

Integrating AI into Journalism Education in China: Pathways for Curriculum Innovation and Ethical Adaptation

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Abstract. In the digital age, the rapid development of Artificial Intelligence (AI) technology is reshaping the landscape of Chinese journalism education. Research indicates that the integration of AI technology not only accelerates innovation in Chinese journalism education but also challenges traditional educational models. The core objective of this study is to conduct an in-depth analysis of the application of generative AI technology in Chinese journalism education and to explore its specific impact on educational practices and curriculum design, thereby proposing innovative pathways for curriculum innovation and ethical adaptation. This paper employs a mixed-methods approach, combining a literature review with case study analysis of leading institutions like Communication University of China, to integrate theory with practice. It provides adaptive transformation strategies for journalism education and charts AI-integrated practice modules aimed at cultivating journalism and communication professionals who are adept at operating within the digital age in China. Furthermore, this study explores how to maintain the professionalism and cutting-edge nature of journalism and communication practice education amid this transformation while addressing ethical dilemmas such as algorithmic bias and privacy concerns. It addresses the modern reconstruction of educational content and skill development to ensure that pedagogy remains relevant and forward-looking. These explorations hold significant importance for current and future Chinese journalism education, assisting journalism educators in comprehending the potential and challenges of AI technology in education and balancing technological efficiency with humanistic values, enabling the development of more effective educational strategies.

Keywords: Artificial Intelligence (AI), Journalism Education Reform, Ethical Challenges, Curriculum Innovation, Human-Machine Collaboration.

1. Research Background

From the widespread adoption of machine writing to the rise of AI editors, and now to the emergence of generative AI models like *Sora*, we have entered a new era of human-machine collaboration in news production, marking the official arrival of the *AI + Journalism* model [1]. This technological revolution has not only reshaped various stages of news collection, production, distribution, and feedback but has also given rise to a new paradigm of AI-driven communication based on big data and algorithms. Therefore, it is imperative to reassess the profound impact of technological changes, including AI, on Chinese journalism and communication education. For Chinese journalism and communication programs, which primarily focus on cultivating practice-oriented talents, the ability to adapt to this transformation and determine the necessary adjustments and innovations is an urgent issue that needs to be addressed.

2. Research Questions

Research question 1 - What specific impacts has AI technology had on the theory and practice of journalism education in China?

Research question 2 - In the context of ongoing advancements in AI technology, how should journalism education in China achieve innovative transformation?

3. Research Objectives and Significance

3.1. Research Objectives

This study aims to conduct an in-depth analysis of the diversified applications of generative AI technology in journalism education in China, exploring its opportunities and challenges for traditional education models, and proposing innovative pathways for the transformation of journalism and communication education.

3.1.1 In-depth Analysis of Application Examples of Generative AI Technology in Educational Scenarios

This research will thoroughly analyze the specific applications of AI in journalism education in China, such as intelligent news content generation, personalized teaching support, and data-driven journalism practice training. It will explore how these technologies provide new tools and methods for journalism education.

3.1.2 Exploring and Constructing Innovative Transformation Strategies for Education Models in the AI Era

This research will propose strategies for the transformation of traditional journalism education to adapt to the AI era, covering aspects such as curriculum design, teaching methods, and skill development, with the aim of enhancing the practical abilities and innovative thinking of journalism students in China.

3.2. Research Significance

3.2.1 Filling Academic Gaps

Currently, research on the application of AI in journalism education in China is still in its early stages. Existing literature primarily focuses on technical discussions, lacking case studies and systematic, comprehensive analysis. By combining literature review and case study methods, this research aims to provide more comprehensive and in-depth theoretical support for the integration of AI technology and journalism education.

3.2.2 Promoting Educational Innovation

The transformation pathways proposed in this study offer innovative ideas for educational practice, providing references for the modernization of curriculum design, teaching methods, and practical training in journalism education, thereby facilitating its transformation and upgrading in the digital era.

3.2.3 Enhancing the Quality of Talent Development

Through an in-depth analysis of AI technology applications in journalism education, this study will provide educational institutions with more effective training programs. It will contribute to cultivating well-rounded journalism professionals who possess technical skills, innovative thinking, and professional ethics, enabling them to adapt to the rapidly changing media landscape.

4. Literature Review

4.1. Overview of the Application of AI Technology in the Field of Education

In the field of education, the history and current state of AI technology have consistently been focal points of research and exploration. Jin et al. highlighted the importance of personalized AI tutors, which can discern learners' preferences and provide customized learning materials accordingly [2]. Through a systematic literature review, Tahir deeply analyzed the opportunities, benefits, and challenges of AI in education, providing educators with a comprehensive perspective on the role of this technology in the educational field [3].

AI technology has shown immense potential in the educational field, with diverse application scenarios offering new possibilities for educational innovation. Firstly, AI technology has the potential to significantly enhance personalized education by meticulously analyzing student data, thereby offering tailored learning content and teaching recommendations [4]. Specifically, in journalism education, AI can change traditional teaching models through automated content generation and intelligent recommendation systems [5]. Additionally, the integration of AI is reshaping the content and forms of journalism education. For example, AI technology can increase the efficiency of news production through automated content generation, while also requiring students to develop skills in collaborating with intelligent technologies [6]. In journalism and communication education, AI technology has also facilitated the formation of new modes of division of labor, which not only include the optimization of content production but also the transformation of dissemination methods and audience feedback mechanisms [7].

In summary, the application of AI technology in journalism education has not only driven innovation in educational methods and enriched teaching content but has also prompted the educational system to better adapt to the demands of the modern media environment.

4.2. Overview of the Transformation of Journalism Education

Journalism education is at the forefront of reform, facing unprecedented challenges and opportunities. First, the lack of ethics education has become a critical issue that must be addressed. Given the widespread adoption of AI technology, journalism education confronts ethical dilemmas, breaches of privacy, and fundamental questions pertaining to the authenticity of news [5]. Second, the application of AI in journalism education may lead to conflicts between course content and traditional educational concepts. As journalism education adapts to industry changes, it faces the challenge of balancing practicality with academic rigor, as well as the rationality of educational divisions [4]. Furthermore, journalism education needs to continuously update its curriculum to adapt to rapidly advancing technological environments and new demands, or it will struggle to keep pace with the fast-evolving media landscape [8]. Another major challenge lies in the shaken self-worth and social value perception of journalism professionals. As the application of intelligent technology accelerates the effectiveness of journalism talent cultivation, journalism and communication professionals may face the dilemma of losing their professional identity and social value [7].

The literature indicates that while the application of AI in journalism education has improved the quality and efficiency of teaching, the ethical issues, content conflicts, crises of professional value recognition, and challenges in aligning technology with teaching cannot be overlooked.

5. Research Methodology

5.1. Research Design

This study adopts a mixed-methods research design, combining both quantitative and qualitative research methods to comprehensively and thoroughly explore the diverse applications of AI technology in journalism education. The study collects and analyzes current academic papers, monographs, and industry reports related to the research topic through a literature review. Case studies provide in-depth background information and detailed descriptions within specific contexts, helping to understand the practical applications of AI technology in journalism education.

5.2. Data Collection and Analysis

5.2.1 Literature Review Method

In the literature review section, this study focuses on the diverse applications of AI technology in the field of journalism education and the transformation of journalism education. The review will emphasize the impact of AI technology on enhancing teaching effectiveness and student skill application in journalism education.

5.2.2 Case Study Method

In the case study section, this research employs methodologies such as questionnaires and in-depth interviews to gather data. The research subjects include various types of journalism educators, industry experts, and journalism students. The interview questions are designed based on the results of the literature review, focusing on the application effects, challenges, and coping strategies of AI technology in actual teaching practices.

6. Data Analysis and Results Presentation

6.1. Survey Questionnaire

6.1.1 Basic Information of Respondents

The questionnaire data primarily comes from individuals in the main stages of university-level professional education and within the academic research interval, effectively reflecting the application of AI in journalism education.

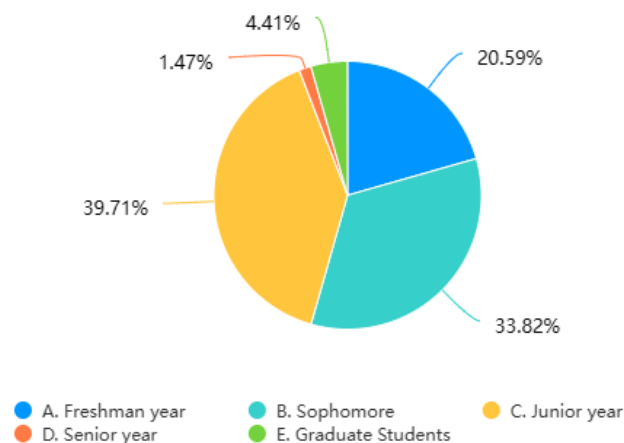


Figure 1. Grade Level

6.1.2 Perception and Understanding of AI Technology

Among the AI technologies mentioned, speech recognition, automated writing tools, and image recognition are the most familiar. This indicates that students have a certain level of understanding of some practical applications of AI that directly impact journalism work.

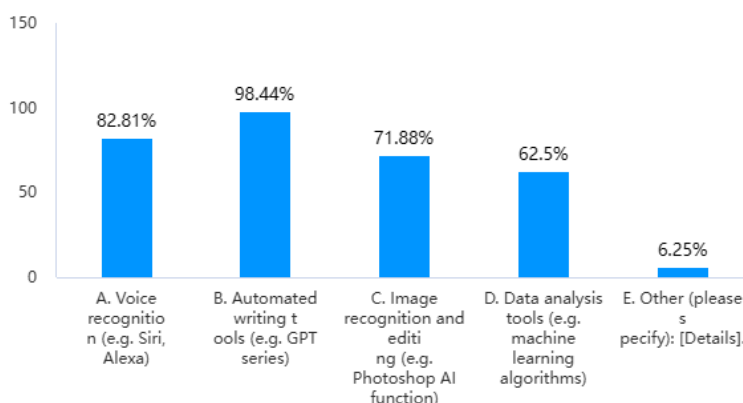


Figure 2. What are the main AI technologies you know about

6.1.3 Application of AI in Education

The survey indicates that although AI technology has been applied in education to some extent, it has not yet become a routine tool in the daily learning of most students.

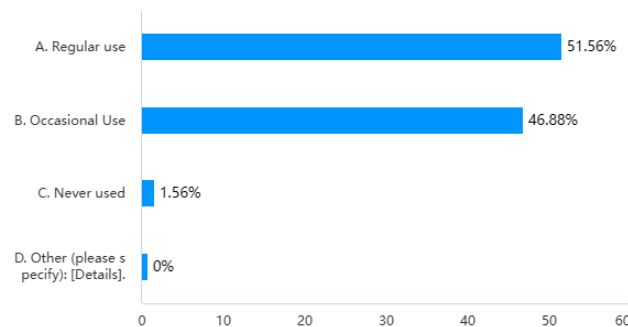


Figure 3. Have you used AI tools in your courses

6.1.4 Perceptions of Learning Effectiveness

Most students reported that using AI tools significantly improved their learning efficiency and interest. This positive feedback suggests that AI has the potential to enhance the effectiveness of journalism education by improving the learning experience.

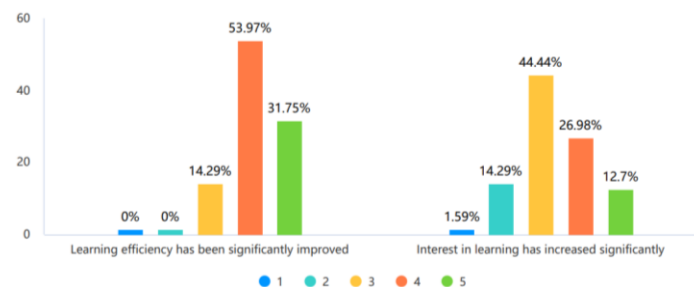


Figure 4. How do you feel when using AI tools to learn

6.1.5 Impact on Skill Development

The majority of respondents believe that AI tools are helpful. This indicates that AI can serve as a powerful supplement to traditional journalism education methods.

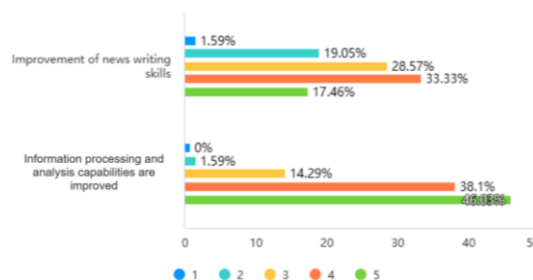


Figure 5. How do you think AI technology can help with

6.1.6 Willingness to Use AI in the Future

Most students expressed a willingness to use AI tools more frequently in their future studies, indicating a positive attitude towards this technology.

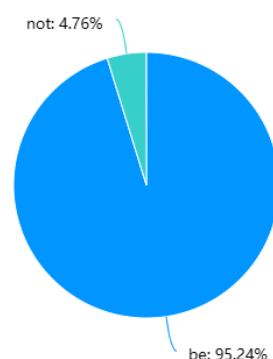


Figure 6. Do you think AI should be introduced in journalism education

6.1.7 Challenges in AI Application

These challenges suggest that there needs to be a balance between the introduction of AI and the development of core journalism skills when designing curricula.

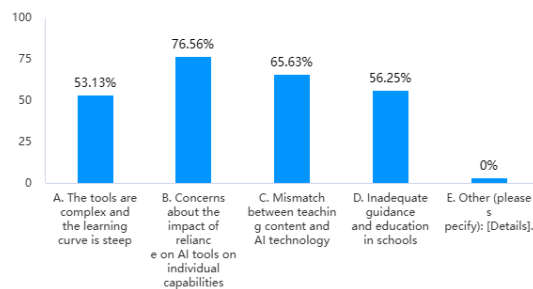


Figure 7. What do you see as the main challenges in the application of AI technology in journalism education

6.2. In-Depth Interviews

6.2.1 Journalism Students

Table 1. Code Scheme1

Interview Question	Interview Content	Code	Key Theme
Year and Major	A 2021 Journalism student, focusing on traditional media with limited courses on data journalism and AI technology	Focus on traditional media vs. Limited AI exposure	Background Information
Understanding of AI Technology	Has some understanding of AI, mainly through using ChatGPT in coursework	Basic AI understanding through application	Background Information
AI Tools Used	Mainly uses Zhipu Qingyan for research,interview outlines, and writing assignments	Use of Zhipu Qingyan in academic tasks.	AI Tools Application Experience
Helpfulness of AI Technology	AI greatly enhance learning efficiency, especially in research	Improved learning efficiency through AI	AI Tools Application Experience
Challenges with AI Technology	Encountered challenges with GPT (e.g., access and verification) and finds Zhipu Qingyan more reliable	Challenges with AI usage, favoring local tools	AI Tools Application Experience
Attitude Toward AI in Journalism Education	Positively supports AI in journalism education, finding it useful in practical applications	Positive support for AI in education	Attitude Towards AI
Concern About Over-Reliance on AI.	Not concerned about over-reliance on AI, sees it as a tool rather than a replacement	No concern about AI hindering skill development	Attitude Towards AI
Worries About AI's Impact on Employment	Not worried about AI affecting job opportunities, believes in the importance of keeping up with technological advances.	Low concern about AI impacting employ ability	Future Expectations and Suggestions
AI Skills Needed in the Future Journalism Industry	Believes that skills in writing news and image generation using AI will be essential.	Essential AI skills: writing and image generation	Future Expectations and Suggestions

Table 2. Code Scheme2

Interview Question	Interview Content	Code	Key Theme
Year and Major	A 2022 Journalism student, focusing on international news	Focus on international journalism	Background Information
Understanding of AI Technology	Has a general understanding of AI from courses and daily use of AI tools	General AI understanding through daily interactions	Background Information
AI Tools Used	Uses ChatGPT, literature search systems, and image-generation sites for research and paper drafting	Use of AI for research and drafting	AI Tools Application Experience
Helpfulness of AI Technology	AI significantly improves learning efficiency	AI's impact on learning efficiency.	AI Tools Application Experience
Challenges with AI Technology	Encountered challenges with AI understanding needs and communication issues	Challenges with AI understanding and communication	Challenges with AI understanding and communication
Attitude Toward AI in Journalism Education	Supports AI in journalism education for improving educational efficiency	Positive support for AI in education	Attitude Towards AI
Concern About Over-Reliance on AI	Concerned about AI replacing basic skills, impacting literature research and independent thinking abilities	Concern about AI impacting basic skills	Attitude Towards AI
Future Integration of AI in Journalism Courses	Hopes for better AI integration in courses, especially in news content retrieval	Desire for better AI integration in education	Future Expectations and Suggestions
Worries About AI's Impact on Employment	Slight concern about employment but believes personal competitiveness is key	Concern about employment but confidence in personal skills	Future Expectations and Suggestions.
AI Skills Needed in the Future Journalism Industry	Believes that literature search, text generation, and image generation skills will be essential	Essential AI skills: research, text, and image generation	Future Expectations and Suggestions

Table 3. Code Scheme3

Interview Question	Interview Content	Code	Key Theme
Year and Major	A 2021 junior Communication student, with no coursework on programming, advanced mathematics, or AI	Communication studies with no AI-related content	Background Information
Understanding of AI Technology	Limited AI knowledge from online exposure and peer discussions, not deeply studied in course	Limited AI understanding through everyday exposure	Background Information
AI Tools Used	Uses ChatGPT, iFLYTEK Spark, Wenxin Yiyan for translation, writing, and planning outlines	Diverse AI tool application (translation, writing, planning)	AI Tools Application Experience
Helpfulness of AI Technology	Finds ChatGPT particularly useful for translation and writing tasks	AI's role in translation and writing	AI Tools Application Experience
Attitude Toward AI in Journalism Education	Holds a positive attitude towards AI, acknowledging its efficiency benefits despite ethical concerns.	Positive support for AI with ethical awareness	Attitude Towards AI
Concern About Over-Reliance on AI	Concerned about AI affecting personal skill development, emphasizes developing skills not easily replaced by AI	Importance of developing high-barrier skills	Attitude Towards AI
Future Integration of AI in Journalism Courses.	Wishes for courses to better integrate AI, particularly through practical exercises	Desire for practical AI training in courses	Future Expectations and Suggestions
Worries About AI's Impact on Employment	Believes employment difficulties stem more from overall economic trends than AI	Employment concerns linked to economic trends, not AI	Future Expectations and Suggestions
AI Skills Needed in the Future Journalism Industry	Believes skills in generative AI, data journalism, and content creation will be crucial	Essential AI skills: generative AI, data journalism, content.	Future Expectations and Suggestions

6.2.2 Journalism Educator

Table 4. Code Scheme4

Interview Question	Interview Content	Code	Key Theme
Experience and Courses	5 years in journalism education, teaching Journalism and Communication History, Journalism Theory	5 years experience in journalism education; courses taught: Journalism and Communication History, Journalism Theory	Background Information
Teaching Focus	Focus on the history and theory of journalism and communication.	Teaching focus: History and Theory of Journalism	Background Information
AI Technology in Institution	AI technologies such as big data, knowledge graphs, and professional large models have been introduced	AI tools used: Big data, Knowledge graphs, Large models	Application of AI Technology
Main Uses of AI Technology	Mainly used for building knowledge graphs, providing extracurricular Q&A, less used in news writing and content creation	AI applications: Knowledge graphs, Extracurricular Q&A	Application of AI Technology
Effectiveness of AI Technology	AI technology is still exploratory; issues with data accuracy and relevance for professional teaching	AI effectiveness: Exploratory, Issues with data accuracy	Teaching Effectiveness and Experience
Student Experience with AI Technology	No significant change observed; students use AI tools for convenience without in-depth understanding	No significant change; superficial use of AI tools	Student Experience with AI Technology
Challenges with AI Technology	AI technology use in teaching is not yet mature enough to discuss challenges	Challenges: Immaturity of AI use in teaching	Challenges in AI Technology Use
Impact of AI on Journalism Industry	AI has posed some challenges but has not yet fundamentally changed news production; video creation is relatively mature	AI impact: Challenges, Limited changes in news production	Impact on Journalism Industry
Skills Required for Journalists	Future journalists need to understand AI operation logic, communicate with engineers, and consider AI in news production	Skills needed: Understanding AI logic, Communication with engineers	Skills Required for Journalists
Focus on AI Training in Journalism Education	Current focus on AI is superficial; more emphasis on operational logic rather than technical training is needed.	Focus: Operational logic vs. Technical training	AI Training in Journalism Education
Alignment with Industry Needs	Questioned if current AI training differs significantly from past focuses like metaverse and big data	Alignment with industry needs: Questioned	Alignment with Industry Needs
Role of AI in Future Journalism Education	Role of AI in future journalism education is currently unknown; needs further maturity.	Future role of AI: Unknown, Needs further maturity	Future Role of AI in Education
Suggestions for AI Integration	Wait for AI technology to mature, closely monitor developments in the meantime	Suggestions: Monitor AI development, Wait for maturity	Suggestions for AI Integration
Future Trends in AI in Journalism	Uncertain about specific developments or trends in AI technology for journalism	Future trends: Uncertain	Future Trends in AI Technology
Advice for Journalism Educators	Focus on foundational work and develop understanding of new technologies from personal insight	Advice: Focus on fundamentals, Understand new technologies	Advice for Journalism Educators

7. Theoretical Framework

7.1. Educational Technology and AI

The integration of Educational Technology with AI (AI) offers a new theoretical framework and practical pathway for the field of journalism education [9]. Educational Technology recognizes the ongoing impact of rapid AI advancements on both educational practice and theory. Educators must continuously update their technological knowledge to keep pace with new developments in educational technology. Simultaneously, research in Educational Technology must stay aligned with the latest AI advancements to guide the reform and innovation of educational practices.

7.2. AI from the Perspective of Communication Studies

From the perspective of Communication Studies, AI is rapidly emerging as a significant factor influencing both the theory and practice of journalism and communication. As technology evolves, AI challenges traditional communication theories. Firstly, the reconstruction of agenda-setting theory has become imperative. Traditionally, this theory emphasizes the media's influence on public agendas, but AI-driven personalized recommendation systems are gradually reshaping this landscape. AI analyzes user behavior and preferences to deliver highly personalized content, which enhances user experience but also risks creating filter bubbles or echo chambers. These phenomena can limit the diversity of viewpoints and hinder the cultivation of critical thinking. Secondly, the transformation of gatekeeping theory is equally critical. In traditional journalism, editors and reporters act as gatekeepers, deciding which news content is selected and presented. However, with the intervention of AI algorithms, the process of information filtering and dissemination has become automated. This shift not only challenges the professional judgment and ethical responsibilities of traditional gatekeepers but also raises concerns about algorithmic transparency and fairness. The challenges posed by AI to communication theories necessitate a re-examination and reconstruction of the theoretical framework to adapt to the changes brought about by technological development.

8. Diversified Applications of AI Technology in Journalism Education

8.1. AI Technology and Media Evolution

The maturity and widespread application of intelligent technologies are revolutionizing traditional information systems, presenting news organizations and professionals with the challenge of deep "machine" involvement in the journalism process [10]. This transformation not only alters the technical aspects of news production but also prompts a rethinking of the values of "journalism" and "journalists."

8.1.1 Automated News Production Processes

AI technology has deeply penetrated various aspects of the news industry, from automated writing to the application of advanced generative AI, significantly altering traditional news production processes. Journalism education must equip students with the skills to use AI tools, enabling them to take on higher-level tasks in automated news production.

8.1.2 Intelligent Content Customization

AI technology enables personalized news customization based on user preferences, disrupting traditional news distribution mechanisms. Journalism education curricula should include teaching modules on data-driven content customization, training students to use data analysis to achieve precise news distribution.

8.1.3 Interactive and Immersive News Experiences

With the integration of AI technology and virtual reality (VR) and augmented reality (AR), the news industry is developing new interactive and immersive news products, offering audiences novel news experiences. This innovation places new demands on journalism education, requiring educators to strengthen their teaching of new media technologies, ensuring students can design and implement immersive news content, thereby enhancing the appeal and impact of news reporting.

8.2. Evolution of Educational Division of Labor and Concepts

The revolution brought by AI technology in journalism education is reflected in the optimization of division of labor and the evolution of educational concepts. This transformation involves not only the application of teaching tools and technologies but also how to cultivate students' innovative thinking and personalized expression to adapt to the continuously evolving media environment.

8.1.1 Curriculum System Integrating Technology and Humanities

To ensure that students find a balance between technology and humanities, journalism education needs to establish a curriculum system that integrates AI technology with journalism, communication studies, ethics, and other humanities disciplines. For instance, the School of Journalism at Renmin University of China collaborated with the Gaoling School of AI to hold interdisciplinary academic seminars, exploring ways to integrate AI technology into journalism education. This curriculum system not only imparts technical skills but also emphasizes humanistic care, helping students understand the societal impacts of AI technology [11].

8.1.2 Dynamic Capability Development Model

The fixed curriculum settings and teaching methods of traditional journalism education often struggle to meet the needs of personalized student development. The introduction of AI technology allows journalism educators to adopt a dynamic capability development model, tailoring personalized learning paths for students [12]. As a result, journalism education is no longer confined to singular knowledge transmission but offers a dynamic, interactive learning experience that enables students to develop unique skill sets to meet future professional demands.

8.1.3 Interdisciplinary Skill Development

AI technology opens new possibilities for interdisciplinary skill development in journalism education. As the journalism industry becomes increasingly diverse, knowledge from a single discipline is insufficient to cope with the complexities of news production. Journalism education should incorporate interdisciplinary courses, fostering students' abilities in data analysis, programming, and ethical judgment [13]. This interdisciplinary education model enhances students' comprehensive literacy, enabling them to remain competitive in a rapidly changing media environment.

9. Challenges AI Technology Brings to Journalism Education

In the context of rapid AI technological development, the field of journalism education is facing a series of profound challenges [14]. These challenges are not only related to the transformation of educational models but also involve the transition of journalistic concepts and the maintenance of ethics and truthfulness.

9.1. Impact on Traditional Educational Models

AI technology is disrupting traditional journalism education models, requiring educators to rethink and redesign teaching methods, incorporating personalized learning pathways and intelligent tutoring tools to cultivate students' technical literacy and innovative capabilities.

9.2. Challenge to Journalistic Concepts

The impact of AI technology on journalistic values and practices is evident in the widespread application of automated news generation. The role of journalists is shifting from information transmitters to technical collaborators. This shift is driving a transition in journalistic concepts from a human-centered subjective judgment approach to a model of human-technology collaboration. Consequently, journalistic concepts are evolving from a traditional focus on truth and depth to a dual responsibility that balances technological efficiency and humanistic care.

9.3. Questioning Journalistic Ethics and Truth

The application of AI technology in news production raises questions about journalistic ethics and truthfulness [15]. While the efficiency of automated content generation is enhanced, there is a risk of diminishing depth and sensitivity, leading to the potential for superficial and homogenized reporting. More critically, the application of AI involves ethical issues such as data privacy, algorithm transparency, and accountability.

10. Innovative Transformation Pathways for Journalism Education in China

This study argues that in the wave of AI, journalism education must cultivate interdisciplinary talents equipped with solid journalistic skills and AI knowledge while emphasizing adherence to journalistic ethics and professional standards. This "work-oriented" education system ensures that journalists maintain their professional edge amid the information deluge.

10.1. Updating Educational Content

In the digital age, educational content must be continually updated to address the new challenges and opportunities brought by technological advancements. The renewal of educational content has become particularly important in the information ecosystem dominated by AI, big data, and social media.

10.1.1 Incorporating Digital Literacy

Journalism education must include the cultivation of digital literacy, helping students master and understand emerging technologies. This includes data analysis, algorithmic literacy, and understanding digital platforms, enabling them to engage effectively in journalism within complex digital environments. In practice, it is necessary to continuously improve curriculum design and practical systems to meet the new requirements for cultivating journalism talent in an AI-driven environment. As a leading institution in journalism and communication education in China, the Communication University of China has consistently dedicated itself to the innovation and development of the discipline. In 2014, the university's School of Journalism pioneered the first undergraduate program in data journalism in the country, leading the exploration of teaching, research, and talent cultivation in the field of data journalism. By 2022, the university further expanded and updated its journalism and communication programs, adding new specializations such as "Public Opinion Analysis" and "Computational Communication" under the Communication Studies major, aiming to cultivate students' comprehensive abilities to use big data and intelligent media technologies to address and explore new issues and phenomena emerging in the field of journalism and communication.

10.1.2 Emphasizing Ethics Education

In journalism education, it is crucial to strengthen the teaching of ethics and legal knowledge, especially in the context of data privacy, AI-driven content generation, and automated news writing. Through ethics education, students will be better equipped to understand and address the moral challenges associated with technological applications, maintaining the credibility and social responsibility of the journalism industry. For example, the School of Journalism and Communication at Central China Normal University has been constructing a media ethics case library since October 2014. At the operational level, journalism and communication education institutions can also establish specific courses or set teaching norms and standards related to AI applications to establish and enforce teaching standards and evaluations. As a globally renowned journalism education institution, the Missouri School of Journalism integrates ethics education into its curriculum, emphasizing the application of critical thinking in journalism to ensure fairness and accuracy in reporting [16].

10.1.3 Focusing on Practice-Oriented Learning

AI technology can not only assist in news content creation but also enhance journalism education. By building practice platforms through AI technology, it is possible to effectively promote the implementation and development of teaching activities in news writing, commentary analysis, and VR journalism. A practice-oriented teaching model not only improves students' practical skills but also helps them better understand the complexity and real-time nature of news production [17]. For example, Cardiff University in the UK places professional skills training at the core of its curriculum, covering areas such as journalism and writing, multimedia technology education, and is equipped with advanced media laboratory facilities to enhance students' adaptability and mastery of new media

technologies. Journalism education institutions should actively establish partnerships with the industry to create opportunities for journalism students to showcase their talents, thereby promoting the sharing of resources between academia and practice. For instance, the School of Journalism and Communication at Jilin University has formed a strategic partnership collaboratively constructing a platform that integrates industry, education, and research.

10.2. Skill Development

To ensure that journalism education remains at the forefront of the industry, students must master a set of new skills and competencies that are not just tools for responding to current changes in the journalism environment but are also key elements for adapting to the ever-evolving media ecosystem in the future.

10.2.1 Technical Literacy and Programming Skills

In the context of the growing prevalence of AI and automation technologies, journalists should possess basic programming skills and technical literacy to understand and use news automation tools, participate in data journalism production, and even develop new digital news products [19]. This technical capability not only enhances the efficiency of news production but also provides journalists with greater creative space and innovation potential.

10.2.2 Data Analysis and Interpretation Skills

With the rise of data-driven journalism, data analysis skills have become a core competency for journalists. Future journalism professionals need to master how to collect, analyze, and interpret complex data and be able to translate this data into valuable news stories [20]. This requires students to have not only technical data processing skills but also a sense of newsworthiness and analytical abilities to tell in-depth and influential stories through data.

10.3. Ethics and Critical Thinking

In a highly technical journalism production environment, ethical issues and critical thinking skills are particularly important. Students should not only learn how to use technical tools but also master how to maintain the truthfulness, fairness, and social responsibility of journalism in a rapidly changing technological environment [21]. Strengthening ethics education will help students make judgments in line with journalistic ethics when faced with AI-driven news production and automated writing, avoiding news reports being manipulated or misled by algorithms.

11. Conclusion

11.1. Research Contributions

This study conducts an in-depth analysis of the integration of AI and educational technology within the field of Chinese journalism education, highlighting the necessity and urgency of modernizing educational content and skill development in the digital era. Through a comprehensive review of existing literature and case studies, this research identifies key aspects such as the modernization of educational content, the diversification of skill development, and the integration of technology and humanities. The conclusions drawn from this study aim to better equip Chinese journalism education to meet the demands of the digital age, fostering media professionals with a strong sense of responsibility, critical thinking, and innovative capabilities, thereby leading the future development of the media industry in China.

11.2. Research Limitations and Future Research Directions

This study inevitably has some limitations that will be addressed and expanded upon in future research. First, the literature and case analyses involved have certain limitations and do not cover all relevant studies. Second, as AI technology is rapidly evolving, the research outcomes and conclusions

presented may not fully encompass the latest developments. Finally, due to the scope of the study, other important topics in journalism education, such as interdisciplinary integration and the evolving role of educators, have not been fully explored.

To address these limitations, future research can adopt a broader perspective to gain a more comprehensive understanding of the practical applications of AI technology in various educational systems. This will facilitate the continuous optimization and innovation of journalism education models, making them better suited to the evolving trends and demands of the media industry.

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