Influence of Artificial Intelligence on the Employment of Chinese Higher Education Students- Review and Research Limitation

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Abstract
The objective of this study is to examine the correlation between artificial intelligence (AI) and the employment opportunities available to Chinese students pursuing higher education. This study aims to examine the multifaceted effects of artificial intelligence (AI) on student employment. It will consider various factors, including the transformation of the job market driven by AI, changes in education and skill requirements, the role of AI in career guidance and recruitment, and the impact of remote work and globalization. By analyzing these variables, we seek to gain a comprehensive understanding of the intricate dynamics of AI’s influence on student employment. Moreover, this study aims to investigate the impact of education quality as a mediating variable on the potential modification of these relationships. The research is delimited to specific variables and stakeholders within the Chinese context. The findings’ generalizability may be compromised by resource limitations.

Keywords: Artificial intelligence, higher education, student employment, job market, career guidance and recruitment, remote work and globalization, Chinese context.

1. Introduction

Artificial Intelligence (AI), an innovative and transformative entity within the realm of digital advancements, has commenced its integration into various facets of human existence, thereby reconfiguring conventional domains and propelling a novel era of industrial transformation. The rapid advancement of technology presents significant implications and challenges, particularly with regards to employment prospects for students in higher education. China, a country that is leading in the field of artificial intelligence (AI) development and utilization, presents an exceptional context for examining the effects of AI. China’s higher education system, being the largest in the world, encompasses a substantial population of university students. These students find themselves increasingly interconnected with the emerging era of artificial intelligence (AI) in terms of their future career trajectories. The current cohort is currently confronted with a swiftly changing job market, dynamic shifts in education and skill prerequisites, a developing paradigm of career guidance and recruitment, and an expanding scope of
remote work and globalization. This study aims to enhance our comprehension of the correlation between artificial intelligence (AI) and the employment prospects of students in higher education. Its objective is to offer valuable insights to educators, policymakers, students, and employers. This study contributes to the expanding field of research on the impact of artificial intelligence (AI) on society, with a specific focus on how it is transforming the future employment landscape for upcoming generations. In conclusion, this research has the potential to provide valuable insights into the development of effective strategies aimed at equipping higher education students with the necessary skills and knowledge to thrive in a world heavily influenced by artificial intelligence.

2. Research Review

2.1 The Rise of Artificial Intelligence

The establishment of the theoretical underpinnings of artificial intelligence (AI) took place in the mid-20th century, when scholars embarked on the investigation of developing machines with the ability to imitate human intelligence (McCulloch & Pitts, 1943). The nomenclature “Artificial Intelligence” was formally introduced during the Dartmouth Conference in 1956, signifying the commencement of AI as a discrete discipline (McCarthy et al., 1955). The field of artificial intelligence (AI) underwent phases of optimism and disillusionment during the latter half of the 20th century, commonly referred to as “AI winters.” These periods were characterized by a perceived stagnation in progress and a decline in financial support (Crevier, 1993). Nevertheless, the discipline began to experience a steady acceleration starting in the 1990s due to the amplified computational capacity, the widespread availability of digital data, and the emergence of the internet (Kurzweil, 2005).

Artificial intelligence (AI) has become prevalent across diverse industries, including healthcare, finance, education, and transportation, facilitating enhanced efficiency, personalized experiences, and innovative advancements. For example, the utilization of artificial intelligence (AI) in the healthcare sector, specifically in areas such as predictive analytics, diagnostics, and patient monitoring, holds promise for enhancing the provision of care and enhancing patient outcomes (Jiang et al., 2017). Artificial intelligence (AI) is also revolutionizing business processes and models. Organizations utilize artificial intelligence (AI) to employ predictive analytics, automated customer service, and personalized marketing, thereby enhancing operational efficiency and fostering customer engagement (Davenport & Ronanki, 2018). The ramifications of artificial intelligence on society are significant. Artificial intelligence (AI) possesses the capacity to effectively tackle intricate societal issues, including but not limited to climate change, healthcare, and education, as highlighted by Vinuesa et al. (2020). Nevertheless, the utilization of AI technology also gives rise to ethical and societal considerations pertaining to privacy, the displacement of employment opportunities, and the transparency of decision-making processes (Cath et al., 2018).
2.2 AI and the Transformation of the Job Market

The advent of Artificial Intelligence (AI) is not solely transforming various sectors, but also fundamentally altering the essence of labor and the employment landscape. The impact of this phenomenon on employment is multifaceted, resulting in both the process of creative destruction and the emergence of transformative creation within the workforce.

The integration of artificial intelligence (AI) into the labor market has resulted in substantial changes to employment dynamics. On the one hand, automation threatens routine and manual tasks traditionally performed by humans. On the other, AI is creating new opportunities for non-routine, cognitive tasks. Bessen (2019) suggests that AI might reduce demand for certain occupations but increase demand for others that work in tandem with AI technologies. This ‘creative destruction’ leads to the ‘transformative creation’ of new job types and roles. A report from the World Economic Forum (2018) projects that while automation could displace 75 million jobs by 2022, it could create 133 million new ones. These new roles emerge from the direct development and application of AI technologies, as well as indirectly from the economic effects and productivity gains produced by AI (Arntz, Gregory, & Zierahn, 2016).

The rise of AI has led to significant shifts in skill demand. Jobs involving complex problem-solving, critical thinking, and creativity—areas where AI currently underperforms humans—are increasingly in demand. Moreover, as AI systems become more prevalent, there will be an increasing need for AI fluency and the ability to work alongside AI (OECD, 2018). In contrast, the demand for routine cognitive and manual skills, such as data entry and machinery operation, is projected to decrease as these tasks are susceptible to automation (Chui, Manyika, & Miremadi, 2016).

In conclusion, AI is a significant catalyst for job market transformation. Its influence extends beyond the simple substitution of human labor, leading to a complex interplay of job destruction and creation, shifts in skill demand, and changes in job structure. As the job market continues to evolve under AI’s influence, careful attention is needed to ensure that the benefits of AI are broadly shared and that potential inequalities and displacement are actively managed.

2.3 Shifting Educational Needs and Skill Requirements

The integration of AI into various sectors is leading to a redefinition of the skillsets required in the job market, subsequently shifting the demands placed upon education systems. Understanding this change helps identify the new skills required and how higher education can adapt to meet these new requirements.

As AI and automation take over routine and predictable tasks, the demand for uniquely human skills is rising. These include creativity, complex problem-solving, critical thinking, and social skills, such as collaboration and negotiation (Bessen, 2019). Emotional intelligence, leadership, and service orientation also become more critical as these skills are challenging to automate (World Economic Forum, 2018). As digital technologies become ubiquitous, digital fluency becomes a prerequisite for almost all jobs. Digital fluency extends beyond basic digital literacy to involve the ability to use digital tools creatively and critically (ECDL Foundation, 2015). With AI becoming a common business tool, understanding its
applications and limitations (AI literacy) has also become an essential skill (OECD, 2019).

The rapid pace of technological change necessitates a shift from education being a discrete stage in life to a continuous, lifelong process. Workers must become lifelong learners, continually acquiring new knowledge and skills in response to the evolving job market (Schwab, 2016). Furthermore, adaptability and learning agility—the ability to learn, unlearn, and relearn—become critical as job roles and requirements continually change (Harvard Business Review, 2020).

These shifts in skill demand have significant implications for higher education. Institutions must rethink their curricula to prioritize the development of soft skills, digital and AI fluency, and the ability to learn continuously. Traditional lecture-based instruction may give way to project-based learning, internships, and other experiential learning modes that better foster these skills (Christensen & Eyring, 2011).

Moreover, higher education institutions can play a critical role in lifelong learning by providing ongoing education and training opportunities, including online courses and professional development programs. Some universities have started offering 'micro-credentials' that allow individuals to acquire specific skills without completing a full degree program (Chakradhar, 2020).

In conclusion, the rise of AI is significantly reshaping the required skills in the job market, thereby changing the demands on the education system. Higher education institutions must adapt to these changes, not only to prepare their students for the job market but also to contribute to an adaptable, resilient workforce that can navigate the challenges of the AI age.

2.4 AI in Career Guidance and Recruitment

Artificial Intelligence (AI) is steadily revolutionizing various aspects of career guidance and recruitment processes, playing a pivotal role in aligning individual capabilities with market needs. Several transformative trends driven by AI in these areas have been documented in the literature. One of the most noticeable impacts of AI is in streamlining and automating recruitment processes. The field of Artificial Intelligence (AI) is progressively transforming different facets of career counselling and recruitment procedures, assuming a crucial function in harmonizing individual aptitudes with market demands. The literature has documented numerous transformative trends that have been propelled by artificial intelligence (AI) in these domains.

One of the most prominent effects of artificial intelligence (AI) is observed in the optimization and mechanization of recruitment procedures. The conventional methods of recruitment have historically been characterized by a lengthy duration and frequently yielded suboptimal alignments. The utilization of AI-powered platforms has facilitated the implementation of automated resume screening, resulting in notable time savings for recruiters and enhancing the objectivity of candidate evaluations. According to Davenport and Guha (2019), AI tools employ Natural Language Processing (NLP) and machine learning techniques to examine resumes and compare them with job descriptions, with a particular emphasis on identifying the most highly qualified candidates.

Artificial intelligence (AI) tools are employed for the purpose of analyzing extensive datasets and making predictions about future outcomes. Consequently, these tools empower recruiters to make decisions that...
are informed by data. These technologies employ historical performance data and additional variables to forecast the likelihood of a candidate's success in a specific position. According to Brynjolfsson and McAfee (2014), the utilizations of predictive analysis offers recruiters significant insights that have the potential to enhance the efficacy of their hiring decisions.

The utilization of AI-powered virtual career advisors is experiencing a growing trend in popularity. These advisors employ artificial intelligence algorithms to evaluate an individual's aptitudes, credentials, areas of interest, and professional aspirations in order to deliver tailored guidance regarding career choices. One illustration of this is the utilization of artificial intelligence (AI) by platforms like LinkedIn to provide users with job recommendations that align with their profiles, preferences, and search history (Kapoor & Hsieh, 2017).

The prevalence of video interviews is increasing, and artificial intelligence (AI) is playing a pivotal role in facilitating this transition. Artificial intelligence (AI) possesses the capability to examine both verbal and non-verbal cues exhibited by candidates, thereby equipping recruiters with a more extensive comprehension of the candidate's appropriateness for the given position. According to Chamorro-Premuzic (2019), this technology enables recruiters to conduct interviews on a larger scale than was previously feasible, thereby enhancing the efficiency of the hiring process.

In brief, artificial intelligence (AI) has introduced enhanced efficiency, increased objectivity, and heightened precision to the realms of career guidance and recruitment procedures. The aforementioned advancements possess substantial implications for individuals who are entering the labor force. On one hand, these platforms offer a streamlined mechanism for students to align their skills and interests with prospective employment prospects. However, it is imperative for students to adjust to these changes by prioritizing the development of skills that are recognizable by artificial intelligence and by adequately preparing for recruitment processes that are driven by AI. However, while the utilization of AI in career guidance and recruitment is accelerating, there remain ethical and privacy issues that need to be addressed, particularly around algorithmic bias and data protection. These challenges remind us that while AI can provide valuable tools, human judgment and oversight remain indispensable in career guidance and recruitment.

2.5 Remote Work and Globalization in the AI Era

The rise of Artificial Intelligence (AI) has been a game-changer in the world of work, facilitating the shift towards remote work and contributing to the globalization of the workforce.

Remote work, also known as telework, has become more prevalent in the digital era, where physical presence is no longer a prerequisite for many jobs. AI and associated technologies like machine learning have advanced to a point where they can support complex, collaborative tasks remotely (Brynjolfsson, Horton, & Tambe, 2020). Tools powered by AI, such as virtual assistants and communication platforms, have made it possible for employees to work efficiently from anywhere. AI also supports remote work by automating routine tasks, making virtual teams more productive. AI-powered project management tools can automate task assignments, track progress, and even predict project risks, thereby enhancing productivity and collaboration among remote teams (Davenport, Guha & Grewal, 2020).
The utilizations of artificial intelligence and digital technologies has additionally enabled the global expansion of the labor force. Online platforms and freelancing websites, utilizing AI algorithms, facilitate the connection between employers and potential employees across the globe, effectively establishing a worldwide marketplace for skilled individuals. This implies that individuals seeking employment are no longer constrained by geographical boundaries, as they now have the opportunity to seek job opportunities globally, contingent upon possessing the necessary qualifications (Kapoor & Hsieh, 2017). The current trend of remote work and the increasing global nature of the labor market presents both advantages and difficulties for Chinese students pursuing higher education. One of the advantages is that students are able to explore a broader range of employment prospects that extend beyond geographical limitations. However, they encounter heightened competition from their counterparts on a global scale. Moreover, it is imperative for individuals to cultivate competencies that are not only pertinent but also competitive within a worldwide context (Horton, 2020). In light of the global transition to a paradigm commonly referred to as the ‘new normal’, it is imperative for educational systems to effectively align themselves with this evolving landscape. There is an increasing demand to provide students with the necessary skills to excel in a remote and global professional setting. The aforementioned skills encompass digital literacy, cross-cultural communication, and proficiency in collaborating efficiently within virtual teams (OECD, 2020).

In brief, the impact of artificial intelligence (AI) on the transition to remote work and the globalization of the labor force has been substantial. The aforementioned phenomenon introduces novel prospects, yet concurrently presents obstacles in the form of heightened competition and the requisite proficiencies. Educational institutions are urged to adopt proactive measures in order to adequately equip students for the evolving job market. Nevertheless, it is imperative to acknowledge that the transition to remote work is not universally applicable to all industries and positions. The consideration of jobs that necessitate a physical presence remains crucial in the strategic planning for the future of work and education.

### 2.6 Quality of Education and Its Impact on Employment Prospects

The quality of education plays a crucial role in shaping the employment prospects of higher education students. In a rapidly evolving job market spurred by AI and technological advancements, educational institutions are tasked with delivering high-quality education that prepares students for the realities of the workforce (OECD, 2018). The quality of education encompasses several aspects, including curriculum relevance, teaching quality, and student outcomes. Curriculum relevance refers to the alignment between what is taught in educational institutions and the skills required in the job market. Teaching quality involves the effectiveness of teaching methods and the ability of educators to engage and inspire students. Student outcomes encompass the knowledge, skills, and competencies that students attain upon completing their educational journey (Scheerens et al., 2017).

A high-caliber education provides students with pertinent skills and knowledge, consequently augmenting their prospects for employment. On the other hand, a disparity between the competencies provided by educational establishments and the competencies sought by employers can give rise to a discrepancy in
skills, which may ultimately result in joblessness or inadequate employment opportunities (McGuinness et al., 2015). Artificial intelligence (AI) presents a promising opportunity to augment and improve the overall quality of education. The implementation of artificial intelligence (AI) in personalized learning has the potential to customize educational content according to the unique requirements of each student, leading to enhanced learning results. Artificial intelligence (AI) has the potential to assist in administrative duties, thereby allowing educators to allocate more of their time and attention towards instructional activities. In addition, artificial intelligence (AI) has the capability to offer significant contributions in terms of data analytics, allowing educators to effectively recognize and tackle areas of learning deficiency (Luckin et al., 2016).

Given the transformation of the job market by AI, it is increasingly important for the curriculum to incorporate AI-related knowledge and skills. Educational institutions need to adapt their curriculum to include AI technologies and principles, data analysis skills, and ethical considerations associated with AI use. Teaching methods should also evolve, with more focus on experiential learning, problem-solving, and interdisciplinary approaches (Bessen, 2019). In China, improving the quality of education is a key government priority, as evidenced by various education reforms and initiatives. However, the rapid development of AI poses new challenges for educational institutions to keep pace with changing skill demands. Striking a balance between traditional subjects and emerging AI-related disciplines is crucial to prepare Chinese higher education students for the future job market (Huang, 2020).

In conclusion, the quality of education significantly influences the employment prospects of higher education students. As AI continues to transform the job market, it is imperative for educational institutions, especially in China, to adapt their curriculum and teaching methods to equip students with relevant AI-related skills.

2.7 Quality of Education as a Mediating Factor
The quality of education has a mediating role in the relationship between AI’s impact and the employment prospects of higher education students. This section explores this role and provides a theoretical basis for the assertion, supported by literature and research.

The mediating role of education quality refers to how the level of education quality can influence the effect of AI on student employment prospects. The presence and effective use of AI can either amplify or mitigate the role of education quality in shaping students' employment outcomes. For instance, in an education system where AI is effectively incorporated, the quality of education can become an even more important determinant of employment prospects. Conversely, in contexts where AI is not adequately harnessed, the quality of education might have a lesser influence on student employment outcomes (Barón & Cobb-Clark, 2014).

AI can enhance the quality of education in numerous ways, such as personalized learning, predictive analytics, administrative efficiency, and novel teaching methodologies. This enhancement can lead to improved student outcomes and, subsequently, better employment prospects. By preparing students with relevant skills demanded in an AI-driven job market, quality education mediates the impact of AI on employment (Luckin et al., 2016). On the contrary, a significant skill mismatch can occur if educational
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Institutions fail to adapt to the AI-driven changes in the job market, which may lead to suboptimal employment outcomes for graduates. In this case, the lack of quality education (in terms of relevance) can mediate the negative effects of AI on student employment prospects (McGuinness et al., 2015).

The Chinese education system is a unique context to study this mediating role, given the country’s emphasis on high-quality education and its status as a global leader in AI. If the Chinese higher education system can successfully incorporate AI and deliver high-quality, relevant education, it could greatly improve graduates’ employment prospects in an increasingly AI-driven job market (Huang, 2020).

In conclusion, the quality of education mediates the relationship between AI and the employment prospects of higher education students. The efficacy of this mediation is predominantly contingent upon the extent to which educational institutions successfully incorporate artificial intelligence (AI) and adjust to the dynamic skill demands of the labor market. The significance of ongoing research in the field of artificial intelligence (AI) cannot be overstated, considering its rapid growth and extensive influence. Such research is crucial in order to gain a deeper comprehension of AI and effectively utilize its capabilities to enhance the educational experience for students.

3 Problem Statement

The exponential progress of Artificial Intelligence (AI) has brought about substantial changes in the labor market, presenting a range of prospects and difficulties for students in higher education. It is imperative to comprehend the ramifications of artificial intelligence (AI) on the employment prospects of Chinese higher education students, as this knowledge is essential for adequately equipping them to navigate the ever-changing job market. However, previous research has predominantly concentrated on the influence of artificial intelligence (AI) on the transformation of the job market, alterations in education and skill prerequisites, the utilization of AI in career guidance and recruitment, and the implementation of remote work in Western settings. There exists a research gap pertaining to the Chinese higher education system, specifically in relation to the mediating influence of education quality on the association between artificial intelligence (AI) and employment opportunities. Consequently, the primary objective of this research is to address these knowledge gaps and offer a comprehensive analysis of the impact of artificial intelligence on the employment prospects of Chinese students pursuing higher education.

The present challenge pertains to the restricted comprehension regarding the impact of artificial intelligence on the employment prospects of Chinese students in higher education. The literature extensively addresses the influence of AI on the transformation of the job market, as evidenced by Bessen’s (2019) work. However, a research gap exists concerning the specific examination of the Chinese context. China, being a prominent player in the field of artificial intelligence (AI) on a global scale, possesses distinctive dynamics and encounters specific challenges that necessitate focused consideration. The primary objective of this study is to fill the existing research gap by investigating the precise influence of artificial intelligence (AI) on the employment opportunities of Chinese students pursuing higher education.
Furthermore, prior research has examined the evolving demands in education and skills resulting from the advent of artificial intelligence (AI) (Brynjolfsson et al., 2018). Nevertheless, a research gap exists regarding the specific implications of these changes for students in Chinese higher education. In order to comprehend the impact of artificial intelligence (AI) on the skill requirements and educational necessities of Chinese students, it is imperative to conduct a specialized examination of the Chinese education system, which is distinguished by its extensive scope and distinctive attributes.

The role of artificial intelligence (AI) in career guidance and recruitment within the Chinese context has been given limited attention. The existing literature has focused on the development of AI-driven platforms and tools for the purpose of enhancing job matching and candidate screening (Davenport & Guha, 2019). However, there is a dearth of research that investigates the effects of these AI-driven practices on the employment outcomes of Chinese higher education students. Gaining a comprehensive comprehension of the integration of artificial intelligence (AI) within career guidance and recruitment procedures in China holds significant importance in directing students towards appropriate employment prospects.

In addition, the emergence of remote work and globalization in the era of artificial intelligence represents a significant and influential trend (Brynjolfsson, Horton, & Tambe, 2020). Nevertheless, the impact of these alterations on the employment opportunities of Chinese tertiary education students remains inadequately investigated. With the increasing possibilities of remote work and the expansion of the global job market, it is essential to understand the specific implications for Chinese students and their ability to compete and succeed in a globalized workforce.

Lastly, the mediating role of the quality of education has been recognized in the literature (Luckin et al., 2016; McGuinness et al., 2015). However, there is a gap in research that investigates the mediating effect of education quality in the relationship between AI and employment prospects, particularly in the Chinese higher education context. Understanding how the quality of education shapes students’ preparedness for the AI-driven job market is crucial for designing effective educational strategies.

Therefore, this study aims to address the current problem and fill the gaps in previous research by comprehensively examining the impact of AI on the employment of Chinese higher education students. It will specifically investigate the job market transformation, changing education and skill requirements, AI in career guidance and recruitment, and the rise of remote work and globalization. Moreover, it will explore the mediating role of the quality of education in this relationship, shedding light on how educational institutions can better prepare students for the AI-driven job market in China.

4 Research Objectives

(1) To examine the impact of job market transformation driven by AI on the employment of Chinese higher education students.

(2) To evaluate how education and skill requirements in the age of AI influence employment prospects for these students.

(3) To understand the role of AI in career guidance and recruitment, and its subsequent effect on student employment.
To investigate the influence of AI-enabled remote work and globalization on the employment opportunities for Chinese higher education students.

To understand how the quality of education mediates the impact of AI on the employment of Chinese higher education students.

5 Significance of Research

The proposed research on the impact of AI on the employment of Chinese higher education students holds significant importance for several stakeholders, including students, educational institutions, policymakers, and employers. This section discusses the significance of the research and incorporates relevant literature and research to support the analysis.

5.1 Benefits for Students

Understanding the impact of AI on employment prospects is crucial for Chinese higher education students. With AI driving job market transformations, students need to develop relevant skills and knowledge to adapt and thrive in the AI era. The present study aims to offer valuable insights regarding the precise skills and competencies that students must acquire in order to improve their employability and make well-informed decisions about their career paths (Brynjolfsson et al., 2018). Through the process of identifying the various factors that exert influence on employment outcomes, students are able to enhance the alignment between their educational choices and career trajectories, thereby maximizing their prospects for success within a dynamic and rapidly evolving job market.

5.2 Guidance for Educational Institutions

Educational institutions play a crucial role in equipping students with the necessary skills and knowledge to successfully enter and navigate the job market. The research findings will provide valuable insights for higher education institutions in China regarding the requisite modifications and revisions needed in their curricula to effectively correspond with the evolving demands of the job market driven by artificial intelligence. According to Luckin et al. (2016), educational institutions have the capacity to identify specific domains in which artificial intelligence (AI) can be effectively incorporated into pedagogical approaches. Furthermore, these institutions can offer valuable career counselling services and augment students’ competencies by implementing tailored educational initiatives. In order to enhance students’ preparedness for the AI era, educational institutions can strategically modify their educational offerings.

5.3 Policy Implications

Policymakers play a crucial role in influencing the educational landscape and cultivating an atmosphere conducive to the successful incorporation of artificial intelligence (AI) into education and employment systems. This study aims to furnish policymakers with empirically grounded perspectives on the distinct obstacles and prospects linked to the influence of artificial intelligence (AI) on employment within China. The implications of these findings can be utilized by policymakers in the formulation of policies and...
initiatives aimed at fostering AI literacy, fostering collaboration between academia and industry, and ensuring the adaptability of the education system to the evolving demands of the job market (Lee, 2018).

5.4 Industry Relevance and Employer Insights

The operational and workforce aspects of employers and industries are currently undergoing significant transformation as a result of the implementation of artificial intelligence (AI) technology. The study aims to provide significant contributions by shedding light on the evolving skill demands and desired competencies of employers in the era of artificial intelligence. These insights can be utilized by employers to identify the skill gaps present among graduates. By aligning their recruitment strategies with the changing dynamics of the job market, employers can effectively adapt their human resource management practices to make optimal use of AI technologies (Bessen, 2019). This will facilitate improved alignment between the requirements of the job market and the competencies possessed by graduates of Chinese higher education institutions.

5.5 Advancement of Knowledge

The research aims to make a scholarly contribution to the current understanding of the effects of artificial intelligence (AI) on employment within the specific context of China. Although there has been extensive research conducted worldwide on the influence of artificial intelligence (AI) on employment, it is imperative to conduct context-specific studies that consider the distinctive attributes of the Chinese job market and education system (Lee, 2018). Through addressing this knowledge gap, the research endeavor will contribute to the advancement of our comprehension regarding the distinct obstacles and prospects encountered by students in Chinese higher education within the context of the AI era.

In summary, the study on the effects of artificial intelligence (AI) on the employment prospects of Chinese higher education students carries substantial importance for multiple parties involved. This initiative will offer students valuable perspectives on the essential skills required for achieving success. Additionally, it will serve as a guiding resource for educational institutions in designing their curricula, inform policymakers in the formulation of effective policies, aid employers in acquiring talented individuals, and contribute to the overall advancement of knowledge within the field. This study will ultimately make a valuable contribution to enhancing the readiness of Chinese higher education students and aligning the education system with the evolving requirements of the job market influenced by artificial intelligence.

6 Research Scope and Limitations

The study on the effects of artificial intelligence (AI) on the employment prospects of Chinese higher education students is characterized by a clearly defined scope, which establishes the parameters and limitations of the research. The present section provides an in-depth examination of the research scope and limitations, drawing upon pertinent literature and research to substantiate the analysis.
6.1 Research Scope

The objective of this study is to examine the effects of artificial intelligence (AI) on the employment prospects of Chinese students pursuing higher education. The primary objective of this study is to comprehensively examine the transformation of the job market resulting from the integration of artificial intelligence (AI). Specifically, the study aims to investigate the implications of AI on education and the consequent changes in skill requirements. Additionally, the study will explore the role of AI in career guidance and recruitment processes. Furthermore, the study will analyze the impact of remote work and globalization in the era of AI. Lastly, the study will examine the potential mediating effect of education quality on the aforementioned factors.

The study will be undertaken within the framework of the Chinese higher education system, taking into account the distinct dynamics and challenges that exist in China's educational and employment environment. The research will entail the collection of data from various stakeholders in Chinese higher education, including students, employers, educators, and policymakers. This comprehensive approach aims to provide a thorough understanding of the effects of artificial intelligence (AI) on employment in China.

Quantitative research methodologies will be utilized for data collection and analysis. The research questions and objectives will be investigated through the implementation of surveys, interviews, and the analysis of pertinent datasets.

6.2 Limitations

In the light of the research's importance, it is imperative to recognize and engage in a discourse regarding the constraints that could potentially affect the applicability and breadth of the study.

(1) Limitations in Sample Size and Representativeness: The study may encounter constraints regarding the size of the sample and the extent to which the participants are representative. Including a comprehensive and varied sample that accurately represents the entirety of Chinese higher education students, employers, educators, and policymakers may be unfeasible due to limitations in resources and time. Consequently, the findings may not fully capture the perspectives and experiences of various subgroups within the population.

(2) Generalizability: The research findings may have limited generalizability beyond the Chinese higher education context. The dynamics of AI and its impact on employment can vary across different countries and educational systems. Therefore, caution should be exercised when applying the findings to other contexts or regions with distinct characteristics.

(3) Temporal Limitations: The study will be executed within a designated timeframe, potentially restricting the extent and scope of data gathering and analysis. The findings may not encompass long-term effects or capture the complete range of changes in the employment landscape driven by AI.

(4) Self-Report Bias: The research relies on self-report data collected through surveys and interviews, which introduces the possibility of response bias and social desirability bias. Participants may provide answers that align with societal expectations or present themselves in a favorable light. Efforts will be made to minimize these biases through careful questionnaire design and data analysis.
The Dynamic Nature of Artificial Intelligence and Employment: The domain of artificial intelligence is undergoing rapid advancements, leading to a constantly evolving job market. The research findings may provide a limited representation of a particular moment in time and may not encompass forthcoming advancements or emerging patterns. It is imperative to acknowledge that the influence of artificial intelligence (AI) on employment is a continuous progression, and the conclusions of research studies may require contextual interpretation based on the specific timeframe in which the investigation was carried out.

Although certain limitations exist, they do not detract from the importance of the research findings within the specified parameters. The study aims to offer significant contributions to the current understanding of the effects of artificial intelligence (AI) on the employment prospects of Chinese higher education students. By conducting this research, valuable insights will be gained, thereby enriching the existing academic literature on this subject matter.

In summary, the study examines the effects of artificial intelligence (AI) on the employment prospects of Chinese students in higher education. The research is delimited to specific variables and stakeholders within the Chinese context. It is important to acknowledge several limitations in the context of this study. These limitations include the constraints imposed by the sample size, which may affect the generalizability of the findings. Additionally, time constraints may have limited the scope and depth of the research. Furthermore, self-report bias, whereby participants may provide inaccurate or biased information, should be taken into consideration. Lastly, the dynamic nature of artificial intelligence (AI) and employment may yield significant findings regarding the correlation between artificial intelligence (AI) and employment, thereby enriching our comprehension of the distinct obstacles and prospects encountered by Chinese tertiary education students.

7 Conclusion

The objective of this study is to investigate the effects of artificial intelligence (AI) on the employment prospects of Chinese students in higher education. The primary focus of this study is to gain a comprehensive understanding of the transformation occurring in the job market as a result of advancements in artificial intelligence (AI). This includes an examination of the changes in education and skill requirements that have arisen due to the integration of AI technology. Additionally, the research will explore the role of AI in career guidance and recruitment processes, as well as the impact of remote work and globalization in the era of AI. Furthermore, the study will investigate the potential mediating effect of education quality on these aforementioned factors. The study will be undertaken within the context of higher education in China, taking into account the distinct dynamics and challenges that exist in the country's educational and employment environment.

The research holds considerable importance due to its potential advantages for students, educational institutions, policymakers, and employers. This course will provide students with valuable knowledge regarding the essential skills required to thrive in the era of artificial intelligence. Additionally, educational institutions can utilize the research findings to modify their curricula and effectively equip students for the
continuously evolving job market. Policymakers possess the capacity to develop policies that facilitate the advancement of AI literacy and foster collaboration between academic institutions and industrial sectors. Employers have the ability to synchronize their recruitment strategies and human resource practices with the evolving demands of the job market. Moreover, this research makes a valuable contribution to the expansion of scholarly understanding regarding the effects of artificial intelligence (AI) on employment, particularly within the specific context of China.

Nevertheless, the study does possess certain constraints. The findings’ generalizability may be compromised by resource limitations, which can constrain the sample size and representativeness. The ever-evolving nature of artificial intelligence (AI) and its impact on employment presents difficulties in adequately capturing the long-term consequences within the specified timeframe. The reliability of data obtained through surveys and interviews may be affected by self-report bias. Furthermore, it is important to note that the conclusions drawn from this study may possess restricted applicability outside of the specific context of Chinese higher education.

In summary, the investigation pertaining to the influence of artificial intelligence (AI) on the employment prospects of Chinese students pursuing higher education fills a notable void in the existing body of scholarly work. Through a comprehensive analysis of the distinct variables and relevant stakeholders within the Chinese context, this research offers significant and valuable insights that can be of great importance to students, educational institutions, policymakers, and employers. Notwithstanding the inherent constraints, the present study will make a valuable contribution to the existing body of knowledge regarding the correlation between artificial intelligence (AI) and employment. This research endeavor will serve to inform and enhance the development of effective strategies aimed at equipping Chinese higher education students with the necessary skills and competencies required to navigate the job market in the era of AI.

Reference


