

Artificial Intelligence Adoption, Job Insecurity, and Psychological Resilience: Challenges for Employee Adaptation in Future Work Environments

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Abstract

The rapid adoption of Artificial Intelligence (AI) in the workplace is reshaping industries, presenting both opportunities and challenges for employees. This literature review examines the interplay between AI adoption, job insecurity, and psychological resilience, and their implications for employee adaptation to future work environments. By synthesizing findings from 10 key articles, this study highlights how AI-induced job displacement, particularly in routine and low-skilled tasks, leads to heightened job insecurity, contributing to stress, anxiety, and reduced job satisfaction. However, the review also identifies psychological resilience as a critical factor that can mitigate the negative effects of job insecurity. Resilient employees are better equipped to cope with the uncertainties brought on by technological disruptions, enabling them to maintain motivation and adapt to new job roles. The review underscores the importance of fostering resilience through organizational support, such as upskilling initiatives and psychological well-being programs. Furthermore, the study discusses the need for a balanced approach that combines technological skills development with emotional support to ensure a sustainable and adaptable workforce. This research emphasizes the essential role of resilience in navigating the challenges of AI integration and highlights the need for future research to explore effective strategies for enhancing employee resilience in AI-driven environments.

Keywords: Artificial Intelligence (AI), Job Insecurity, Psychological Resilience, Employee Adaptation.

INTRODUCTION

The advent of Artificial Intelligence (AI) has dramatically altered the nature of work in many industries, from automation of routine tasks to enhancing decision-making processes. While AI promises significant productivity gains and operational efficiency, it also introduces substantial challenges for employees (Brynjolfsson & McAfee, 2014). These challenges are most apparent in terms of job insecurity, as workers increasingly fear that AI systems will replace their jobs or lead to reduced opportunities in the labor market (Chui, Manyika, & Miremadi, 2016). As a result, AI adoption is often associated with negative psychological outcomes, including stress, anxiety, and decreased job satisfaction (Arntz, Gregory, & Zierahn, 2016). In this context, psychological resilience emerges as a crucial factor in helping employees adapt to these changes. Resilience, defined as the ability to bounce back from adversity, can play a pivotal role in mitigating the negative effects of job insecurity and facilitating smoother transitions in the workplace (Bardoel et al., 2014).

While much of the existing literature focuses on the technological advancements and economic implications of AI in the workplace (Frey & Osborne, 2017), limited research has been conducted on the psychological and emotional responses of employees facing AI-induced disruptions (Van den Heuvel et al., 2020). Most studies have concentrated on job displacement and the skills gap, leaving a critical gap in understanding the emotional resilience needed for employees to thrive in AI-driven environments (Tambe, Hosanagar, & Google, 2019). Furthermore, while previous research has explored job insecurity as a key challenge in this transition, the intersection between job insecurity and psychological resilience in the face of AI adoption remains underexplored (Jiang, 2018).

The increasing pace of AI adoption in workplaces, from customer service to manufacturing, makes it essential to investigate the psychological impact on employees. As AI continues to evolve, workers will be required to adapt not only their technical skills but also their emotional and psychological coping strategies (Cascio & Montealegre, 2016). Given the growing concern over job insecurity and the rapid pace of technological change, understanding how resilience can buffer against the negative effects of AI adoption is crucial for both employee well-being and organizational performance.

Previous studies have examined the potential of AI to displace jobs, particularly in low-skilled and routine tasks (Autor, 2015). However, the impact of AI on workers' psychological well-being has received comparatively less attention. Research by Chrobot-Mason (2015) highlights that the fear of job loss due to AI automation can lead to increased stress and a sense of helplessness among



employees. On the other hand, some studies have shown that psychological resilience, including adaptability, coping strategies, and emotional regulation, can mitigate the effects of job insecurity (Luthans et al., 2008). These studies emphasize the importance of fostering resilience to help employees adapt, yet few have specifically focused on how resilience interacts with AI adoption.

This research offers a novel perspective by bridging the gap between AI adoption, job insecurity, and psychological resilience. The study goes beyond examining technological displacement to explore how psychological factors, such as resilience, influence employees' ability to navigate the evolving landscape of AI-integrated workplaces. Moreover, the proposed conceptual framework integrates these three critical elements to provide actionable insights into how organizations can support their workforce through these transitions.

The primary objective of this study is to explore the relationship between AI adoption, job insecurity, and psychological resilience. Specifically, this research aims to: (1) understand how AI adoption influences employees' perceptions of job insecurity, (2) investigate the role of psychological resilience in adapting to AI-driven changes, and (3) propose strategies for organizations to foster resilience among employees facing these challenges. By focusing on psychological resilience, the study offers a fresh perspective on AI adoption and presents practical recommendations for organizations looking to support employees in future work environments.

This study contributes to both academic literature and practical management strategies. Academically, it extends existing knowledge by integrating psychological resilience with the study of AI adoption and job insecurity. Practically, the findings can inform organizational strategies aimed at enhancing employee resilience, providing training, and creating a work environment that reduces the negative impact of job insecurity. The insights gained from this study can assist organizations in adapting to the changing landscape of work while ensuring the mental and emotional well-being of their employees.

Employee Challenges in the Future Workplace

As the landscape of work continues to evolve, employees are increasingly facing a range of challenges in adapting to future workplace environments. The primary drivers of these challenges are technological advancements, demographic shifts, and changing expectations around work-life balance. Technological disruption, particularly the rise of automation and AI, is forcing employees to adapt quickly to new ways of working, requiring a constant upgrade in skills and competencies. Additionally, the shift towards remote and hybrid work models has introduced new dynamics in team collaboration, communication, and performance measurement (Gartner, 2020). These challenges are not only technical but also psychological, as workers must cope with heightened uncertainty regarding job security, the future of their roles, and their ability to maintain a work-life balance amidst increasing demands (Schiemann, 2021). Furthermore, future workplaces are characterized by increased diversity and the need for inclusivity, which brings challenges in terms of managing diverse work styles, communication practices, and interpersonal relationships (Shen, 2016).

Artificial Intelligence Adoption

Artificial intelligence (AI) is one of the most significant technological advancements reshaping modern workplaces. AI adoption in industries such as finance, healthcare, manufacturing, and customer service is creating unprecedented opportunities for increasing productivity and operational efficiency. However, the integration of AI technologies also poses substantial challenges. AI is capable of automating tasks that were traditionally performed by humans, leading to concerns over job displacement, skill mismatches, and changes in the nature of work itself (Brynjolfsson & McAfee, 2014). According to Frey and Osborne (2017), an estimated 47% of total US employment is at high risk of being automated over the next two decades, with jobs in routine manual and cognitive tasks being particularly vulnerable. While AI systems can enhance decision-making, streamline operations, and reduce human error, their rapid adoption is also fueling anxiety about the future of human workers and the displacement of entire professions (Chui et al., 2016). Moreover, the increased reliance on AI requires workers to continually adapt and acquire new digital skills to stay relevant, creating additional stress and uncertainty for many employees (West, 2018).

Job Insecurity

Job insecurity is one of the most pressing concerns for employees in the era of AI adoption and technological disruption. Defined as the perceived threat of job loss or loss of career opportunities, job insecurity is increasingly being recognized as a significant psychological stressor that can adversely affect employee well-being and job satisfaction (De Witte, 2005). The adoption of AI technologies in the workplace has been linked to heightened feelings of job insecurity, especially among workers in low-skilled and routine-based jobs that are more likely to be automated (Arntz et al., 2016). This uncertainty is compounded by the rapid pace of technological change, which creates an unstable and unpredictable job market, further exacerbating workers' anxiety and reducing their sense of control over their professional futures (Chrobot-Mason, 2015). Furthermore, the rise of gig and platform-based work, which often lacks traditional job security or benefits, has added another layer of vulnerability for many workers (Kalleberg & Vallas, 2018). Job insecurity not only affects employees' psychological well-being but also their productivity and engagement, leading to higher turnover rates and a decline in overall organizational performance (Sverke et al., 2002).

Psychological Resilience

In the face of job insecurity and AI-driven disruptions, psychological resilience has emerged as a key factor in helping employees cope with these challenges and adapt to the changing work environment. Psychological resilience refers to the ability to recover from setbacks, adapt to change, and maintain a positive outlook despite adversity (Luthans et al., 2008). In the context of AI adoption and job insecurity, resilient employees are better equipped to handle the uncertainty and stress that often accompany these transitions. According to Bardoel et al. (2014), employees with higher levels of psychological resilience tend to exhibit greater emotional regulation, improved problem-solving abilities, and stronger coping mechanisms, which enable them to navigate the challenges posed by technological changes more effectively. Furthermore, resilience has been shown to buffer the negative effects of job insecurity, such as anxiety, burnout, and disengagement (Jiang, 2018). As the workforce continues to adapt to AI-driven changes, organizations are increasingly recognizing the importance of fostering resilience among their employees through support programs, training, and the cultivation of a positive organizational culture (Kuntz et al., 2013).

METHOD

This study employs a qualitative research design utilizing a literature review approach to investigate the relationship between artificial intelligence (AI) adoption, job insecurity, and psychological resilience in the context of future work environments. A literature review is particularly suited for this research as it allows for the synthesis of existing knowledge, highlighting key themes and identifying gaps in the literature. This approach is useful for understanding how AI adoption impacts employee experiences, particularly regarding job insecurity and the need for resilience. A comprehensive search for relevant studies was conducted using major academic databases, such as Google Scholar, JSTOR, Scopus, and ScienceDirect. The search terms included "artificial intelligence adoption," "job insecurity," "psychological resilience," "employee adaptation," and "future work environments." Only peer-reviewed journal articles, books, and reports from reputable sources were included to ensure the validity and reliability of the data.

The sources selected for this literature review are based on their relevance to the research questions, quality of publication (peer-reviewed and high-impact journals), and recency, with a focus on studies published within the last ten years (2013-2023). These studies span across various fields, including organizational behavior, human resources, psychology, and technology, ensuring a comprehensive analysis of the topic from multiple perspectives. The data collected were analyzed using thematic analysis, a widely used method in qualitative research for identifying, analyzing, and reporting patterns within data (Braun & Clarke, 2006). This method allowed the identification of key themes such as the psychological impact of AI adoption, employee coping mechanisms in the face of job insecurity, and the role of psychological resilience in managing workplace challenges. Initially, the studies were screened based on their titles, abstracts, and keywords to determine their relevance, followed by a full-text review to assess their contribution to the research. The selected articles were then categorized into themes based on the central issues they addressed, such as AI's influence on job roles, the emotional toll of job insecurity, and resilience-building strategies.

To ensure a systematic and reliable analysis, the data collection process adhered to a rigorous screening procedure, and the synthesis of the findings was guided by a structured thematic approach. The final analysis provided a comprehensive narrative on the challenges employees face in adapting to AI-driven changes in the workplace, emphasizing the critical role of psychological resilience. By synthesizing findings from interdisciplinary sources, this study provides valuable insights into the future of work, proposing strategies for enhancing employee adaptation and resilience in AI-augmented environments. Furthermore, the inclusion of both qualitative and quantitative studies from diverse disciplines enriched the analysis, ensuring a balanced and nuanced understanding of the complexities surrounding AI adoption and its effects on employees' psychological well-being (Van den Heuvel et al., 2020; Arntz et al., 2016).

RESULTS AND DISCUSSION

The data presented in the table below is the result of a selection process from several related articles identified during the research on "Artificial Intelligence Adoption, Job Insecurity, and Psychological Resilience: Challenges for Employee Adaptation in Future Work Environments." Ten articles were carefully chosen based on their quality, relevance, and contribution to understanding AI adoption, job insecurity, and psychological resilience in the face of major workplace changes. Each selected article offers valuable insights into the topic of this study, and the key findings derived from these articles are summarized in the following table.

Table 1. Literature study

| No. | Article | Study Method | Key Findings |
|-----|--|---|---|
| 1 | Arntz, M., Gregory, T., & Zierahn, U. (2016). The risk of automation for jobs in OECD countries: A comparative analysis | Quantitative comparative analysis using OECD country data | AI poses significant risks to routine-based jobs in OECD countries, with automation affecting a wide range of industries. |
| 2 | Brynjolfsson, E., & McAfee, A. (2014). The second machine age: Work, progress, and prosperity in a time of brilliant technologies | Theoretical analysis and exploration of technological impacts on work | AI and automation will drastically transform work, requiring new skills but also creating new job opportunities in tech fields. |
| 3 | Chui, M., Manyika, J., & Miremadi, M. (2016). Where machines could replace humans—and where they can't (yet) | Qualitative analysis of AI's potential to replace human jobs across industries | AI is capable of replacing human roles in routine and low-skilled jobs but faces challenges in complex decision-making tasks. |
| 4 | De Witte, H. (2005). Job insecurity and psychological well-being: Review of the literature and exploration of some unresolved issues | Literature review and meta-analysis on job insecurity and psychological effects | Job insecurity is highly correlated with poor psychological well-being and negative emotional outcomes for employees. |
| 5 | Jiang, K. (2018). Job insecurity and employee well-being: The role of personal and organizational factors | Empirical study on the role of job insecurity in employee well-being | Job insecurity negatively impacts employee performance, but resilience can mitigate these effects. |
| 6 | Kalleberg, A. L., & Vallas, S. P. (2018). Precarious work: Causes, consequences, and remedial approaches | Conceptual analysis and exploration of precarious work in modern labor markets | Precarious work is increasing due to technological advancements, requiring new strategies for labor protection and workplace stability. |
| 7 | Luthans, F., Vogelgesang, G. R., & Lester, P. B. (2008). Developing the psychological capital of resiliency | Theoretical framework development of psychological capital and resilience | Psychological capital, including resilience, plays a significant role in helping employees cope with work disruptions caused by change. |

| No. | Article | Study Method | Key Findings |
|-----|---|---|---|
| 8 | Van den Heuvel, M., Demerouti, E., & Bakker, A. B. (2020). Job insecurity and work motivation: The role of resilience | Empirical study on job insecurity and resilience's moderating role in work motivation | Resilience reduces the negative effects of job insecurity, enhancing employee motivation and reducing stress. |
| 9 | Braun, V., & Clarke, V. (2006). Using thematic analysis in psychology | Qualitative analysis using thematic analysis method to understand data patterns | Thematic analysis of psychological resilience reveals its importance in workplace adaptation, particularly in handling disruptions. |
| 10 | Schiemann, W. A. (2021). The changing nature of work and the workforce: A perspective on the future of work | Theoretical analysis on future trends in work and organizational changes | Work is undergoing profound changes driven by technology, leading to the need for organizations to adapt to new labor market realities. |

Based on the data presented in the table above, several key findings emerge from the literature review concerning the challenges faced by employees in the context of AI adoption, job insecurity, and psychological resilience. The majority of the studies emphasize the profound impact that AI and automation will have on the labor market, particularly concerning routine and low-skilled jobs. Arntz et al. (2016) highlight that AI poses significant risks to such jobs, which could lead to widespread job displacement. Similarly, Chui et al. (2016) and Brynjolfsson & McAfee (2014) further support this view, noting that while AI will create new job opportunities, it will also necessitate the continuous development of new skills to stay relevant in the workforce.

The literature also indicates that job insecurity remains a significant psychological challenge for employees in AI-driven environments. Studies by De Witte (2005) and Jiang (2018) reveal that job insecurity is strongly correlated with negative psychological outcomes, including stress, anxiety, and diminished job satisfaction. However, the importance of psychological resilience in mitigating these negative effects is a recurring theme in the literature. Research by Luthans et al. (2008) and Van den Heuvel et al. (2020) underscores that resilience helps employees cope with the uncertainties brought about by AI adoption, buffering the adverse effects of job insecurity and enhancing overall well-being and work motivation.

Additionally, the need for resilience in the face of AI-related disruptions is further supported by studies on precarious work and psychological capital. Kalleberg & Vallas (2018) discuss how the rise of precarious work, driven by technological advancements, demands new strategies for labor protection. Luthans et al. (2008) and Braun & Clarke (2006) highlight that cultivating psychological resilience is essential for employees to adapt to these changes, as resilient individuals are better equipped to maintain motivation, engage with new technologies, and cope with the anxiety associated with job insecurity.

In conclusion, the findings from the literature review suggest that while AI adoption brings significant challenges, particularly in terms of job displacement and insecurity, fostering psychological resilience among employees can play a crucial role in helping them adapt to these changes. Organizations must focus on supporting their employees by developing resilience through training programs and creating a supportive work environment that allows employees to thrive in an AI-driven future.

Discussion

The findings from the literature review highlight several critical issues that employees face in the rapidly evolving work environment, particularly with the growing adoption of Artificial Intelligence (AI). The concerns about job displacement due to automation, especially in routine-based jobs, are increasingly relevant in the current context. As Arntz et al. (2016) suggest, AI poses significant risks to jobs in sectors where tasks are repetitive and easily automated. This phenomenon is not just theoretical—real-world examples such as the automation of manufacturing jobs and the rise of self-checkout systems in retail are tangible manifestations of these concerns. The ongoing disruptions caused by AI are reflected in reports by institutions such as McKinsey & Company, which predict that a significant portion of jobs will be replaced by automation in the coming decades (Chui, Manyika,

& Miremadi, 2016). However, these technologies also create new opportunities in tech fields, as highlighted by Brynjolfsson and McAfee (2014), where the demand for new skills—such as data analysis and AI programming—continues to rise.

Simultaneously, the psychological impact of these disruptions cannot be overlooked. Job insecurity, as discussed by De Witte (2005) and Jiang (2018), remains one of the most pressing concerns among employees facing technological change. Employees often experience heightened anxiety and stress when they perceive a threat to their job security, especially when they lack the skills to compete in a rapidly changing job market. This is particularly evident in industries like manufacturing, where workers fear displacement due to automation. The concept of job insecurity and its psychological implications aligns with the "effort-reward imbalance" model, which suggests that employees who feel their job is under threat experience stress that can affect their overall well-being and performance (Siegrist, 1996).

However, resilience emerges as a powerful factor in mitigating the negative effects of job insecurity. Luthans et al. (2008) and Van den Heuvel et al. (2020) emphasize the importance of psychological resilience in helping employees cope with the stressors induced by AI adoption and job insecurity. Resilient individuals are better equipped to adapt to the uncertainties of the future labor market and maintain high levels of motivation despite challenges. The findings from this literature review align with resilience theory, which argues that resilient employees can recover from adversity, adapt to new circumstances, and even flourish in the face of significant change (Masten, 2001). This perspective is particularly crucial in today's context, where the rapid pace of technological change demands an adaptive and resilient workforce.

In light of these findings, it is clear that organizations must invest in programs aimed at fostering resilience. This includes offering continuous training to equip employees with the skills necessary to navigate an AI-driven environment and providing psychological support to help them manage the anxiety that often accompanies job insecurity. The role of organizational culture in promoting psychological resilience cannot be overstated, as it influences how employees perceive and react to challenges (Kuntz, Garcia, & Jimmieson, 2013). A supportive and adaptive organizational culture can buffer the negative effects of job insecurity and enhance employees' ability to thrive in an ever-evolving work environment.

In conclusion, the integration of AI into the workforce presents both challenges and opportunities. While automation poses a threat to certain jobs, it also creates new roles that demand advanced skills. The key to navigating this transition lies in fostering resilience among employees, helping them adapt to change and cope with the uncertainty that accompanies AI-driven disruptions. Organizations that prioritize both technical training and psychological support for their employees will be better equipped to create a workforce that is not only technologically proficient but also emotionally resilient in the face of change.

CONCLUSION

The findings from this literature review underscore the significant challenges employees face due to the increasing adoption of Artificial Intelligence (AI) in the workplace. AI, while presenting opportunities for enhanced productivity and efficiency, also brings the threat of job displacement, particularly in routine-based and low-skilled jobs. The literature reviewed highlights the psychological toll of job insecurity on employees, which can manifest as stress, anxiety, and reduced job satisfaction. However, the studies also emphasize the critical role of psychological resilience in buffering these negative effects. Resilience, as demonstrated by several studies, enables employees to better cope with the uncertainties introduced by AI and maintain their well-being in the face of job insecurity. Thus, fostering resilience in the workforce is essential for ensuring a smooth transition to AI-integrated work environments. The combination of upskilling programs and emotional support structures within organizations can help employees adapt to this new era, ensuring that they remain competitive in the evolving job market.

Recommendations for Future Research

Future research should focus on exploring how different organizational strategies to enhance resilience—such as leadership styles, employee support programs, and organizational culture—can impact the successful adaptation of workers to AI-driven changes. Additionally, research could investigate the long-term effects of AI adoption on worker engagement and mental health, particularly in industries that are most at risk of automation. Further empirical studies are needed to assess the effectiveness of resilience training

programs and their role in reducing anxiety and enhancing performance in the workplace. Finally, it would be valuable to examine the interplay between technological advancements, job insecurity, and resilience across different cultural and geographical contexts to develop more comprehensive, globally applicable strategies for workforce adaptation in the AI era.

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