

Research on Classroom Revolution of Foreign Language Major in the Context of Artificial Intelligence

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Abstract

The rapid advancement of artificial intelligence technology has injected new momentum into the innovative transformation of foreign language classroom teaching, while also raising higher requirements for talent cultivation in the new era. Traditional foreign language classrooms face challenges such as rigid teaching models, lack of personalized guidance, insufficient cross-cultural practice scenarios, and monotonous evaluation systems, making them ill-suited for digital-era language education needs. Based on the application characteristics of AI technology, this study explores practical strategies from four perspectives: teaching models, content construction, practical training, and evaluation systems. The aim is to reconstruct the teaching ecosystem of foreign language classrooms, diversify teaching implementation approaches, and promote the comprehensive development of students' core competencies in language application and cross-cultural communication. This research provides valuable insights for the digital transformation of foreign language education.

Keywords

Artificial intelligence; Foreign language major; Classroom revolution.

1. Introduction

The core mission of modern foreign language education lies in cultivating versatile professionals with solid linguistic proficiency, global perspectives, and comprehensive practical skills. Digitalization and intelligent technologies have become inevitable trends in this field. AI's technical advantages—such as big data analysis, personalized recommendations, and immersive simulations—effectively address the challenges of traditional foreign language teaching, providing innovative technical support and practical pathways for classroom model innovation, content expansion, and efficiency enhancement. Foreign language educators should proactively seize the opportunities brought by AI, break through traditional teaching boundaries, explore effective ways to deeply integrate technology with instruction, and drive the transformation of foreign language education from knowledge transmission to competency cultivation. This will enable intelligent technologies to truly become a powerful catalyst for high-quality development in foreign language teaching.

2. Intelligent Teaching Model, Reconstructing Classroom Teaching Ecology

The deep integration of artificial intelligence into foreign language teaching models effectively breaks the time-space constraints and pedagogical boundaries of traditional classrooms, transforming the teacher-student dynamic from one-way lecturing to interactive, student-driven exploration [1]. Teachers can leverage AI technology to build blended online-offline teaching platforms, enabling efficient integration and targeted delivery of diverse educational resources. Students, meanwhile, can engage in personalized self-directed learning tailored to

their academic foundations and progress needs. This shift redefines classroom functions as centers for problem-solving, cognitive guidance, and skill development. Within this intelligent educational environment, teachers and students achieve synchronized learning and teaching, resulting in dual enhancements in both instructional efficiency and learning experience.

In daily teaching practice, educators can utilize smart education platforms to create blended foreign language classrooms combining online and offline learning. Before class, teachers upload preparatory materials, vocabulary audio recordings, grammar micro-lectures, and other learning resources to the platform. The AI system analyzes students' pre-class data through big data, accurately identifying knowledge gaps such as weak vocabulary mastery or grammatical comprehension errors, then provides feedback to teachers. Based on this analysis, teachers design classroom content to focus more on targeted explanations and interactive exercises addressing these weaknesses, rather than repetitive repetition of basic knowledge. During lessons, AI-powered interactive tools enable real-time Q&A sessions, group competitions, and situational dialogues. The system continuously records and evaluates students' classroom performance, allowing them to promptly track their learning progress. After class, the AI system assigns personalized review tasks and extension exercises—such as customized vocabulary memorization plans for students with weak vocabulary, or individualized speaking drills and pronunciation correction exercises for those with limited oral skills. The system automatically grades completed exercises with detailed analysis and improvement suggestions. Teachers use the platform to monitor students' post-class learning progress and provide targeted online tutoring for struggling learners, creating a closed-loop system in foreign language education. This approach truly achieves the teaching goals of "teaching based on learning" and "tailored instruction" through the integration of online and offline learning.

3. Intelligent Construction of Teaching Content, Expanding the Dimension of Language Learning

Artificial intelligence technology endows foreign language teaching content with intelligent features, breaking through the inherent limitations of textbooks and enabling dynamic updates and diversified expansion of teaching materials [2]. Teachers can leverage AI to integrate vast multimodal foreign language resources, incorporating current affairs, foreign literature, film clips, and international business cases into classroom instruction, ensuring content remains closely aligned with societal development and practical needs. Meanwhile, AI systems can precisely filter and categorize teaching resources based on students' academic focus and learning requirements, exposing them to more targeted and practical materials. This approach facilitates the transition of language learning from textbook knowledge to real-world application, and from single-language input to multi-dimensional language comprehension and usage.

English faculty can leverage AI-powered resource integration platforms to develop customized teaching frameworks tailored to students' specialized fields (e.g., literature, translation, business English). For literature majors, educators systematically curate resources including excerpts from classic foreign literary works, expert analysis videos, and foreign literary critiques. These materials are integrated into classroom instruction to guide students in exploring the linguistic features and cultural depth of foreign literary works. By utilizing AI-powered text analysis tools, students conduct quantitative assessments of narrative structures and stylistic elements, thereby enhancing their literary appreciation and textual analysis skills. For translation majors, AI translation platforms are employed to compile diverse translation materials (e.g., news translations, business contract translations, literary works translations). Students engage in classroom translation practice, with systematic multidimensional analysis of their translations. Feedback is provided on vocabulary selection, sentence structure, and

register adaptation, while comparing machine translation with human translation to help students evaluate the strengths and limitations of machine translation, thus improving their translation techniques and critical thinking abilities. For business English majors, AI technology integrates real-world cases such as international business negotiations, foreign trade correspondence, and cross-border e-commerce operations. This approach incorporates English expressions and communication strategies from business scenarios into classroom teaching, enabling students to learn professional English vocabulary and sentence structures in simulated business contexts, thereby enhancing their practical business English proficiency. Furthermore, teachers can utilize AI's real-time information push feature to incorporate the latest international political and business updates into classroom teaching. This approach enables students to learn languages while gaining insights into global affairs and industry trends, thereby broadening their international perspectives.

4. Practice Scenario of Intelligent Creation, Deepening Cross-cultural Communication Ability

Artificial intelligence technology creates intelligent cross-cultural communication practice scenarios, effectively addressing the lack of practical settings and experiential depth in traditional foreign language classrooms. By leveraging AI-powered virtual reality and augmented reality technologies, teachers can design immersive cross-cultural communication environments that allow students to experience diverse cultural customs, linguistic expressions, and social etiquette firsthand. Through authentic language exchanges and cross-cultural interactions in these immersive settings, students can significantly enhance their language proficiency and cross-cultural sensitivity, gradually developing awareness and capabilities in intercultural communication. This approach allows foreign language learning to truly return to its essence of linguistic exchange and cultural dialogue.

In teaching intercultural communication courses, educators can utilize VR/AR technology to create diverse practical scenarios for students, such as international business negotiations, overseas study exchanges, and cross-cultural festivals. During international business negotiation simulations, students enter highly realistic negotiation environments through VR devices, engaging in real-time interactions with virtual foreign counterparts. These virtual counterparts respond in ways that align with their cultural backgrounds—Western negotiators tend to prioritize direct communication, while some Eastern counterparts adopt more reserved approaches. Students must flexibly apply their business English knowledge while considering cultural customs and negotiation styles, adjusting communication strategies accordingly. For instance, they might use concise language when negotiating with Western companies but emphasize etiquette and tactful expressions when dealing with Japanese counterparts. AI systems comprehensively evaluate students' performance, assessing accuracy in language expression, appropriateness of communication strategies, and adherence to intercultural etiquette, while identifying issues like cultural taboos or inappropriate language use. Additionally, teachers can employ AI-powered voice interaction and facial recognition technologies to conduct intercultural simulation training. Students engage in cross-cultural dialogues with AI robots that accurately identify speech patterns, facial expressions, and body language, providing pronunciation corrections and guidance. Through repeated simulation exercises, students master intercultural communication skills and enhance their cross-cultural competence.

5. Establishing an Intelligent Evaluation System to Achieve Comprehensive Assessment of Competencies

The development of an AI-powered foreign language assessment framework serves as a critical foundation for holistic student competency evaluation. This system overcomes the limitations of traditional single-dimensional assessments, driving a shift toward diversified, process-oriented, and intelligent evaluation methods. AI systems comprehensively document and analyze students' learning journeys, establishing evaluation metrics across knowledge, skills, and competencies. By integrating formative and summative assessments, they provide real-time, detailed feedback that empowers students to identify gaps and enables teachers to refine instruction, thereby maximizing the diagnostic and pedagogical value of evaluation.

Teachers can leverage AI-powered evaluation platforms to establish a comprehensive assessment system covering the entire foreign language learning process. The evaluation framework encompasses multiple dimensions including language knowledge, practical application, intercultural communication, self-directed learning, and innovative thinking. The assessment methods integrate formative evaluation, summative assessment, student self-assessment, peer review, and teacher evaluation. In formative assessment, the AI system continuously tracks students' pre-class preparation, classroom interactions, post-class assignments, and self-directed learning activities, quantifying performance based on predefined criteria to clearly demonstrate students' learning progress at each stage. During summative assessment, teachers utilize AI-designed comprehensive tasks such as text translation, intercultural situational dialogues, and foreign language speeches alongside traditional written and oral exams. The system analyzes students' evaluation results from multiple dimensions and provides feedback. The platform also features self-assessment and peer review functions, enabling students to reflect on their performance against standards and evaluate peers within groups. Teachers combine the system's formative evaluation results, summative assessment scores, and student self-assessment with peer reviews to conduct comprehensive and objective evaluations of students' overall competencies. The AI platform generates personalized learning reports for each student, clearly identifying performance metrics, weak areas, and improvement suggestions. Students use these reports to develop learning plans, while teachers analyze class-wide evaluation reports to identify teaching challenges and optimize instructional strategies. This approach transforms evaluation into a bridge connecting teaching and learning, effectively enhancing students' comprehensive foreign language proficiency.

6. Conclusion

The integration of artificial intelligence technology has ushered in transformative opportunities for foreign language education, driving comprehensive reforms in teaching methodologies, content design, practical applications, and assessment systems. Educators must proactively embrace AI solutions, exploring innovative ways to integrate technology with language instruction. By continuously refining AI implementation strategies, we can harness this technology as a powerful catalyst for classroom innovation, advancing the quality of foreign language education. This approach will cultivate versatile professionals with solid linguistic expertise, global perspectives, and strong cross-cultural communication skills, equipping them to thrive in the new era.

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