interpretation:**

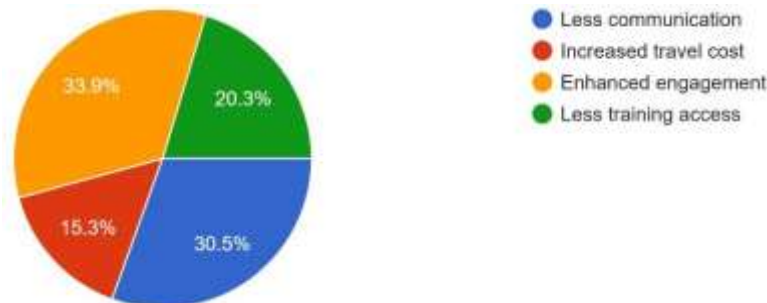
Out of 59 responses, 40.7% identified managing a hybrid workforce as the top post-pandemic challenge for digital HR. This shows a strong need for digital transformation focused on flexible work models. Other concerns included over recruitment (23.7%), too many offices (25.4%), and in-person only learning (10.2%), highlighting the shift toward smarter, tech-driven HR solutions.



**Figure No. 06: Showing human skills is crucial alongside AI tools in HR**

#### Interpretation:

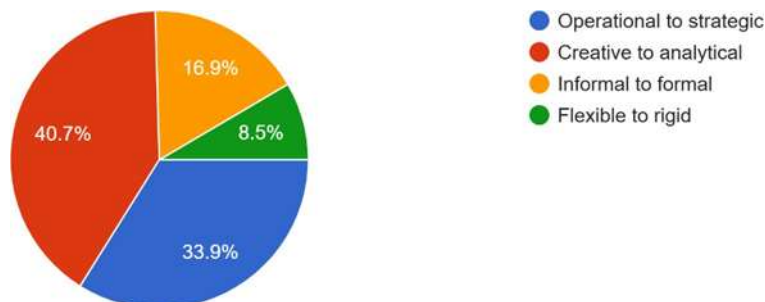
With 41.4% of responses, empathy is seen as the most crucial human skill to complement AI in HR. This shows that even in a tech-driven world, human connection still matters most when dealing with people. While AI handles data, it's empathy that builds trust and relationships.



**Figure No. 07: Showing a benefit of using immersive tech in HR**

#### Interpretation:

According to 33.9% of responses, the biggest benefit of immersive tech in HR is enhanced engagement. This shows that when tech feels more real and interactive, people connect better—making HR more impactful and human, not just digital.



**Figure No. 08: Showing digital transformation in HR requires a shift in mindset**

#### Interpretation:

Most respondents (40.7%) feel digital transformation in HR mainly needs a shift from being creative to more analytical. A good share (33.9%) think moving from operational to strategic is key, while fewer see value in becoming more formal or rigid. Overall, the focus is on using data-driven, analytical thinking to guide HR decisions.

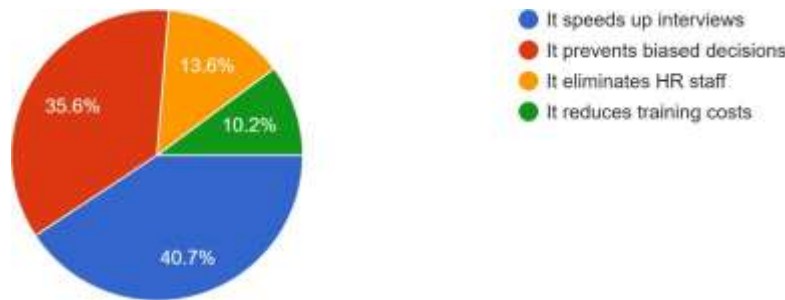


Figure No. 09: Showing ethical AI critical in the hiring process

#### Interpretation:

Most people feel ethical AI is vital because it speeds up interviews (40.7%) and helps prevent biased decisions (35.6%). Fewer see it mainly as a way to cut HR staff or training costs. Overall, the focus is on fairness and efficiency in hiring.

## CONCLUSION

This study shows that HR technology is helping multinational corporations in Bangalore transform their HR practices by making them faster, data-driven, and more employee-focused. Tools like AI-based recruitment platforms and digital learning systems are improving efficiency and supporting talent management across global teams. However, the research also highlights that while technology offers many benefits, it cannot fully replace the need for personal interactions, empathy, and human judgment in HR processes.

#### Limitations

One limitation of this research is the sample size, which focused on around 50–100 HR professionals from MNCs based only in Bangalore. This geographic focus means the findings may not fully represent HR practices in other regions or industries. Additionally, the study mainly relies on self-reported data, which may include subjective opinions or biases.

#### Implications

The findings suggest that while investing in HR tech is important, organizations should also focus on training HR teams to use these tools effectively and thoughtfully. Balancing digital tools with a human-centered approach can help companies create a more inclusive, engaging, and supportive workplace. For HR leaders, this means using technology to enhance—not replace—the personal touch that employees still value.

#### Future Recommendations

Future research could include a larger and more diverse sample across different cities and industries to gain broader insights. Studies could also look at the long-term impact of HR tech on employee satisfaction and retention. Finally, exploring how emerging technologies like AI, chatbots, and predictive analytics affect workplace culture and trust would offer valuable directions for further study.

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