Application of Artificial Intelligence in College English Teaching

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Abstract: With the continuous development of computer technology, "internet +" has gradually entered into various sectors of society, which has given rise to artificial intelligence technology. In order to adapt to the continuous reform of modern development, the introduction of artificial intelligence technology with machine-aided teaching in the education process has received extensive attention and attention in the field of education.

1. Introduction

In order to seize the major strategic opportunities for the development of artificial intelligence, construct the first-mover advantage of the development of artificial intelligence in China, and speed up the construction of an innovative country and a world scientific and technological power, on July 20, 2017, the State Council issued a new generation of artificial intelligence development plan, which puts forward the guiding ideology, strategic objectives, key tasks and safeguard measures oriented to the development of the new generation of artificial intelligence in China in 2030. In May 2018, China's Ministry of Education issued the "education information 2.0 action plan", pointing out that efforts should be made to build a national education resources public service system, in the role of lifelong, digital, networked, intelligent education ladder, to achieve "everyone can learn, everywhere can learn, always learn" a new social education system. It can be seen that with the progress of the times and the development of the country, artificial intelligence into the campus has become a trend[1].

2. The Connotation of Artificial Intelligence

Artificial intelligence (AI) is a new science and technology to research and develop theories, methods, technologies and application systems for simulating, extending and expanding human intelligence, that is, artificial intelligence is a discipline that studies certain processes of thinking and intelligent behavior (such as learning, reasoning, thinking, planning, etc.) that enables computers to simulate human beings, mainly including the principles of computer realization of intelligence, making computers similar to human brain intelligence, and enabling them to achieve higher-level applications. Artificial intelligence is a branch of computer science that tries to understand the essence of intelligence and produces a new intelligent machine that can respond in a similar way to human intelligence. The research in this field includes robot, language recognition, image recognition, natural language processing and expert systems. Since the birth of artificial intelligence, the theory and technology have become more and more mature, and the application field has been expanding, such as robot, economic policy decision making, control system, simulation system and so on. In the future, the technology products brought by artificial intelligence will be the "container" of human intelligence[2].
3. The Application of Artificial Intelligence in College English Teaching

Artificial intelligence is widely used in college English teaching, which can improve the boring and difficult teaching atmosphere in the traditional English teaching process, make up for the shortcomings in the teaching process, give full play to the advantages of science and technology, and improve the students' enthusiasm for learning and their subjective initiative in learning.

3.1. Intelligent Teaching

Intelligent teaching is the development and upgrading of computer aided teaching, and it is a good embodiment of artificial intelligence in college English teaching. Intelligent teaching is to provide a resource-rich platform for students to learn English with the help of various computer technologies. On this platform, students can learn and accumulate knowledge about listening, speaking, writing, translation and so on. Whether it is offline classroom teaching or online skills and knowledge upgrading, it can be realized by artificial intelligence. It is a comprehensive and multi-dimensional learning platform[3]. At the same time, intelligent teaching can also be customized for each student's learning progress and English ability, which is a very convenient and intelligent teaching system. Teachers can also use the intelligent teaching system to record the data and operation generated by the students in use for intelligent analysis, to understand the students' learning status and learning ability, to teach the students themselves in the classroom teaching, to adjust the teaching content and methods in time, and to formulate a teaching plan that is more suitable for the students' ability.

3.2. Listening

English listening learning is the basis of English ability training and an important content of English language learning. Using artificial intelligence to construct intelligent teaching system, we can store and equip rich English listening resources in the system, such as English songs, English dialogue, English film and television works, and guide students to learn in their interest. Using artificial intelligence to construct intelligent teaching system, to build a special listening resource database for students, to carry out intelligent analysis of data according to each student's English proficiency, learning interest points, training direction and professional skills before teaching, and
then to analyze the range of English listening materials that students can accept and interest in this age group according to big data, to match the most suitable listening materials for each student to study, to avoid the problem of adapting listening materials according to the content and teaching schedule in traditional teaching, and to ignore the problems of students' English proficiency and learning interest points, improve students' interest in learning and enthusiasm for learning English.

At the same time, in the process of using artificial intelligence to learn English listening, students can also conduct intelligent scanning and recognition of an item, article content, words and so on. After recognition, the system carries out English interpretation, translation and pronunciation correction to provide convenience for the study of English listening in daily life.[4].

3.3. Oral English

Listening and speaking are the two most important and basic abilities in English language learning, and good English dialogue ability is one of the basics of English communication. In the intelligent teaching system based on artificial intelligence, students can realize man-machine and everyone's dialogue on this platform and exercise their oral ability. First of all, man-machine dialogue, using artificial intelligence to build a platform that can achieve human-computer interaction, students can use the platform to choose to communicate with machines in English in a familiar environment, to practice speaking in a comfortable environment for students, can encourage students to speak English boldly and improve their English communication ability. Secondly, it can also use artificial intelligence to build a remote communication platform, students can communicate with other students online every day, if there are large differences in English proficiency between students, we can use some fixed sentence patterns, articles and phrases on the platform for collocation exercises, with the help of intelligent platform to achieve mutual help learning between students.

3.4. Writing

The ability of listening, speaking, reading and writing in English learning needs to be fully exercised in order to improve students' English comprehensive ability, which can be mainly used in the review and correction of English composition when using artificial intelligence for English writing teaching. Artificial intelligence can be used to build a composition writing and correction system, after the teacher assigned writing tasks, students can write in the system, or after the offline completion of writing in the system to upload, intelligent writing system can be based on the teacher assigned to provide a similar model text for students to broaden their thinking, can also provide some words and phrases that can be used in the composition for students to choose to use, but in principle can not exceed a certain number of the system after the composition upload inspection, to prevent students from copying or students copy each other, etc. To check the grammar, spelling and other questions in the composition, and give the correct answers in time, so that students can know their own problems in the process of writing and correct, consolidate the writing ability, deepen the knowledge point memory[5]. Finally, the system will students revised the completed composition summary into the hands of the teacher, by the teacher to carry out the final review work, check whether there are logic, sentences and other problems in the composition and timely communication with students to modify, and finally achieve each composition can let students really learn knowledge, improve writing ability.

3.5. Translation

In the process of reading English articles, students will inevitably encounter unfamiliar words, unfamiliar grammar application or incomprehensible situational sentences, then they can use artificial intelligence to help students to carry out intelligent translation in the process of reading and help students learn. Secondly, in the process of students learning English translation, we can also use artificial intelligence to construct the situation in the article, to help students understand the feelings expressed by the author, and to complete the translation task more accurately.
4. Intelligent Examination

In the process of college English teaching will be accompanied by a variety of examinations, with the increasing number of college students, the annual English examination needs to occupy a large number of classrooms, need to select teachers for invigilation, need to print a large number of papers, after the end of the examination, teachers have to do marking work, which undoubtedly increases the pressure on teachers to work. Artificial intelligence can be used for online paperless examination, eliminating the work of teachers invigilating and printing test papers, the pressure on teachers to mark the paper is also reduced. Using the artificial intelligence to construct the English answer question examination and the marking system, the teacher in the question stage, according to the examination difficulty degree, the examination scope and so on request, carries on the choice in the system, by the intelligence system automatically generates the examination question, the student only needs to register in the specified computer classroom in batches to carry on the examination. The system can automatically equip the listening materials needed for the examination, automatically mark the examination after the examination, generate the test results according to the students' answer, the teachers only need to log in and download, avoid the situation that the paper test needs a lot of time and energy to mark and score the examination papers, reduce the workload of the teachers, improve the efficiency and accuracy of the examination, and ensure the fairness and fairness of the examination[6].

![Figure 3 Artificial intelligence](image)

5. Conclusion

To sum up, based on the current rapid development of artificial intelligence and the importance of the development of China's comprehensive national strength for artificial intelligence, the application of artificial intelligence to college English teaching is very important and urgent, artificial intelligence for English listening, speaking, reading, writing ability training has a very important auxiliary role, but also can help reduce the workload of teachers in English examination marking, so that teachers can have more time and energy to invest in the exploration and learning of teaching methods and content, for students to learn English, improve English ability to bring more excellent help.

References


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