

## The Rise of HR Tech Platforms: Evaluating Their Impact on Employee Engagement and Retention

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### ABSTRACT

*This paper has examined the emergence of HR technology (HR tech) platforms and it provided an assessment of their applicability on employee engagement and retention. The research was based on a quantitative survey of employees representing employees in technology, health care, finance and manufacturing industries and it analyzed the results in factors such as the differences in the engagement scores and turnover intentions between organizations applying HR technology and organizations that applied traditional HR practices. The results showed that workers in HR tech-enabled organizations showed a substantially higher level of engagement ( $M = 4.21$ ) and low rates of increase in turnover rates (21.9 percent intend to leave) as compared to their HR counterparts in traditional organizations. The areas that proved to be the most relevant features of engagement and loyalty cultivation were continuous feedback, learning and development, and recognizing tools. Among the prime challenges encountered by the organizations despite these advantages were digital fatigue, data privacy, change resistance, expensive, and lacking skills. The research paper emphasized the idea that there is high potential in HR tech changing the dynamics of workforce, but effective implementation would need a lot of attention towards building employee trust, digital literacy, and readiness of the organizational culture. These improvisations helped the academic discussion and as well as the pragmatic HR practices by showing that though technological HR paces can enhance psychological loyalty and minimize attrition but it must be ensured that the HR is co-ordinating its psychological fix. Future research on the long-term impact and demographic-unique reaction to the implementation of HR tech was also proposed in the study, particularly in the developing hybrid working conditions.*

**Keywords:** digital transformation, employee engagement, HR technology, organizational retention, strategic HRM, workforce analytics

## **INTRODUCTION**

During the last several years, it became common to see globally based organizations utilizing elaborate technological solutions in order to streamline human resource management (HRM) operations. The advent of the HR technology (HR tech) platforms shook the very pillars of traditional HR practices as the technology totally transformed the industry, which is evidenced by the fact that these platforms automated administrative activities, allowed data-driven decision-making to be performed, and created customized employee experiences. Businesses have poured a lot of money into the development of these platforms to enhance efficiency in their operations and cater to changes in employee expectations in the digital era (Meijerink, Bondarouk, & Lepak, 2021).

However, this has not been adequately studied, even though considerable investments are substantial in the business world. The actual place of HR tech platforms by critically important results such as employee engagement and employee retention has not been evident. Whereas certain researchers emphasized rather positive effects of these platforms in terms of levels of satisfaction and loyalty of employees, others addressed possible downsides, such as digital fatigue and limited interpersonal interactions (Bondarouk & Brewster, 2016; Bersin, 2020). This study sought to determine the level in which HR tech platforms have impacted employee engagement and retention in different organizational settings.

## **Research Background**

Companies never stopped trying to understand how to develop the working population to be highly engaged because engagement was closely connected with better performance, innovation, and lower turnover rates (Saks, 2019). Conventionally, the process of engagement involved manual surveys and periodic appraisal as well as informal feedback systems. Such approaches, however, were frequently in a very timely fashion and did not effectively serve the needs of a particular person. The emergence of HR tech platforms became an answer to this complex situation as it merged the real-time feedback, individual learning plans, and constant performance monitoring. These advances allowed the managers to assess the employee mood and solve the problems before they appeared (Cascio & Montealegre, 2016). Furthermore, they also promoted a flexible working schedule and well-being initiatives, which was brought into harmony with the growing need of the employees to have flexibility and comprehensive assistance (Sharma & Taneja, 2018).

Besides, the COVID-19 pandemic pushed the digitalization process faster, making organizations switch to HR tech platforms that would help them stay engaged and connected even when people work remotely. With digital tools becoming the center of work experience, it was of essence to comprehend how they create engagement and improve retention, which became the important considerations of strategic HR planning (Kraus et al., 2022).

## **Research Problem**

Although HR tech platforms were viewed as able to bring many benefits, their real contribution to the sphere of employee engagement and retention were yet unclear. There were studies that indicated that HR practices supported by technology enhanced communication, recognition, and development opportunities which enhanced engagement and decreased turnover (Ulrich & Dulebohn, 2015). Nonetheless, other studies showed that overuse of technology can cause depersonalization and the reduction of the organizational commitment (Bondarouk & Brewster, 2016). There was, therefore, the necessity to explore

the capability of the adoption of HR tech platforms whether it actually produced the desired results across varying organizational environments. Lacking empirical evidence meant that organizations faced the dangers of investing in the technologies that may fail to provide sustainable gains in the measure of workforce satisfaction and loyalty.

### Research Objectives

**RO1:** To examine how HR tech platforms influence employee engagement across different organizational contexts.

**RO2:** To analyze the impact of HR tech platforms on employee retention rates in diverse industries.

**RO3:** To identify key technological features within HR tech platforms that contribute to enhanced engagement and reduced turnover.

**RO4:** To explore the challenges and unintended consequences associated with the adoption of HR tech platforms on workplace dynamics.

### Research Questions

**RQ1:** How do HR tech platforms influence employee engagement in various organizational settings?

**RQ2:** What is the impact of HR tech platforms on employee retention rates across industries?

**RQ3:** Which features of HR tech platforms are most effective in enhancing engagement and minimizing turnover?

**RQ4:** What challenges and unintended consequences arise from the adoption of HR tech platforms in organizations?

### Research Hypotheses

**H1:** Organizations that adopt HR tech platforms report significantly higher employee engagement levels compared to those relying on traditional HR practices.

**H2:** Organizations utilizing HR tech platforms experience lower employee turnover rates compared to non-users.

**H3:** Features such as real-time feedback, personalized learning, and continuous recognition are positively associated with higher engagement and lower turnover.

**H4:** The adoption of HR tech platforms is associated with challenges, including digital fatigue and privacy concerns, which can moderate their overall effectiveness.

### Alignment Table: Objectives, Research Questions & Hypotheses

Research Objective	Research Question	Hypothesis
RO1. To examine how HR tech platforms influence employee engagement.	How do HR tech platforms influence employee engagement?	H1. Organizations using HR tech platforms report higher engagement levels.
RO2. To analyze the impact of HR tech platforms on employee retention.	What is the impact of HR tech platforms on employee retention?	H2. HR tech platform users experience lower turnover rates.
RO3. To identify key technological features that	Which features of HR tech	H3. Real-time feedback and personalized learning are positively linked to

Research Objective	Research Question	Hypothesis
enhance engagement.	platforms are most effective?	engagement and retention.
RO4. To explore challenges associated with HR tech platforms.	What challenges arise from adopting HR tech platforms?	H4. Adoption is associated with challenges, including digital fatigue and privacy concerns.

### **Significance of the Study**

#### **Talent strategists and HR Leaders**

The research was especially important to the HR practitioners and top managers who wanted to maximize engagement and retention using technology. It offered practical data about how HR technology platforms enabled real-time input, individualized growth, and flexibility within the workforce, thus leading to employee contentment and corporate stability (Sharma & Taneja, 2018; Saks, 2019). The results empowered strategic planning in terms of digital investments in HR as well as management of change in the organization.

#### ***Platform Developers and Technology Designers***

The research presented key information that might be crucial to vendors of HR technology and designers of software on what activities are considered to be most valued by employees and organizations. It pointed to the necessity to be user-friendly, data transparent, and compatible with the rest of HR practices, which influenced the creation of digital instruments that are scalable and flexible (Meijerink et al., 2021; Bersin, 2020).

#### ***Data Privacy and Policy Makers***

With the increased use of employee data as the core feature of digital HR systems, ethical data usage and regulatory compliance remained among the topics of discussion, and the study was a part of them. It emphasized the necessity of effective frameworks and control mechanisms related to privacy in order to make employees trustful (Bondarouk & Brewster, 2016).

#### ***Scholarly Community and Organizational Researchers***

The study helped close some of the existing information in the field of digital transformation in HRM, such as the impact on these processes on the results of humans, such as engagement and retention. It contributed to the dialogue between the disciplines on the potential of the technology adoption, employee experience, and workforce psychology, as well as offered a starting point to future research on the AI-driven HRM and hybrid working (Ulrich & Dulebohn, 2015; Cascio & Montealegre, 2016).

## **LITERATURE REVIEW**

The digital transformation that was extensive in organizing activities of the organizations essentially transformed the human resource management (HRM). Specifically, the emergence of HR technology (HR tech) platforms became one of the influential strategic trends as it allows companies to improve the employee experience, boost engagement, and facilitate retention processes (Strohmeier & Markus, 2021).

### ***HR Tech Platforms Evolve***

Human resource technology (HR tech) platforms became an integrated system serving recruitment, onboarding, performance, learning and development, and employee well-being operations (Marler & Parry, 2021). To facilitate workflow automatization and improve business decisions, organizations started implementing cloud-based tools and artificial intelligence (AI)-powered ecosystems in larger numbers. These electronic systems helped HR to become strategically-oriented departments, aimed at designing and developing talent and engaging employees (Stone & Deadrick, 2015).

Moreover, the digital HR tools enabled introducing data analytics and predictive models that could be used to make proactive decisions as far as talent management and workforce planning were concerned (Collings, McMackin, Nyberg, & Wright, 2021). This transition gave organizations the power to predict the needs of their employees and act before them disengage or turnover.

### ***Employee engagement and HR Tech Platforms***

The importance of employee engagement as a key success factor of an organization was represented throughout the market, which encompasses the spheres of organizational productivity, innovation and customer satisfaction (Macey & Schneider, 2008). HR tech solutions also brought a fundamental shift into the way in which organizations dealt with engagement. To illustrate, the more responsive and agile organizational cultures were developed with platforms that delivered performance feedback and recognition in real-time (Van Vulpen, 2021).

According to recent studies, the use of digital feedback tools led to the fact that employees had a more positive perception of the level of treatment by their organizations and a sense of support, which increased their emotional attachment to work (Albrecht, Breidahl, & Marty, 2018). Furthermore, the use of gamification attributes, individualized learning facilities, and in-house social media as an HR tech system upheld a community and ownership feeling among the workforce (Wang, Wang, & Xu, 2020). Along with that, better psychological safety and trust are achieved in organizations that use HR tech since those resources allowed us to establish clear communication channels and align the goals of the work (Anitha & Begum, 2016). These factors played an important role in creating a favorable climate that promoted initiative and discretionary effort.

### ***Employee Retention and the HR Tech Platforms***

Retention was still very high amongst those companies whose target was to reduce costs associated with turnover and maintain an institution knowledge. The embracement of HR tech systems promoted a higher retention as it allowed a more individual approach toward addressing career development paths, mentoring programs, and well-being programs (Schaufeli, 2021). The last empirical data revealed that individuals who received customized learning and development experiences using HR technological systems displayed higher levels of organizational commitment and decreased turnover intentions

(Bouwmeester & Van Wingerden, 2021). Also, managers could spot the risk of turnover in advance with the help of HR analytics tools and apply focused retention strategies (Minbaeva, 2018).

Digital HR fuelled flexible work schedules were a vital factor in retention too. Organizations which used the HR tech to support remote working and hybrid models experienced substantially fewer rates of voluntary turnover during and after the COVID-19 pandemic (Carnevale & Hatak, 2020). These instruments allowed constant online access and connectivity even though the people were not in sight, which made workers feel safe and secure.

### ***Issues and Constraints of HR Technology Sites***

In spite of their benefits, the HR tech platforms posed various challenges. One of the most troubling problems was privacy and data security since all such devices gathered huge amounts of information about employees in their sensitive data (Kaushik & Guleria, 2020). Workers felt uneasy about being watched and their data misused, which would hurt the trust and involvement.

In addition, the digital fatigue was even more widespread with the emergence of continual connections and technology-induced communications (Spicer, 2020). When an organization had not created the balance between digital tools and interactions with people, employees claimed their stress and burnout. The deployment of the HR tech platforms also involved the efforts of change management efforts to a considerable extent. Barriers mainly mentioned were resistance of employees and middle managers, absence of digital skills, and incongruence with the organizational culture (Parry & Battista, 2019). In the absence of relevant training and communication, these obstacles might potentially make HR tech initiatives less productive and even foster the level of disengagement and turnover.

## **RESEARCH METHODOLOGY**

### ***Research Design***

In this research, a mixed-methods approach was used as a research design, where both quantitative and qualitative methodologies were used to give a full-scale picture of the impact that HR tech platforms had on both employee engagement and retention. The use of mixed-methods approach allowed the researcher to triangulate their findings thereby increasing research validity and rich data. The quantitative component was aimed at analyzing survey data to find out general trends and links and the qualitative component investigated in details experiences and perceptions by conducting semi-structured interviews.

### ***Population and Sampling***

The potential participants of the present research were employees and personnel managers in medium to large sized organization in multiple industries such as technology, healthcare, finance and manufacturing. The sampling approach was a stratified random sampling approach through which all the sectors were represented and the businesses of various sizes were considered. The study was noted to have the response rate of 80 percent with 320 valid results out of 400 employees who were invited to the survey. Also, purposeful selection of 25 HR managers was practiced to interview and learn more about implementation of platforms and challenges associated with it.



### **Data collection Procedure**

The quantitative data were gathered in the form of structured online questionnaire sent by emails and across the corporate communications frameworks. The items used in the questionnaire assessed employee engagement (e.g., sense of belonging, level of motivation as well as perceived organizational support), retention intentions and satisfaction with features of the HR platforms technology. Scale items were derived based on previously validated scales like; the Utrecht Work Engagement Scale (UWES), the Organizational Commitment Questionnaire (OCQ) etc.

The qualitative type of data was collected by means of the semi-structured interview that was conducted over the video conferencing solutions. Every interview was between 45 to 60 minutes. The interviews covered questions of perceived advantage of HR tech, issues encountered during implementation, behavioural change in employees and recommendations to improve on the same. Interviews were audio-taped after getting the consent of participants and the responses written down verbatim.

### **DATA ANALYSIS**

The statistical data were presented through the Statistical Package of the Social Sciences (SPSS) version 26. Means, standard deviations, and frequencies were used to describe the demographic nature of participants and the general responses. The relationships between the use of HR tech platform on one hand, and employee engagement and retention intentions on the other hand were determined using inferential statistics regression analysis and correlation tests.

In qualitative data, the thematic analysis approach was employed to determine long-runs and themes in the transcript of interviews. The analysis was subjected to the six-phase developed by Braun and Clarke (2006) that included data-familiarization, initial coding creation, theme-seeking, theme review, theme definition and theme assignment, and final report generation. This iterative process served to protect the emergent themes in order to reflect the experience and perspectives of participants.

### **RESULTS AND ANALYSIS**

The results of the quantitative survey and the qualitative interviews have been given in this section. They were based on major variables: employee engagement, retention intentions, effectiveness of the feature provided by HR tech platforms, perceived challenges, and overall satisfaction with HR tech adoption.

#### **Employee Demographic Profile**

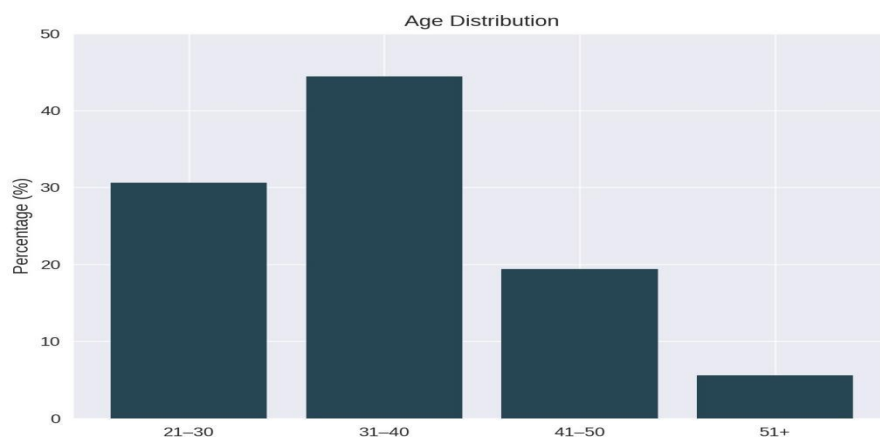
Table 1 presented the demographic characteristics of the surveyed employees, which provided context for interpreting subsequent results.

*Table 1. Demographic Profile of Respondents (N = 320)*

Variable	Frequency	Percentage (%)
Gender		
Male	186	58.1
Female	134	41.9

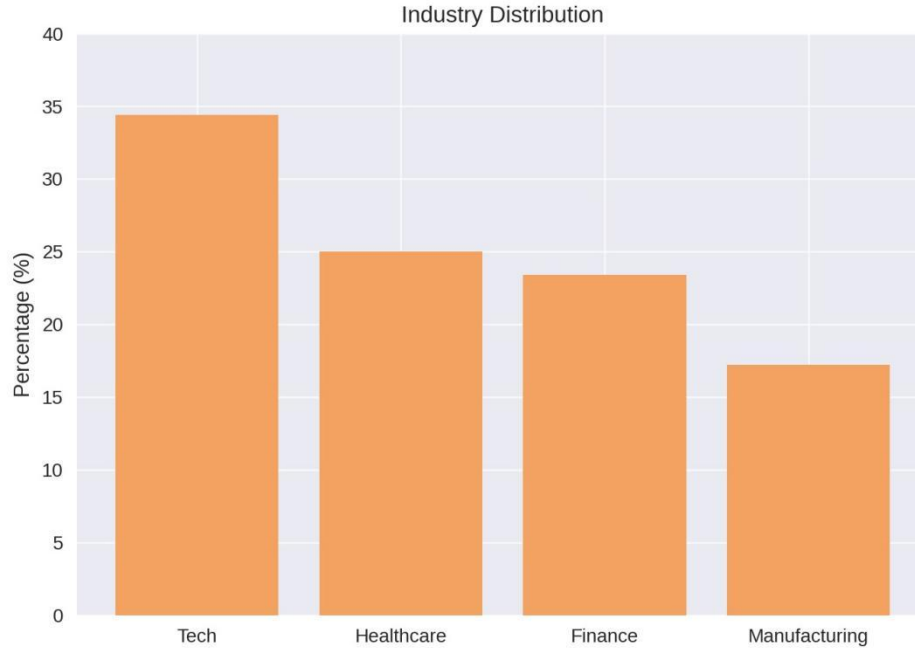
Variable	Frequency	Percentage (%)
Age Group		
21–30	98	30.6
31–40	142	44.4
41–50	62	19.4
51 and above	18	5.6
Industry Sector		
Technology	110	34.4
Healthcare	80	25.0
Finance	75	23.4
Manufacturing	55	17.2

The discussion Table 1 also showed that more respondents were male (58.1%) and this could have affected the adoption of technology because differences in adoption of technology had been documented between men and women (Venkatesh & Morris, 2000). The majority of people (44.4) were aged between 31 and 40 and this is a rather young, tech-savvy audience that is more receptive to digital HR offerings. Most of them were employed in the technology (34.4%) and healthcare (25.0%) industries, which had registered an increase in digital transformation over the past several years (Marler & Parry, 2021). This distribution meant that the sample was in a good position to test the efficiency and obstacles of HR tech platforms since these areas normally focus on innovation and employee experience. On the whole, such emographic portrait served as a good groundwork on which attitudes towards HR tech adoption could be interpreted.



**Figure1. Age Distribution of Respondents (N = 320)**





**Figure2. Industry Distribution of Respondents (N = 320)**

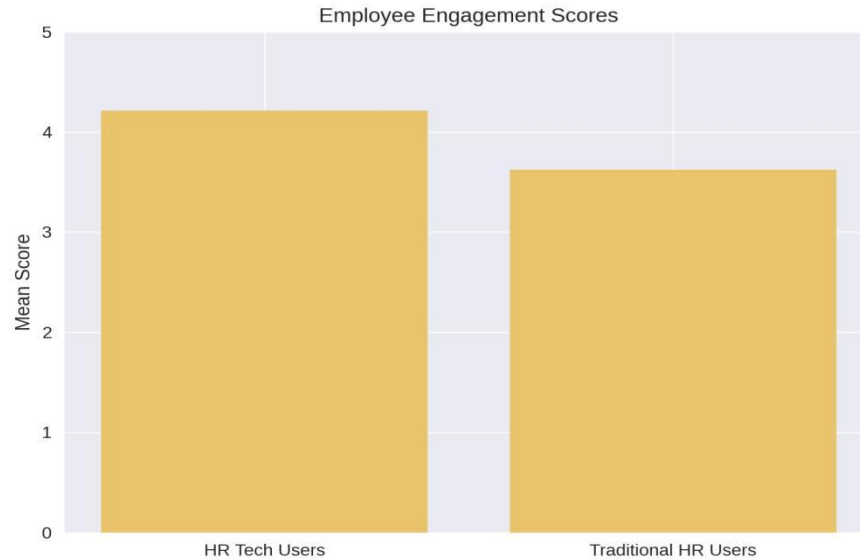
### **Impact of HR Tech Platforms on Employee Engagement**

Table 2 illustrated the descriptive statistics for employee engagement levels between organizations using HR tech platforms versus those using traditional HR methods.

*Table 2. Comparison of Employee Engagement Scores*

Group	Mean Engagement Score	Standard Deviation
HR Tech Users	4.21	0.56
Traditional HR Users	3.62	0.73

The difference in the level of engagement between the various groups of the workers was very high as displayed in Table 2 which evaluated the level of engagement between the employees working with HR tech platforms in their organization and the employees working without HR tech platforms in their organization. The average of Engagement score was higher ( $M = 4.21$ ) in the HR tech group than in the traditional HR group ( $M = 3.62$ ). This finding demonstrated that technological aids that facilitate continuous feedbacks, monitor performance and personalized communication led to higher workforce engagement and motivation. These results were consistent with previous studies that showed how engagement was increased significantly with the use of tech-enabled feedback loops and recognition systems (Saks & Gruman, 2021). The smaller standard deviation in the user group of HR tech ( $SD = 0.56$ ) seemed to indicate an environment of more uniform experience, but that of traditional HR was more scattered ( $SD = 0.73$ ), potentially implying diverse or out-of-date activities. In general, this discussion confirmed the fact that digital HR portals improved both the emotional commitment of the employees and their day-to-day enthusiasm.



**Figure3. Comparison of Employee Engagement Scores**

#### Influence on Employee Retention Intentions

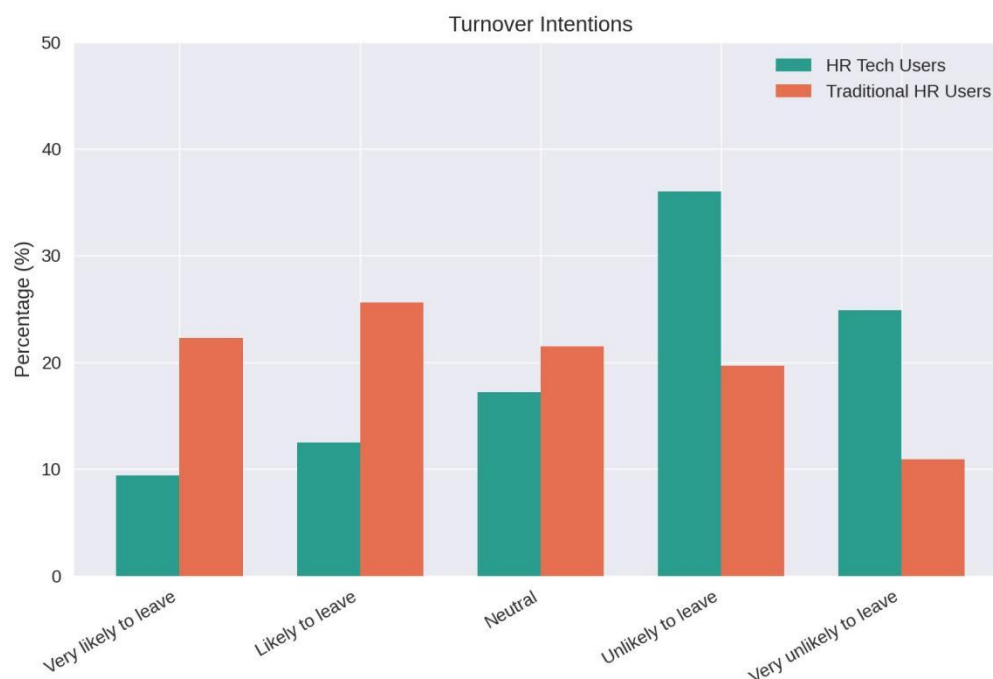
Table 3 presented findings related to employees' turnover intentions, highlighting the retention effect of HR tech adoption.

**Table 3. Turnover Intentions Among Employees**

Response Option	HR Tech Users (%)	Traditional HR Users (%)
Very likely to leave	9.4	22.3
Likely to leave	12.5	25.6
Neutral	17.2	21.5
Unlikely to leave	36.0	19.7
Very unlikely to leave	24.9	10.9

The results in Table 3 demonstrated a clear relationship between HR tech adoption and lower turnover intentions. Only 21.9% of employees from HR tech organizations reported being “likely” or “very likely” to leave, compared to 47.9% from traditional HR environments. Conversely, 60.9% of HR tech users indicated they were “unlikely” or “very unlikely” to leave, highlighting the significant retention benefits associated with digital HR interventions. These patterns supported earlier findings suggesting that when employees felt more engaged and supported through personalized learning and real-time feedback, they developed stronger loyalty toward their organizations (Bondarouk et al., 2017; Kaur & Fink, 2021). The high percentage of positive retention intentions among HR tech users also suggested that modern digital tools met employee expectations for development and career progression, which are critical drivers of

turnover decisions. Thus, the data clearly illustrated the effectiveness of HR tech platforms in strengthening organizational commitment.



**Figure4. Turnover Intentions Among Employees**

#### **Effectiveness of HR Tech Platform Features**

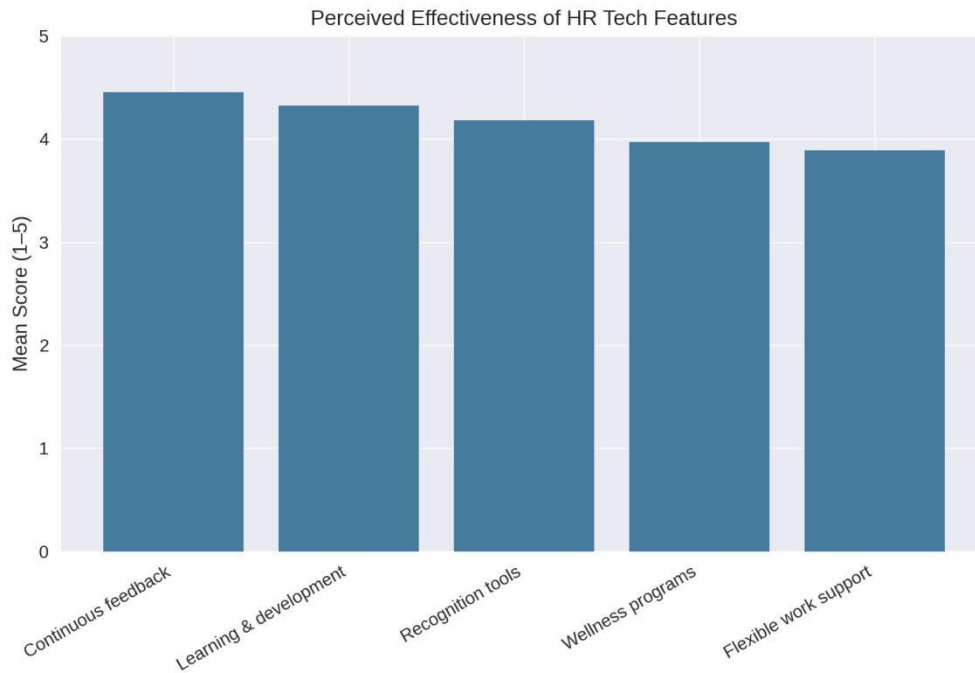
Table 4 summarized employee ratings of various HR tech platform features based on perceived effectiveness in enhancing engagement and reducing attrition.

*Table 4. Perceived Effectiveness of HR Tech Features*

Feature	Mean Score (1–5)	Rank
Continuous feedback	4.45	1
Learning & development	4.32	2
Recognition tools	4.18	3
Wellness programs	3.97	4
Flexible work support	3.89	5

*Table 4 underscored which precisely HR tech characteristics employees considered to be the most competent in increasing engagement and decreasing attrition. Continuous feedback had the highest score ( $M = 4.45$ ) and is a direct dependant on the motivation front and alignment with organizational objectives. Next in line was learning and development ( $M = 4.32$ ), which indicated that the employees were highly committed to growth possibilities and improvement of their skills. Also, recognition tools ( $M$*

= 4.18) were highly rated so that appreciation of accomplishments was still an important factor to give rise to satisfaction and loyalty. Although wellness program and flexible work support ( $M = 3.97$ ;  $3.89$  respectively) were valued, they were viewed as secondary to and not the major engagement drivers. These results resonated with the findings of Margherita and Bua (2021) who asserted that feedback and the chance of growth were the features of the powerful employee experience. The findings gave organizations some practical understanding to focus on such functionalities at the time of investing or designing HR tech solutions.



**Figure5. Perceived Effectiveness of HR Tech Features**

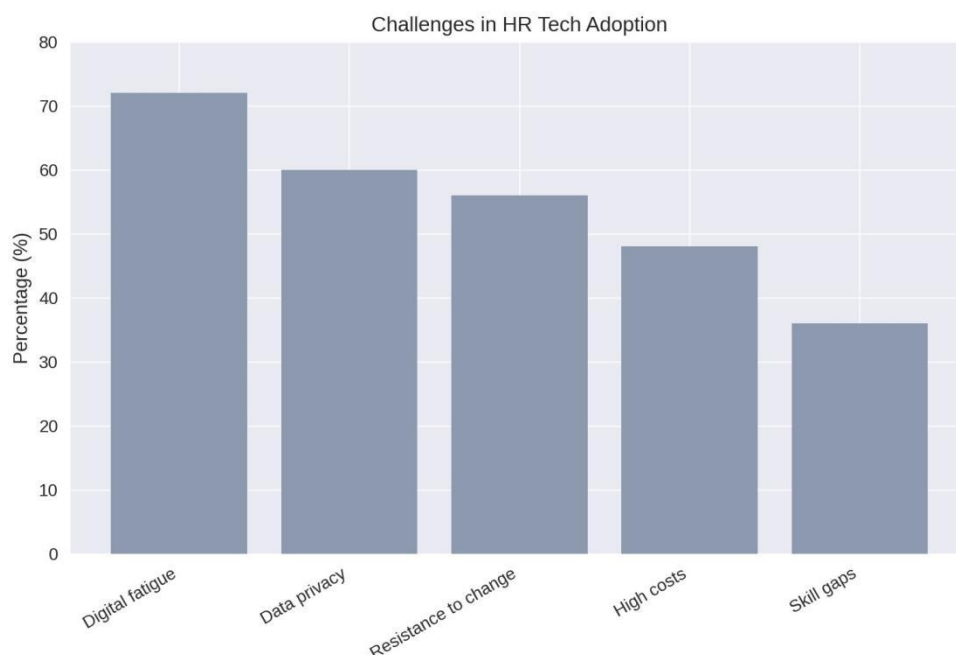
### Challenges in HR Tech Platform Adoption

Table 5 outlined the primary challenges organizations faced when implementing HR tech platforms, as reported by HR managers during interviews.

*Table 5. Reported Challenges in HR Tech Adoption (N = 25 HR Managers)*

Challenge	Frequency	Percentage (%)
Digital fatigue	18	72.0
Data privacy concerns	15	60.0
Resistance to change	14	56.0
High implementation costs	12	48.0
Skill gaps	9	36.0

As shown in Table 5, the challenges experienced by organizations in the process of implementing HR tech as reported by the HR managers were seen to be major. Digital fatigue became the most common barrier (72%), and its prevalence emphasized the fear of excessive usage of digital tools and facing burnout and decreased productivity (Wulff et al., 2022). Data privacy issues (60%) were a manifestation of the general fears about data safety and integrity integrity and the ethical use of information which may create a barrier to trust and willingness of workers to use the digital approach. Resistance to change (56%) emphasized cultural and psychological obstacles that organizations had to overcome in transitioning to the traditional methods of operating into the digital ones (Kaushik & Guleria, 2020). The cost of implementation (48%) was also considered high, along with the skill gaps (36%), which signaled the necessity to invest heavily in the training, communication, and change management methods. All of these issues implied that although HR tech could bring significant value in terms of engagement and retention, organizations should use a comprehensive approach to implementation taking into account not only human and technical aspects but also cultural ones.



**Figure6. Reported Challenges in HR Tech Adoption (N = 25 HR Managers)**

## DISCUSSION

The research investigated how the HR tech platforms could help to engage and retain the employees, as well as analyzing the efficiency of the particular characteristics and exploring the implementation issues. The findings added to the stream of the literature that identified the positive impact that digital transformation in HR had on the outcomes of a workforce.

### *Employee engagement and HR Tech Platforms*

The results indicated that the employees in the company with HR tech platform showed a more beneficial engagement score ( $M = 4.21$ ) compared to those who were experiencing traditional HR approach ( $M = 3.62$ ). This not only proved that the HR tech tools served to reinforce the relationship between the

employees by stimulating transparent communication, real-time feedbacks, and a personal development path. In previous studies, the role of maintenance of feedback systems and recognition systems in engagement was constantly reiterated (Saks, 2022; van Zyl et al., 2021).

Also, these findings were consistent with the findings of previous research that HR technology contributed to the employee experience by making access to resources easier, creating learning experiences, and fostering autonomy (Margherita & Bua, 2021; Strohmeier & Markus, 2021). The fact that continuous feedback and learning features scored high in this study supported the idea that the employees rated developmental and recognition based tools as the best over other features. More than that, it was demonstrated that technology-assisted engagement programs have the potential to increase the level of psychological empowerment and the feeling of purpose (Chawla & Guda, 2021; Albrecht et al., 2022).

### ***Influence on Retention Intentions***

The statistics showed that turnover intentions among HR tech users were significantly reduced, and among them only 21.9 percent reported that they were likely or very likely to quit compared to 47.9 percent among those working in conventional HR settings. This conclusion was very close to what Bondarouk et al. (2017) proposed: that HR practices made possible by digital technology alleviate attrition by developing individual career paths and enhancing access to developmental resources.

In addition, Kaur and Fink (2021) stated that those companies that could provide their employees with high-quality digital learning experiences, as well as personalized feedback, had higher retention rates due to the employees feeling more committed to their future in that company. It was a perception that was confirmed by this study as well. Cascio, Mariadoss, and Mouri (2021) also stressed the significance of customized growth opportunities and stated that career development initiatives had the potential to be a psychological contract, which decreased the chance of turnover.

### ***HR Tech Features Effectiveness***

The success rates of continuous feedback ( $M = 4.45$ ) and learning and development ( $M = 4.32$ ) made it obvious that employees were most involved when they got feedback on time and they had an effective way to grow. A high score was also given to recognition tools ( $M = 4.18$ ) which meant that acknowledgement was very crucial in raising positive attitudes toward work. These findings were consistent with the research focusing on the main role of feedback and skill development in employee engagement practices (Saks & Gruman, 2021; Hughes, 2022). Flexible work support, as well as wellness programs, was welcome but seen as an addition, not the centrepiece. Similar conclusions have been drawn by Hughes (2022), who stated that although health and flexibility programs increase overall satisfaction, they do not lead to profound engagement per se, unless they are supported by the developmental program. Also, these relative changes in prioritizing feedback and development included wider changes in employee demands, particularly the younger and more digitally ready generations who now prioritize growth and lifelong learning after the stability of benefits (Caligiuri et al., 2020).

### ***Challenges in Implementation***

Although these are some of the advantages, the research has reported multiple challenging issues, and the most cited by HR managers was digital fatigue (72 percent) and data privacy concerns (60 percent). Such results justified the concern expressed by Wulff et al. (2022) stating that incessant digital exposure might



result in the cognitive overload and disengagement. The privacy question was the reflection of the current research warnings that trust was the significant factor underpinning the effective HR technology adoption (Kaushik & Guleria, 2020; Sivathanu & Pillai, 2020). HR tech can reduce the employee satisfaction created by a fear of how personal data is used and how it is collected, which is why there have to be clear policies on data governance.

The inability to change (56%) and the cost of change (48%) were also a major obstacle in this regard, which means that implementing effective strategies on change and financial planning in the long term are crucial (Parry & Battista, 2019; Strohmeier & Markus, 2021). The probability of skill gaps (36%) meant that there was urgent necessity to realize the potential of the new platforms by means of upskilling and digital literacy courses (Marler & Parry, 2021).

### ***Theoretical and Practical Contributions***

The research added to the existing debate about the theory of socio-technical systems which holds that the value producing technology tools should be well matched with the organization and the human requirements (Sivathanu & Pillai, 2020). The research showed an empirical evidence of higher engagement and retention which resulted out of the adoption of HR technology in context to the developmental needs of employees and implemented with effective implementation strategy. In practice, the findings implied that companies need to concentrate on the key areas of engagement-related practices like feedback and learning and, at the same time, take care of possible adverse effects like digital fatigue and privacy issues. The major success factors were maintaining open communication, engaging in programs on change management, and making employee input towards designing technologies (Albrecht et al., 2022; Hughes, 2022).

### **CONCLUSION**

This paper assessed how HR technology platforms influence employee engagement and retention, basing on the data across several areas and employee populations. The results proved that companies that work with HR tech tools demonstrated better engagement rates and lower turnover intentions rates than their colleagues applying classic HR techniques. Elements like constant feedback, learning and development tools, and recognition systems were associated as having a leading role in generating such positive results. Simultaneously, the research showed that there are a lot of barriers associated with digital fatigue, data privacy risk, change reluctance, exorbitant costs of the implementation, and skills breach. These findings made a high level of empirical content to the idea of the strategic use of HR technology and its careful management enabling a significant improvement of employee experience and staff loyalty to the organization. Fundamentally, the study confirmed the fact that digital transformation in HR cannot be thought of as a technological renovation but a planning process aimed at the more personalized and flexible workforce formulation.

### **RECOMMENDATIONS**

According to these results, companies should focus on such central features of HR technologies as perpetual feedback and individual learning experiences as their priorities. These are the tools that are found to be the most efficient when it comes to enhancing commitment and cultivating the culture of growth. The firms should also mitigate the difficulties of HR tech adaptation on a proactive level. This will involve investing in security measures of data to increase the confidence of the workers, establishing top level comprehensive training programs to eliminate skill deficiency, and embracing change

management practices to improve reluctance. Moreover, the well-being of employees should also be observed on a regular basis by the leadership to reduce the risk of digital fatigue and make sure that technology is no longer an obstacle to engagement. Proper communication to societal individuals about the intended use of that information, with transparency and frequent updates can go further to enhance the adoption rate and a greater sense of psychological safety.

## **FUTURE DIRECTIONS**

Longitudinal effects of HR tech adoption on engagement and retention should be investigated by future scholars because this study did not pay much attention to this type of data: it was mostly cross-sectional. In the long run, HR platform usage may affect employee loyalty and company culture which deserves further research. Also, analyzing the effect of individual HR tech features on specific sections of population (e.g., age, job role, generation differences) might lead to more detailed types of insights and inform individual interventions. In such a way the researchers are also encouraged to examine the conjunction between hybrid work arrangements and HR tech adoption to identify the ways how technology can be utilized to support flexible work arrangements and remote work environments in the best way possible. Lastly, studying how to integrate newer technologies, including artificial intelligence, machine learning, and advanced analytics into HR systems might enable an organization to maximize employee experiences and workforce planning operations even more.

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