

Research on Blended Teaching of College English under the Background of Artificial Intelligence

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Abstract

With artificial intelligence technology being applied in various fields, the reform of college English teaching supported by modern technology is urgently needed. Based on the blended teaching reform that shifts from "teacher-centered" to "student-centered", artificial intelligence technology has deepened the integration of technical means and teaching systems. This paper explores the role of artificial intelligence in blended teaching of college English, expounds its application in the design, implementation and evaluation of college English blended teaching, and looks forward to the application prospects. Artificial intelligence will further promote the optimization and innovation of blended teaching models and bring more possibilities and challenges to college English teaching.

Keywords

Artificial intelligence; Blended teaching; College English; Personalized learning.

1. Introduction

With the rapid development of science and technology, artificial intelligence technology has gradually become a key force leading the digital transformation. Its outstanding performance in language processing, data analysis and intelligent interaction has brought unprecedented reform opportunities for college English teaching. At present, the college English teaching is facing the great challenge of how to effectively integrate the new technology and improve the teaching quality and efficiency. The rise of artificial intelligence technology not only provides strong support for the innovation of teaching mode, but also provides new possibilities for personalized learning and intelligent evaluation.

Exploring the application of artificial intelligence in college English teaching has profound practical significance for improving the quality and efficiency of English teaching. Through research and practice, we can have a clearer understanding of how AI helps English teaching to be personalized and efficient, so as to meet students increasingly diverse learning needs. At the same time, this research will also strongly promote the process of information and intelligent education, provide useful reference for the reform and innovation of college English teaching, and lead education to a more intelligent and efficient future.

2. The role of AI in blended College English teaching

2.1. Overview of the blended teaching mode

Driven by artificial intelligence technology, the blended teaching mode has gradually become the new normal of college English teaching. The model combines the advantages of traditional face-to-face teaching with online education, aiming to provide a more flexible and personalized learning experience. It is characterized by the combination of the richness of online resources and the real-time offline interaction, which effectively makes up for the deficiency of a single

teaching mode. Compared with the traditional teaching mode, the blended teaching mode pays more attention to the main position of students and the leading role of teachers, and stimulates students interest in learning and improves the teaching effect through diversified teaching means.

2.2. The role of artificial intelligence in blended teaching

Artificial intelligence technology plays a pivotal role in the hybrid teaching mode. First of all, through big data analysis and other technical means, teachers can customize personalized teaching resources for students according to their learning habits and ability level, such as customized learning paths and exercises with moderate difficulty. Secondly, with the help of the interactive teaching platform, teachers and students can achieve more convenient and efficient communication and cooperation, breaking the limitation of time and space. Finally, the intelligent evaluation and feedback system can monitor students learning progress and effect in real time, provide scientific and objective teaching feedback for teachers, and help to timely adjust teaching strategies and optimize the teaching process.

3. Literature Exploration of Blended Teaching Mode Under The Background of Artificial Intelligence

3.1. Innovation points of teaching mode

Driven by artificial intelligence, the hybrid teaching model has shown unprecedented vitality. This model skillfully integrates the dual advantages of online and offline teaching, breaking the space-time limit of the traditional classroom. The online platform provides rich learning resources and flexible learning time, while the offline teaching ensures the real-time interaction and in-depth communication between teachers and students. This combination not only makes teaching more efficient, but also meets the learning needs of different students.

At the same time, this model adheres to the student-centered teaching concept, and puts students personalized learning needs in the first place. Through artificial intelligence technology, teachers can accurately grasp the learning characteristics and progress of each student, so as to provide tailored learning solutions. This student-centered teaching method greatly enhances the students learning enthusiasm and autonomy, and enables them to gain more sense of achievement and satisfaction in the learning process.

3.2. Supporting role of artificial intelligence technology

In the blended teaching mode, artificial intelligence technology plays a pivotal supporting role. First of all, big data analysis and mining technology can help teachers to fully and deeply understand students learning situation. Through the analysis of the massive learning data, teachers can find out the students learning difficulties and interest points, and provide strong guidance for the subsequent teaching. Secondly, natural language processing technology has shown great potential in teaching assistance. It can intelligently process students language input and provide timely feedback and suggestions, so as to help students improve their language use ability. In addition, VR and augmented reality technologies create immersive learning experiences for students. Through these technologies, students can experience the culture and context of English-speaking countries, and improve the interest and effectiveness of learning.

4. Application of Artificial Intelligence in College English

4.1. Application of Artificial intelligence in instructional design

In the teaching and design process, AI has shown its strong potential and value. The application of intelligent curriculum design principles makes the curriculum design more in line with

students learning characteristics and needs. With the help of artificial intelligence technology, we can deeply excavate and integrate a large number of teaching resources, and intelligently push relevant learning content according to students learning progress, interest and ability, so as to realize the optimization and individuation of teaching content.

In addition, the optimization and update of the teaching content has become more convenient and efficient. Through artificial intelligence technology, we can monitor and analyze students learning data in real time, understand the difficulties and pain points of students in the learning process, and then update and improve the teaching content to ensure the timeliness and practicability of the teaching content.

4.2. Application of artificial Intelligence in teaching implementation

In the teaching implementation stage, the use of intelligent teaching system undoubtedly improves the teaching efficiency and quality. These systems often integrate rich teaching resources and tools to help teachers better organize and manage the classroom, while also providing students with a more interactive and vivid learning environment.

At the same time, the artificial intelligence technology also realizes the real-time monitoring and analysis of students learning data. Through collecting and analyzing students learning data, teachers can timely understand students learning status and problems, and then provide personalized guidance and guidance to ensure that each student can get their own learning resources and help.

4.3. Application of artificial intelligence in teaching evaluation

Artificial intelligence also plays an important role in teaching evaluation. By building a multiple evaluation system, we can evaluate students learning outcomes more comprehensively and objectively. This evaluation system not only considers the students test results, but also combines the students learning attitude, participation, innovation ability and other aspects, so as to more truly reflect the students learning situation.

In addition, AI technology can also conduct in-depth analysis of the evaluation results and provide teachers with targeted suggestions for teaching improvement. These suggestions can not only help teachers to adjust their teaching strategies and methods, but also can provide strong data support for the future curriculum design, so as to realize the continuous optimization and improvement of teaching.

5. Practice and Research Prospect of College English Based on Artificial Intelligence

5.1. Summary of practical results

In the AI-based college English blended teaching practice, we have achieved remarkable results. First of all, in terms of teaching effect, through the introduction of artificial intelligence technology, we realize personalized learning recommendation, intelligent auxiliary evaluation and other functions, these intelligent support greatly improve the pertinacity and effectiveness of English teaching. The students have made significant progress in oral expression, reading comprehension, writing ability and other aspects. At the same time, the effective combination of the blended teaching mode makes the online and offline advantages come into full play, and provides students with more comprehensive and flexible learning support.

Furthermore, we conducted in-depth surveys on student satisfaction and feedback. The results showed that the students showed a high degree of recognition and love for this AI-assisted hybrid teaching method. They generally believe that this teaching mode not only enriches the learning resources, but also improves the interest and enthusiasm in learning. At the same time, the timely feedback of the intelligent evaluation system also enables them to have a clearer

understanding of their learning progress and existing problems, so as to adjust their learning strategies in time.

5.2. Research outlook and future trends

Looking into the future, with the continuous development and popularization of artificial intelligence technology, its application in college English teaching will be more extensive and in-depth. We can foresee that artificial intelligence will further promote the optimization and innovation of hybrid teaching mode, and bring more possibilities and challenges to English teaching.

In terms of technological development, AI will be more intelligent and personalized, and can better meet students different learning needs. For example, through deep learning and big data analysis technology, we can more accurately understand students learning characteristics and preferences, so as to provide them with more accurate learning recommendations and guidance. At the same time, the integration of virtual reality, augmented reality and other technologies will make English teaching more vivid and real, and further improve students immersion and learning experience.

In terms of teaching mode innovation, the blended teaching mode will continue to give full play to the advantages of the combination of online and offline teaching mode, and explore more teaching scenarios and methods. For example, we can use artificial intelligence technology to build innovative teaching platforms such as virtual English corner and intelligent English writing workshops to provide students with a more diversified and interactive learning environment. At the same time, with the development of new technologies such as 5G and the Internet of Things, we can also realize more efficient interaction between teachers and students, more intelligent learning management, and further improve the quality and efficiency of English teaching.

6. Conclusion

This study deeply explores the application of AI in college English teaching, especially the practice and research in the blended teaching mode. Through the comprehensive use of artificial intelligence technology, college English teaching can usher in a new reform and development opportunities, and its contribution and significance are mainly reflected in the following two aspects.

First, this study plays a significant role in promoting the reform of college English teaching. The traditional college English teaching mode is often teacher-centered, with limited teaching resources, and it is difficult to meet the diversified learning needs of students. The introduction of artificial intelligence technology has not only enriched the teaching resources, but also realized the personalized teaching, so that each student can get a tailored learning experience. The reform of this blended teaching mode has undoubtedly injected new vitality into college English teaching and promoted the overall improvement of teaching quality.

Secondly, this study is of great significance for the support and development of students personalized learning. With the help of artificial intelligence, students learning data and behavior patterns can be accurately analyzed, so as to provide them with more practical learning suggestions and guidance. This personalized learning support can not only help students to master English knowledge and skills more efficiently, but also stimulate their learning interest and motivation, thus promoting students all-round development.

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