

Research on the blended Teaching Model of university English Based on Artificial Intelligence

Yuting Zhao

Abstract : At present, my country's education system advocates the use of artificial intelligence technology in universities to strengthen the reform of ability training models and education methods, and to establish a new teaching system that includes knowledgeable learning and interactive learning. How to introduce artificial intelligence technology into college English education and efficiently integrate with college and university English "teaching" and "learning" is a key research issue in English teaching recently. This paper investigates the connotation of the mixed education mode, and proposes how to combine artificial intelligence-based "network teaching" with conventional teaching methods, and explains the advantages of the two teaching modes and explores a new model of college and university English education under the background of artificial intelligence.

Key Words: blended teaching; English teaching; artificial intelligence

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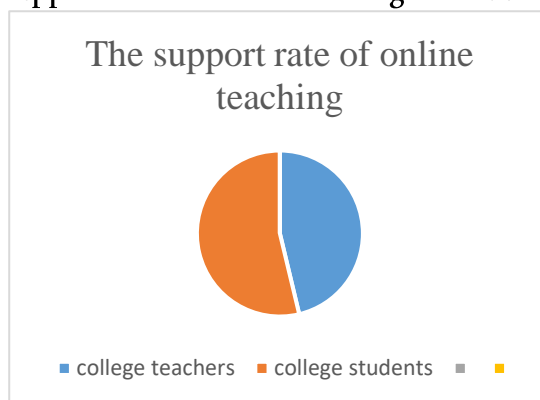
In the context of the advancement of artificial intelligence technique, how to apply AI technology to teaching has been given great attention by domestic and national universities. Reading and writing teaching is a significant constituent of college and university English. It is very important for students to master reading and writing skills to improve their English ability[1-5]. The teaching mode of college and university English reading and writing courses is still relatively traditional and cannot meet the daily teaching needs. Due to the rapid increase of artificial intelligence, online teaching has become one of the main methods of higher education. By combining online teaching with traditional teaching, English teaching can not only access the goal of enhancing the flexibility of English classroom teaching, but also enhance students' interest in studying[6-7]. However, due to the long-term influence of conventional teaching models, the integration of artificial intelligence and blended teaching models in college English classrooms is easily blocked, and scientific and reasonable strategies are needed to promote them. This paper first investigates the existing new models of English teaching in universities, and summarizes the related theories of artificial intelligence and blended teaching models, and puts forward the practical strategies and means for colleges to actively develop blended English teaching models[8-10].

METHODS AND MODELS

The present college English teaching model has the following problems: Under the background of the conventional teaching model, students' participation in class is not high. The educational methods of college and university teachers are not very novel. Conventional teaching methods are not conducive to students' diversified acquisition of knowledge. The current college English reading and writing teaching model is still relatively traditional, mainly in classroom teaching. Traditional English teaching process is generally a single form of reading and writing led by teachers. At the same time, traditional teaching is mainly based on teachers and supplemented by students. There are a lot of duck-filling content in reading and writing teaching. This teaching method leads to few interactive communication opportunities in the classroom and fewer cooperative inquiry activities, which limits the subjective initiative of students. Many teachers adopt a stocking attitude towards students during teaching, allowing students to search for knowledge on their own, without giving students systematic guidance. As shown in Figure 1, we can conclude that students have more interests in online teaching than teachers. The lack of systematic and initiative in students' learning has an impact on the improvement of the later comprehensive English ability. It is problematic for

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 teachers to control the case of each student. There are no feedback evaluations on student practice, or evaluation is delayed, which will reduce the quality of student learning activities.
 feedback evaluation is not detailed, feedback

Figure 1 The support rate of online teaching for students and teachers



In the modern information society, blended teaching replaces traditional teaching methods. Blended teaching realizes cooperative learning and autonomous learning. It combines online learning with offline classroom teaching, as well as the mixed application of online and offline classrooms, and enhances the interplay between teachers and students. From their own point of view, teachers can teach students in accordance with their capacity according to the degree of knowledge they have mastered, and rationally design teaching plans so that students have the initiative in the classroom to complete their teaching tasks. Blended teaching needs to follow the concept of cooperation, teaching by independent learning or group cooperation, using teachers as consultants and designers to help undergraduates learn English knowledge and maximize the advantages of media and learning resources. The in-depth development of the blended teaching mode helps to realize the diversification and richness of teaching methods. Teachers in colleges and universities can make the most of the strong points of online teaching and offline teaching, and comprehensively use diversified teaching methods. Choosing appropriate blended teaching methods according to the requirements of different teaching contents can not only provide good support for students' learning activities, but also help to adjust the classroom teaching atmosphere and greatly enhance the effectiveness of teaching. The mixed teaching model is to establish a one-stop teaching carrier to effectively integrate and analyze the teaching resources in society and colleges. In the procedure of English practical education, the orderly development of courses is the prerequisite and basis for the application of mixed teaching mode. In this process, curriculum teaching modules and online learning carriers should be two important components. It mainly includes the important and

difficult knowledge of English courses, teaching materials, teaching materials and so on. English teaching can establish an English test question bank in a targeted manner, and use the openness of the Internet age to build a sound and complete system of resource teaching mechanism. As a result, English teaching is more intuitive, systematic and data-based, and correct teaching concepts and teaching viewpoints are established.

In my viewpoint of language learning, the functions of artificial intelligence are more specific, such as language analysis technology, language recognition technology, language translation technology, etc., which are more common. With the increase in the popularity of artificial intelligence, these skills are applied in language teaching classrooms. The use of language education is also more extensive, and it is still in the process of continuous upgrading, which brings a huge opportunity for the innovation and transformation of language education methods. From the current situation of College English "listening and speaking" teaching, we should introduce software with the functions of real-time scoring and error tagging in College English teaching. These applications allow students to recite or retell "speaking" exercises after "listening", score and mark mistakes. In the future, these applications may also record, replay, grade and mark errors in students' open English dialogue exercises. This kind of AI software with detailed feedback will greatly promote students' interest in "listening and speaking" practice and improve the quality of "listening and speaking" practice. Artificial intelligence has rich application scenarios in the land of education. First of all, in the way of learning, artificial intelligence technology can actively collect and analyze learners' ability level, interest preference, behavior habits and other data information. On this basis, it forms personalized

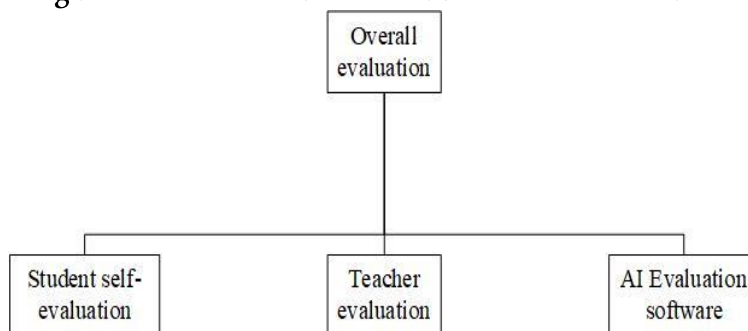
learning services that reach the needs of college students, and continuously carries out one-to-one dynamic tracking and optimization adjustment. During the learning process, artificial intelligence can act as an intelligent learning partner, cooperate and interact with learners, improve learners' participation and promote inquiry learning.

A NEW MODEL OF COLLEGE ENGLISH EDUCATION UNDER THE BACKDROP OF ARTIFICIAL INTELLIGENCE

In the construction of College English blended teaching mode, artificial intelligence technology can be used as the key channel to open the listening training resources. With the help of its unique corpus reserve to complete automatic matching and interaction, students can quickly obtain listening materials in line with their own learning needs from the huge amount of English listening materials, and carry out targeted automatic practice with artificial intelligence devices according to the content of the materials. Based on paragraph, text understanding and other technologies, after enough domain knowledge training, some AI entities can provide guidance and navigation for students in the initial stage of the course or in this stage of learning, and help students to realize data collection during online learning. AI entities based on statistics can also establish a perfect personal learning model for students and provide personalized learning navigation services. To realize the predominate application of blended teaching mode in English teaching, teachers should actively carry out divergent learning activities based on students' personality characteristics. Specifically, teachers can find a reasonable online teaching entry point according to students' learning habits and learning content, and realize the expansion and extension of knowledge. In the process of carrying out English

practice activities, teachers should first deeply analyze students' psychological characteristics and learning habits. Based on the actual needs of students, the network interactive communication space platform is built to realize students' autonomous learning, active communication and group cooperation. At the same time, the case teaching method should be used to strengthen the students' ability of integrating and analyzing information resources, while the teachers should assist and guide the students actively. Reading and writing course has common points in English teaching. Students can generally understand the meaning of English articles given by teachers through reading, which creates favorable conditions for online learning. Teachers can choose an English online teaching platform to upload the reading and writing materials or recorded micro lesson contents that need to be mastered by students to the platform, so that students can use their own appropriate time to complete the specified tasks. In addition to uploading learning materials, teachers can also make different forms of test materials to test students' learning effect. According to the test results, students can find out the weak points in their reading and writing knowledge, and make the most of the shared information system of the platform to learn again, which can make up for the missing of the learned knowledge. On the other hand, teachers and students can also use the online platform to actively communicate, students will not be able to send their knowledge to teachers, teachers use the form of video explanation to guide students' learning, not limited by time and space, improve the efficiency of reading and writing teaching. As shown in figure 2, the constituent of students' overall evaluation is self-evaluation, teacher evaluation and AI evaluation software respectively.

Figure 2 The constituent of students' overall evaluation

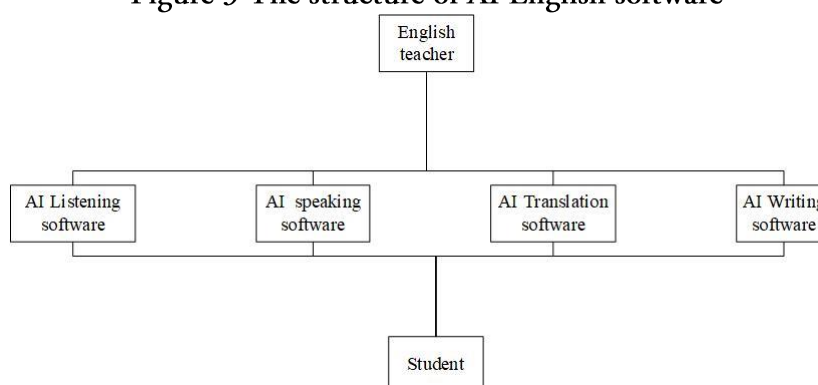


When carrying out blended teaching, teachers need to do well in the design of teaching activities, sort out the problems that students often encounter, take problem-solving as the core idea, put forward questions to students in class, stimulate their

curiosity for English knowledge, and cultivate the skills to analyze and solve cases. Due to the strong theoretical nature of College English knowledge, it is challenging for some students to apply it well in daily communication. Therefore, teachers can use

the way of practical exercises for group discussion. In the procedure of communication, students can not only think independently, but also exercise their oral expression ability. In the mixed teaching mode, the relationship between teachers and students will be closer. The mixed teaching mode can effectively shorten the distance between students and teachers. Teachers can also optimize the guidance to carry out differentiated teaching for students, and improve students' learning enthusiasm and self-confidence. Therefore, teachers need to be good at changing the teaching concept and recognize the particularity of internet teaching. Only in this way can students' enthusiasm and autonomy of autonomous learning be improved and students feel happy in the process of learning. Teachers also need to integrate the resources of network platform according to students' majors to give students more effective teaching. On the basis of the practice of the mixed teaching mode, we can further improve the teaching quality by reconstructing the teaching evaluation system and setting diversified assessment indicators. In the process evaluation, teachers need to evaluate the students' specific performance in the classroom, including the performance of group cooperation and the completion of homework. The evaluation table is mainly composed of four parts, which are student self-evaluation, teacher evaluation, inter group evaluation. The evaluation form can stimulate students' sense of competition, fully mobilize their enthusiasm and autonomy, and truly show the learning effect and learning state. In the comprehensive evaluation, the results of mid-term examination and final examination are mainly used as reference. Teachers can also flexibly arrange examinations and record students' test results at the current stage. In the mixed teaching mode, teachers need to change the evaluation standard for students, help students through online creation and online answering, and let students actively use their learning knowledge to solve problems and complete homework. Teachers also need to use a rich online evaluation system to evaluate, through such a teaching method, really enhance the quality and

effect of education. Teachers can choose a variety of College English learning resources and assign tasks according to students' different learning situations, and students can carry out autonomous learning anytime and anywhere with the help of various intelligent platforms. With the aid of artificial intelligence, students can arrange their learning schedule reasonably and construct their knowledge independently. In addition, teachers can also use intelligent assistants to urge students to complete tasks online. According to students' learning process and learning effect, teachers give timely feedback and targeted guidance to stimulate students' enthusiasm and truly realize personalized learning. The integration of artificial intelligence and College and University English can provide diversified teaching resources, personalized learning methods and intelligent teaching management, and open up new ideas for College English teaching. At present, speech recognition technology has been more mature, and the intelligent learning system of spoken language can understand the learners' language more accurately, and score the students' language from fluency, integrity, semantics, pronunciation and other dimensions, and point out the problems and give feedback. Teachers can assign tasks on the oral intelligent learning system. Students use the fragmented time after class to complete the tasks assigned by teachers. The machine will give feedback immediately and automatically, and then teachers can give accurate guidance to students according to the feedback results. In the actual teaching process, we should strengthen students' learning and grasp of oral English, and help students improve their oral English ability. Artificial intelligence has obvious advantages in oral English teaching. The emergence of educational robots has built a more colorful English communication environment for students. As shown in Figure 3, English teaching can use a lot of AI software aimed English teaching to help student to enhance their ability to study English.

Figure 3 The structure of AI English software

CONCLUSION AND DISCUSSION

The main difficulty of College English teaching lies in how to enhance students' interest for autonomous learning, how to break through the constraints of teacher-student ratio and provide students with good evaluation feedback. The introduction of AI technology provides a new idea for colleges to change the current college English teaching mode, which aims to raise students' listening, speaking, reading and writing ability and achieves the aim of College and University English teaching. When carrying out the mixed teaching mode of English, colleges should expand the content based on textbook knowledge, use the openness of offline teaching and online teaching to realize the integration and induction of knowledge, guide students to explore independently, actively carry out group cooperative practice teaching, actively adjust the teaching concept, and realize the comprehensive innovation of teaching[11-13]. In the teaching of College English reading and writing course, teachers can build a certain online and offline teaching platform, upload the teaching content to the platform in time, and let students actively use the platform for autonomous learning before and after class. When carrying out new English Teaching concept in Colleges, teachers need to combine the new teaching mode with the traditional teaching mode, so as to integrate online teaching with traditional offline teaching. Through the integration of the two teaching methods, it will clearly improve the students' learning enthusiasm and learning effect. The application of AI aimed teaching in college English teaching is still in the primary stage, but it has shown great potential. It has changed the method students learn English, improved the experience of English learning, changed the function of teachers, improved the quality of English education, and promoted the reform of English education[14-16].

DECLARATION OF CONFLICTING INTERESTS

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