

New Mission of University Foreign Language Education in the Era of Educational Intelligentization: Inheriting the Excellent Traditional Chinese Culture

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Abstract: In the era of educational intelligentization, inheriting the excellent traditional Chinese culture has become an important mission in China's higher education. The purpose of this research is to study how to inherit the excellent traditional Chinese culture with the empowerment of AI in the field of university foreign language education. The literature research method is adopted to find wide support for the present study by reviewing the existing research in foreign language education, culture, and AI. This article points out the connotation and distinctive characteristics of the excellent traditional Chinese culture, analyzes its contemporary significance, and finds out pathways of leveraging AI to inherit the culture, including reshaping the educational goal of foreign language education, creating AI-empowered bilingual courses on the culture, innovating teaching methods, reforming the evaluation mechanism, and building a high-quality team of culture teachers. These pathways can comprehensively nurture the "foreign language+culture+AI" type of culture inheritors needed by the new era.

Keywords: Educational Intelligentization; Foreign Language Education; Artificial Intelligence; Excellent Traditional Chinese Culture; Culture Inheritors

1. Introduction

The excellent traditional Chinese culture represents the wisdom and quintessence of Chinese civilization, serving as the root and soul of the Chinese nation, as well as the internal ideological source and spiritual

impetus for its development. Currently, inheriting and promoting this culture has emerged as a mission of the new era for the advancement of the Chinese nation. As a valuable cultural and spiritual treasure of the Chinese nation, it holds immense significance in nurturing and enhancing students' ideological, cultural, moral, and aesthetic qualities in the educational field [1]. Therefore, foreign language education should undertake the significant task and actively transmit this culture from generation to generation.

As China embarks on the era of educational informatization, the "Education Informatization 2.0 Action Plan" (hereinafter referred to as "Informatization 2.0"), issued by the Ministry of Education in 2018, has ushered in the intelligentization era of higher education. With the rapid development of artificial intelligence (AI), China's higher education has entered the "AI+Smart Education" era. Generative Artificial Intelligence (GenAI), noted for its catalyzing and creating capabilities, is profoundly impacting and transforming foreign language education, emerging as a pivotal driver for fostering high-quality development in this field and shaping new paradigms and forms of foreign language education. In the educational intelligentization era, a key indicator of high-quality development in foreign language education is inheriting the excellent traditional Chinese culture. Consequently, the question of how to better inheriting the culture by AI has become a crucial research topic that cannot be overlooked in foreign language education in this new era.

2. Literature Review

The inheritance and promotion of the excellent

traditional Chinese culture is imperative [2,3]. Serving as the root and soul of the Chinese nation, the excellent traditional Chinese culture is the spiritual lifeblood of the Chinese people and constitutes a vital source for nurturing social values. With the embodiment of philosophic ideas and thinking patterns of the Chinese people, the excellent traditional Chinese culture is considered as a unique component of China's cultural soft power. Furthermore, this culture, as a cultural fountainhead of the Chinese nation, can contribute Chinese wisdom and solutions to the world's problems [4]. Despite the widespread acknowledgment of its significance in current research, many studies fail to provide a clear definition about the excellent traditional Chinese culture, offering only occasional and somewhat one-sided references.

Currently, research on the excellent traditional Chinese culture is conducted primarily in the fields of politics and culture, with relatively scant attention given to foreign language education. In the field of cultural studies, for the cultural dissemination, AI enhances the speed and quality of content production related to the excellent traditional Chinese culture, enabling precise control over the depth and breadth of cultural content. This, in turn, facilitates the protection, inheritance, and international dissemination of the excellent traditional Chinese culture [5].

In the field of foreign language education, research on the excellent traditional Chinese culture mainly centers on its significance [4, 6,7], the existing cultural education in universities [8-10], and general strategies for integrating it into conventional foreign language education [7,8,10]. Inheriting and promoting the excellent traditional Chinese culture is the contemporary mission of foreign language education, and a strategic approach to fulfilling the fundamental task of fostering the virtues of foreign language learners in China. The endeavor in learning this culture facilitates its international dissemination and safeguards its security [4]. Nevertheless, the dominance of the Western culture in the textbook content, coupled with the absence of the excellent traditional Chinese culture in the content [11], the relatively low level of the traditional cultural literacy for foreign language teachers, the unfounded curriculum

implementation, and the inappropriate evaluation criteria, have caused students' cultural value deficiencies and neglect of the Chinese culture studies, which manifest as severe cases of Chinese Cultural Aphasia [11,12] and hinder the dissemination of the excellent traditional Chinese culture.

Scholars have proposed various suggestions and countermeasures in response to the current state of the excellent traditional Chinese cultural education. In the foreign language education, there is a pressing need to refine objectives for cultivating talents [4], reform curriculum designs [7,11], increase the Chinese culture course taught in English [11], and instill a sense of national identity in foreign language teaching [4]. Moreover, it is crucial to nurture and embody the social values [10], cultivate students' cross-cultural awareness, and engage them in learning and practical activities aimed at fostering traditional virtues [11]. Efforts must also be made to enhance teaching methods and reform evaluation systems [4,7]. Additionally, foreign language teachers should improve their proficiency in the excellent traditional Chinese culture and strengthen their professional ethics and conduct, and uphold correct cultural values [10].

AI has expedited the progress of educational informatization, facilitating foreign language education. Informationization 2.0 underscores the development and application of intelligent technology, intelligent education, and smart education, necessitating a profound integration of information technology and education [13]. The intelligentization era has the potential to transform the paradigm of foreign language education, but ultimately, technology-empowered foreign language education should revert to the core of education [14]. Talent cultivation in educational informatization emphasizes educational equity, innovation-driven development, and student-centered education [15], prioritizing learning and competence [13]. It aims to foster students' creativity, critical thinking, and intercultural communicative competence [14], among other skills. A new paradigm, integrating intelligence and humanization, genuinely promotes personalized and lifelong learning among students [13,16]. Intelligent foreign language education necessitates developing the

information literacy of both teachers and students, enabling intelligent integration and analysis of big data pertaining to textbooks, teaching processes, and teaching evaluations [17]. In foreign language education, AI can contribute to the learning and creative inheritance of the excellent traditional Chinese culture. However, to date, very little research has been conducted concerning the application of AI in inheriting the culture within the field of foreign language education.

3. What is the Excellent Traditional Chinese Culture?

3.1 Connotation of the Excellent Traditional Chinese Culture

To gain a deeper understanding of the connotation of the excellent traditional Chinese culture, it is necessary to explore it from both narrow and broad perspectives. The excellent traditional Chinese culture is narrowly defined as one type of culture which specifically contains the outstanding facets of literature, art, customs, and traditions in the Chinese history. In a broad perspective, the excellent traditional Chinese culture is the entirety of material and spiritual wealth accumulated over the whole Chinese history, encompassing the superior aspects of the holistic lifestyle of the traditional Chinese society. This includes, but is not limited to, exemplary ideological concepts, moral ethics, national spirit, language, institution [18], behavior patterns, artifacts [18], discoveries, inventions, historic buildings, and classical literature. It spans across various domains of social life such as politics, economics, philosophy, morality, law, education, medicine, technology, and art. It constitutes a unique and classical culture system of the Chinese nation [19], with its core embodied in three primary aspects, ideological concepts, humanistic spirit, and moral norms [5].

The excellent traditional Chinese culture has a subtle yet profound influence on the thinking patterns and behaviors of the Chinese people, shaping the cultural memory, national temperament, psychology, character, and spirit of the whole Chinese nation [19]. It fosters unity among the Chinese people and drives the development and progress of the Chinese society. As the shared ideological foundation of the Chinese nation, the excellent traditional

Chinese culture serves as the enduring root and soul of the Chinese nation's vitality. It represents the cultural heritage and genetic code that must be passed down from generation to generation. Furthermore, this culture provides a profound foundation upon which rests firmly China's confidence in its path, theory, institution, and culture.

3.2 Distinct Characteristics of the Excellent Traditional Chinese Culture

Firstly, It has a profound historical foundation. The excellent traditional Chinese culture has been forged over the course of more than five thousand years of Chinese history, enduring and thriving throughout.

Secondly, it boasts a clear continuity. Thanks to the diligence and bravery of the Chinese people, as well as the enduring influence of three core principles, that is, the people being the foundation of the state, pursuing reform and renewal, and maintaining harmony among all countries, the excellent traditional Chinese culture has been able to persist to today without disruption [20].

Thirdly, it has vast and profound content. In terms of content, the excellent traditional Chinese culture contains numerous specific elements of both rich material culture and profound spiritual culture, which together constitute an extensive, profound, excellent, and unique traditional cultural system of the Chinese nation.

Fourthly, it exhibits diversity in form. The forms of existence of the excellent traditional Chinese culture are diverse, ranging from concrete and tangible ones such as outstanding historic relics, antiques, ancient books and documents, customs, and behavior patterns, to abstract and intangible ones such as institutions, ways of thinking, values, spirits, and traditional concepts. The abstract and intangible aspects of the excellent traditional Chinese culture are manifested through concrete and tangible material existence, ensuring its transmission from generation to generation.

Lastly, it demonstrates great inclusiveness. The excellent traditional Chinese culture is composed of the multi-ethnic cultures rooted in the ancient Chinese society, drawing on the strengths of various cultures while actively absorbing foreign cultures, embracing and integrating them, thereby facilitating the

exchange and integration of diverse cultures.

4. The Contemporary Significance of the Excellent Traditional Chinese Culture

4.1 Address the Prevalent Issue of Cultural Aphasia in Foreign Language Education

Culture learning has long been an integral part of foreign language learning in China. For university students who have already formed their unique worldviews and values, their need for cultural learning in foreign language education exceeds the acquisition of mere language knowledge and skills. Nevertheless, culture learning in foreign language education often places undue emphasis on foreign cultures while neglecting systematic learning of Chinese culture, particularly the study of the excellent traditional Chinese culture. This has led to a severe case of Cultural Aphasia in China's foreign language education [11,12], which means that the Chinese culture cannot be adequately expressed in foreign languages. This has been a pervasive issue in foreign language education for a long time and, if left unchanged, will undoubtedly worsen. Foreign language learners constitute one of the key groups in inheriting and promoting the excellent traditional Chinese culture. Their culture learning in foreign language courses enables them to gain a comprehensive and profound understanding of the culture, enhancing their comprehension, appreciation, and ability to articulate the excellent traditional Chinese culture, thereby addressing the issue of Cultural Aphasia.

4.2 Enhance Cultural Confidence

Cultural confidence stands as the most fundamental, profound, and enduring force in the development of a country or a nation [21]. It is essential for the modernization of China in the new era [22] as well as cultural prosperity. The advanced culture can be established on the foundation of inheriting the excellent traditional Chinese culture. Imbuing students with a strong cultural foundation in the new era holds significant importance for excellent traditional Chinese culture. By studying excellent traditional Chinese culture, students can undergo a transformation from cultural understanding and identification to cultural confidence through cultural immersion. In the realms of foreign language learning and

cross-cultural communication, regardless of the ideological impacts they may encounter, they will uphold their national cultural consciousness, firmly believing that excellent traditional Chinese culture ranks among the most outstanding cultural forms in the world. This fosters emotional resonance among the Chinese nation and enhances its unity and centripetal force.

4.3 Better the International Dissemination of the Chinese Civilization

The excellent traditional Chinese culture is a core component of Chinese civilization and holds a significant place within the broader tapestry of world civilizations. Being the agents in the international dissemination of the excellent traditional Chinese culture, foreign language learners also carry the important mission of promoting Chinese civilization globally. The culture learning can foster students' capabilities in effective cross-cultural communication [23] and familiarize themselves with the traditional culture of the Chinese nation [24]. This will better harness the infectious charm and appeal of the excellent traditional Chinese culture, thereby elevating its international dissemination and influence. By studying and inheriting the culture, foreign language learners can enhance their proficiency in resolving cultural conflicts in international cross-cultural communication, effectively narrating Chinese stories, and spreading Chinese culture and voice in the world. This contributes to showcasing the unity, innovation, affinity, and influence of the Chinese civilization, and bolstering its dissemination around the world.

5. Paths for Inheriting the Excellent Traditional Chinese Culture in Foreign Language Education in the New Era

5.1 Reshape Educational Objectives in Foreign Language Education to Cultivate the "Foreign Language + Culture + AI" Type of Culture Inheritors

In contemporary times, the emphasis of foreign language education is transitioning from language communicative functions to cultural functions. The aim of talent cultivation is shifting from emphasizing academic success to focusing on overall personal growth, and the talent cultivation

model is evolving from a focus on foreign language skills to that on humanistic and interdisciplinary competencies [4]. Consequently, traditional foreign language education that solely prioritizes English knowledge and skills can no longer fully meet the demands of foreign language education development in the new era.

The educational objective is a pivotal guide for foreign language education in any university. In this new era characterized by AI, to better inherit and promote the excellent traditional Chinese culture, foreign language education should attach importance to culture education with the aid of AI and actively reshape the educational objectives of foreign language education by integrating culture learning and AI learning into it. Thus, the new educational goal in the foreign language field is to cultivate the “foreign language+culture+AI” type of the excellent traditional Chinese culture inheritors.

In the age of AI, to qualify as an inheritor of the excellent traditional Chinese culture, one must possess the comprehensive literacy related to foreign language, the culture and AI. For foreign language learners, these comprehensive competencies encompass four dimensions: virtues, knowledge, abilities, and emotions. In terms of virtues, they include the excellent traditional Chinese virtues [25,26], modern social virtues, and global civic virtues [25]. In terms of knowledge, they specifically encompass knowledge of the excellent traditional Chinese culture, bilingual knowledge in English and Chinese, expertise in AI, and other interdisciplinary knowledge. The abilities specifically refer to the capacity to leverage AI to understand and appreciate the culture, disseminate and innovate upon it, engage in personalized learning, and communicate across cultures. In terms of emotions, they encompass firm cultural confidence and a positive attitude towards the excellent traditional Chinese culture shown by love of the culture, respect for the culture, proactive learning of the culture, and a willingness to transmit it. In the new era, foreign language education should prioritize the cultivation of students’ comprehensive literacy in the excellent traditional Chinese culture, and utilize AI to integrate rich elements of this culture into all foreign language curricula.

5.2 Construct AI-empowered Bilingual Courses on the Excellent Traditional Chinese Culture

Employing AI to develop new curricula is the future trend of higher education development. AI enables teachers to create new courses on the excellent traditional Chinese culture by integrating multidisciplinary knowledge into a coherent and comprehensive knowledge system. Foreign language education needs to establish the AI-empowered bilingual courses on the excellent traditional Chinese culture. This facilitates personalized and lifelong learning of the culture. In comparison to traditional culture courses, AI-empowered bilingual courses exhibit distinct characteristics, namely, being intelligent, personalized, efficient, interdisciplinary, and bilingual.

Constructing AI-empowered bilingual courses on the excellent traditional Chinese culture needs a vast array of intelligent teaching resources. The big data analysis and machine learning technologies within AI models can be leveraged to transform ancient books, literature, artworks, and other excellent traditional culture resources into digital formats through intelligent scanning, recognition, and conversion. These resources are then presented in diverse forms, including text, images, audio, and video to boost students’ interest and engagement in culture learning. To obtain the teaching effect, the course should emphasize the educational significance of these resources. By seamlessly integrating the elements of the excellent traditional Chinese culture into the course, and placing emphasis on moral education, the course helps foreign language learners enhance their culture literacy. Moreover, the course strives to assist students in deeply appreciating the unique historical depth, richness, and familiarity of the excellent traditional Chinese culture [19], encouraging them to actively embrace the traditional Chinese values. This, in turn, fosters their adherence to the traditional Chinese virtues such as benevolence, integrity, justice, self-improvement, filial piety, and respect for elders, as well as instills in them a patriotic spirit characterized by courage, dedication, and a willingness to contribute. Ultimately, by learning this course, students can achieve both

internalization and externalization of the culture.

Building AI-empowered bilingual courses on the excellent traditional Chinese culture requires innovative and intelligent teaching activities. In order to stimulate students' learning interest and innovative thinking, and improve the effectiveness of cultural education, AI can be utilized to design diverse and interactive teaching activities, such as writing poems, having culture debates, translating ancient books, making short videos about culture, etc., in which students are encouraged to recreate and reinterpret the excellent traditional Chinese culture elements.

By using virtual reality (VR) technology, augmented reality (AR) technology, and mixed reality (MR) technology, virtual scene activities can be designed to help students visit traditional cultural environments and scenes such as ancient buildings, museums, or historical sites, experience the charm of traditional culture firsthand and enjoy immersive experiences in learning the culture. AI can be applied in designing exploratory learning activities. Interactive touch screen technology, intelligent speech recognition, and intelligent dialogue are conducive for students to obtaining effective human-computer interaction which allows them to freely explore the origin and development of the excellent traditional Chinese culture, the profound philosophy behind each cultural phenomenon, the relationship between each cultural element, and the specific role of each cultural element in the development history of the Chinese civilization. In the design of exploratory learning activities, for abstract concepts in the culture course, students are encouraged to use GenAI to achieve concretization of abstract concepts and deepen their understanding of them.

5.3 Innovate Culture Teaching Methods

AI application into teaching represents a current and future development trend, and an inevitable requirement in the convergence of AI and higher education. In foreign language education, incorporating the excellent traditional Chinese culture into university curricula necessitates a shift from conventional teaching methods towards the establishment of AI-empowered multimodal teaching method tailored for the culture.

The AI-empowered multimodal teaching method for the excellent traditional Chinese culture emerges as a novel teaching paradigm in the age of AI. Building upon traditional multimodal teaching, during the teaching process of the excellent traditional Chinese culture, this new teaching method harnesses AI to integrate all multimodal information elements including text, symbols, images, sounds, actions, facial expressions, emotions, and more into a coherent and highly effective means of expressing and communicating meaning. This method guides students in constructing and conveying meaning through multimodal means, thereby fostering the comprehensive development of their cultural literacy in the excellent traditional Chinese culture. With the rapid advancement of AI technology, GenAI empowered by robust computing capabilities and natural language processing (NLP) technology can automatically and swiftly generate diverse content formats, encompassing text, images, audio, videos, and more. This provides immense potential for revolutionizing multimodal teaching. The application of AI in multimodal teaching in the excellent traditional Chinese culture allows for the efficient utilization of multimodal resources, ultimately enhancing the efficacy of cultural education.

The AI-empowered multimodal teaching method for the excellent traditional Chinese culture promotes the adoption of personalized cultural instruction. Firstly, personalized cultural instruction genuinely centers on learners, emphasizes students' individual learning styles, and guarantees the precision and timeliness of teaching. Leveraging GenAI, coupled with big data analysis and machine learning techniques, teachers can optimize cultural content and tailor personalized learning pathways for students, thereby addressing the issue of "one-size-fits-all" in cultural instruction and truly achieving tailored teaching [27]. Guided by the overall objective of curriculum education, and based on students' abilities, personal learning needs, and interests, AI can be harnessed to assist students in setting specific, attainable overall learning goals and phased learning objectives. It can also automatically generate diverse and targeted learning resources and flexibly recommends learning activities that cater to

students' cultural cognition levels, facilitating the holistic development of their cultural literacy at the fastest pace and with optimal outcomes. Secondly, personalized cultural instruction necessitates innovative forms of communication and interaction.

Given the diverse and advanced service capabilities that AI chatbots can offer to foreign language education, including providing situational Q&A [28], engaging in in-depth dialogue negotiations [29], and enhancing learners' emotional experiences and cognitive outcomes [30], AI-empowered multimodal teaching of the excellent traditional Chinese culture can fully leverage the roles of AI chatbots like ChatGPT, DeepSeek, Kimi, Gemini, Doubao, and ERNIE Bot, and so forth. Students are encouraged to engage in deep interactions with these AI chatbots through human-computer collaboration and co-creation to tackle the challenges in learning the excellent traditional Chinese culture and enhance their cultural learning effectiveness. By Artificial Intelligence Generated Content (AIGC) which can automatically produce multimodal content spanning text, images, audio, video, and 3D models, students can create highly simulated digital humans [31], such as historical and fictional figures. By integrating emotional AI, natural interaction, and biosensors, these digital humans can be endowed with the capacity to perceive and express emotions [31], thereby enabling cultural learners in the real world to engage in emotional exchanges across time and space with Chinese historical and fictional figures.

The adoption of AI-empowered multimodal teaching method for promoting the excellent traditional Chinese culture necessitates not only a change in the traditional teaching paradigms and management styles, but also a proper understanding of the role and significance of AI in cultural instruction. Firstly, teachers should perceive AI as an highly efficient assistant in teaching the excellent traditional Chinese culture who can improve lesson preparation, classroom efficiency, and educational outcomes. Secondly, AI should be regarded as a mentor for culture teachers who seeks to deepen teachers' understanding of the traditional Chinese culture and facilitate their cultural studies and research, particularly in the

systematic learning of interdisciplinary knowledge. Thirdly, teachers should view AI as a collaborator in human-computer co-creation and recognize that cultural instruction and research need collaborative endeavors involving both human and machine, characterized by cooperation, co-creation, and shared learning. Lastly, the ultimate goal of AI-enhanced cultural education is to increase the quality of educational services and teaching effectiveness. Despite the robust self-learning capabilities of AI, teachers in real-world settings must exercise vigilance in overseeing AI-generated ideas and conclusions when teaching the excellent traditional Chinese culture. They should assume the role of final decision-makers in the utilization of AI, maintaining an active stance, critically evaluating all AI-generated content, resisting the temptation to blindly follow AI guidance, and always keeping alert to its potential manipulation.

5.4 Create a New Evaluation Mechanism

The establishment of a new evaluation mechanism must adhere to national guidelines. As inheriting the excellent traditional Chinese culture is a pivotal cultural development strategy in China with profound significance, the comprehensive evaluation mechanism for this culture should be formulated by relevant national institutions. These institutions should consider the overall situation and the requirements for inheriting the excellent traditional Chinese culture in the new era when establishing overarching evaluation guiding principles and methods. Guided by these national principles and methods, all educational institutions should develop comprehensive evaluation mechanisms tailored to their specific circumstances for assessing the cultural literacy. This approach will encourage the entire society to prioritize the study and inheritance of the excellent traditional Chinese culture.

To enhance the role of assessments in promoting the study and inheritance of the culture, the culture elements and AI literacy should be integrated into high-stakes foreign language proficiency tests in China, including the College English Test (CET), and the Test for English Majors (TEM), as well as assessments of all foreign language courses. Furthermore, it is advisable to develop a

national examination specifically designed to assess the comprehensive literacy in the excellent traditional Chinese culture. By thoroughly evaluating the level of students' comprehensive literacy in the new era, this examination aims to foster their enthusiasm for cultural learning, nurture their abilities to inherit innovate the culture with AI technologies, and cultivate their cross-cultural communicative competence.

The rapid advancement of AI offers boundless opportunities for personalized assessment of the comprehensive literacy in the excellent traditional Chinese culture. This personalized assessment leverages AI technology to create a holistic individual profile for foreign language learners. These individual profiles encapsulate static attributes such as age, gender, educational background, learning interests, and learning methods, as well as dynamic attributes composed of culture learning paths, values, virtues, culture knowledge, comprehensive abilities, and emotional development paths. Massive data serve as a prerequisite for personalized assessment of the excellent traditional Chinese culture. AI technology can efficiently gather, analyze, and provide feedback on vast amounts of these data. Different types of multimodal data, including text, behavioral, psychological, and environmental data, can be collected through means such as classroom recordings, online interactions, and virtual practices. In analyzing the multimodal data, technologies such as NLP, computer vision, and speech analytics are employed to gauge the depth of students' understanding about cultural elements, assess their attitudes and emotions towards culture content, and analyze their psychological shifts during the process of culture learning.

In terms of data feedback, given that the Knowledge Graph (KG) is an exceptionally powerful organizer, manager, and communicator of resources and information [32], the evaluation results of the comprehensive literacy in the excellent traditional Chinese culture can be rapidly formulated using KG tools. These tools enable the creation of a structured, detailed, and visual representation of an individual learner's cultural literacy map, comprehensively illustrating the interplay among their cultural cognition, value identification, AI literacy, cultural innovation, cultural dissemination, and

bilingual abilities. Based on the behaviors of culture learners, their cultural literacy growth paths can be dynamically updated. Furthermore, tailored culture learning resources and activities can be recommended for learners according to the analysis of their cultural literacy maps which can guide further development of their personalized culture learning.

To guarantee the comprehensiveness and thoroughness of the assessment for the comprehensive literacy in the excellent traditional Chinese culture, the new evaluation mechanism must take into account not only learners' performance in the classroom but also their behaviors in their daily lives after class. Continuous tracking surveys of students' career choices can be conducted in order to observe and evaluate the long-term effect of the inheritance of the excellent traditional Chinese culture [4].

To better preserve all evaluation outcomes, the new evaluation mechanism requires the establishment of personalized e-archives which make full use of AI technology to construct a comprehensive, dynamic, and secure personal data management system for each culture learner. These e-archives will meticulously document the results of the assessment for the comprehensive literacy in the excellent traditional Chinese culture. All the assessment results can function as a reliable foundation and pivotal reference for activities such as moral evaluations, and further learning after graduation.

5.5 Foster a High-quality Teaching Group

Teachers provide the key support for building a culturally and scientifically strong country. Amidst the fast development of educational intelligentization, the integration of AI with foreign language education in higher education has become increasingly seamless. Therefore, foreign language education should take this opportunity to cultivate foreign language teachers into a high-quality teaching group with comprehensive literacy in the new era.

Firstly, high-quality teachers should embody noble teaching ethics. Teachers have traditionally been hailed as the engineers of the human soul who should focus on the learning and teaching of morality [33]. High-quality culture teachers must first possess noble teaching ethics and a profound

sense of patriotism. With a broad vision and an open mind, they are capable of understanding and grasping the overall situation of the country, contributing their wisdom and strength to its prosperity and vitality. They should also harbor deep love for their country and its people, demonstrating an emotional commitment to caring for and dedicating themselves to the well-being of both. When teaching the excellent traditional Chinese culture, teachers with noble teaching ethics are passionate about education, prioritizing moral education as their fundamental educational mission. They always adhere to moral self-cultivation, diligently engage in teaching, show willingness to dedicate themselves, nourish students' thoughts and souls with their virtuous qualities, subtly influence students' words and actions, assist students in shaping characters, and cultivate excellent virtues such as patriotism, integrity, unity, diligence, and bravery.

Secondly, teachers must possess AI literacy. The AI literacy of university teachers is defined as the specialized knowledge and skills pertaining to AI applications that are essential for them to excel in teaching, research innovation, social services, and cultural preservation in the age of intelligentization [34]. It includes the educational philosophy in the age of intelligentization, fundamental understanding of intelligent education, human-machine collaborative teaching competence, digital intelligence-driven research innovation, and the human-centered value of technology for bettering human society. Teachers of the excellent traditional Chinese culture in foreign language education should actively transform their roles, embrace AI technologies and consciously enhance their AI literacy. To ensure the effectiveness of AI in promoting culture teaching and supporting teachers' personalized growth, universities should provide adequate technical support and resources, such as customized AI platforms for both culture teaching and foreign language teaching. They are also advised to organize diverse technical training programs centered around foreign language, excellent traditional Chinese culture and AI. Additionally, because project-based learning is an effective means for learners to improve their practical abilities, teachers of the excellent traditional Chinese

culture can make full use of project-driven approaches to develop their abilities of applying AI in culture teaching. By hosting or participating in educational reform or research projects like "foreign language+culture+AI" integration, "culture+AI" integration, or "foreign language+AI" integration, teachers can carry out targeted professional teaching practices and explore innovative research paths in integrating AI, thereby enhancing their interdisciplinary educational and research capabilities.

6. Conclusion

In China, it is a cultural imperative for foreign language education in the new era to inherit the excellent traditional Chinese culture. Foreign language teachers ought to prioritize the integration of education on this culture with AI application. Efforts should be made to actively reconstruct the teaching objectives of foreign language education, leveraging AI to develop innovative intelligent culture curricula, reform teaching methods, and devise a novel evaluation mechanism. Additionally, a high-quality teaching group specializing in culture education should be established. These endeavors facilitate the enhancement of foreign language learners' overall literacy in the excellent traditional Chinese culture, bolster their cultural confidence, amplify the effectiveness of culture instruction for teachers, and comprehensively nurture the "foreign language+culture+AI" type of culture inheritors required by the new era.

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