Reform of College English Teaching in the Context of Artificial Intelligence and Big Data

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Abstract: With the continuous development of artificial intelligence technology and big data technology in our country, artificial intelligence technology and big data technology have penetrated into each other in the field of education. In order to improve the effect of classroom teaching and the quality of classroom teaching, teachers should make full use of artificial intelligence and big data technology to improve and innovate the traditional classroom teaching mode.

1. Introduction

When introducing artificial intelligence and big data technology in the current college English teaching class, teachers should deeply analyze the artificial intelligence and big data technology, and integrate the information teaching means and learning methods into the college English teaching class. Teachers can use artificial intelligence platform and big data technology to analyze students' current learning needs and problems encountered by students in the process of pre-learning to meet students' diverse learning needs.

1.1. Artificial Intelligence Technology

In the 1950s, the emergence of artificial intelligence in the current society is an important research project in computer science. At the same time, the technology of artificial intelligence includes the comprehensive content of computer technology and linguistics, which is the product of the combination of wisdom in many fields[1]. With the continuous development of science and technology in our country, the meaning and characteristics of artificial intelligence technology have changed diversified, artificial intelligence technology can also be used to simulate or imitate human thinking and behavior, it can be said that the digital characteristics and intelligent characteristics of artificial intelligence technology are very obvious. In the current era, people use artificial intelligence technology to simulate human thinking logic, and artificial intelligence technology has penetrated into each other in various fields, and achieved the expected results in the process of practical application. In the mid-1980s, some experts showed artificial intelligence technology using other rules and methods, which brought the development of artificial intelligence technology to a new stage, in the current era, this new artificial intelligence technology is called expert system, with the extensive use of expert system, people see the convenience of expert system to practical work and life, and people use expert system proficiency is also very high, but expert system in the process of practical application will also have some limitations, that is, the flexibility of expert system is poor, can not solve some problems comprehensively, Nor can these solutions be effectively summarized and collected, resulting in the expert system in the practical application of some problems. By the mid-1980s, neural network technology had also been significantly improved in the field of artificial intelligence, but the amount of money invested in the application of neural networks was very large, so neural networks were not so widely used in people's daily work.

Figure 1 Artificial intelligence technology

1.2. Big Data Technology

Big data mainly refers to the comprehensive integration and collection of current data on the basis of no random sampling and analysis method, and the application of big data technology in various fields of work can teach more cumbersome data, collect and process it efficiently in a short time, and big data technology can read some data that can not be read manually[2]. In the present era, big data technology has been widely used in all fields of development in our country, and has also achieved the expected results, and even has become a key technology in some fields. The use of big data technology in the field of education can make a comprehensive analysis of students' current learning situation and students' interest in learning, as well as the integration of relevant data, which is conducive to improving the pertinence of education as a whole, so that each student can learn more knowledge.

Figure 2 The Application of Big Data in Education

The above is the introduction of artificial intelligence and big data, when teachers use artificial intelligence technology and big data technology to reform the original classroom teaching mode in the current college English teaching class, they should fully understand the meaning of artificial intelligence technology and big data technology, and integrate artificial intelligence technology and big data technology in depth, so as to continuously improve the teaching quality and teaching effect of college English and promote the improvement of students' English quality.

2. Analysis on the Reform of College English Teaching in the Context of Artificial Intelligence + Big Data

2.1. Changes in College English Teaching

In order to ensure that the artificial intelligence technology and the big data technology can play its due value and effect in the college English teaching classroom, the teachers should make clear the challenges and the related changes of the college English teaching under the background of the artificial intelligence and the big data era, so that the artificial intelligence technology and the big

data technology can play their due value and effect in the college English teaching.[3]. In the current college English teaching class, teachers should not only tell students about grammar and words, but also effectively exercise students' English quality, introduce more extracurricular content to expand students' knowledge, so that each student can be more active in the study of classroom knowledge content. In the current college English teaching classroom, teachers should use a variety of teaching means to respect the main position of students. Therefore, in the process of integrating artificial intelligence technology and big data technology in college english education class, teachers should start with this idea, which makes the artificial intelligence technology and big data technology can be deeply integrated, and change the shortcomings of the traditional college english teaching classroom. In the current college english teaching class, teachers can use artificial intelligence to construct a complete interactive platform and communicate with students. And teachers also encourage students to use artificial intelligence platforms to collect what they want to learn, so that each student can carry out personalized development. At the same time, the teacher should let the students make a comprehensive evaluation of their own learning effect and learning results in the artificial intelligence platform, and the teacher can have a comprehensive understanding of the results evaluated by the students at the end of the equipment, so that the follow-up teaching activities can be continuously optimized.

Figure 3 Artificial intelligence education platform

Teachers can also make use of big data technology to make a more scientific teaching plan when they get these information, and teachers should use artificial intelligence technology to teach students online in college English teaching class. In college English teaching class, the use of artificial intelligence technology and big data technology to some extent reduce the workload of teachers, teachers can have more time to formulate scientific and reasonable teaching plan, to cultivate students' other English literacy in a comprehensive way, it is worth noting that teachers in college English teaching class, in the use of artificial intelligence technology and big data technology to use the advantages of these two technologies to comprehensively record students' current learning situation, on the one hand, teachers can understand the problems encountered by students in the current learning process, on the other hand, students can also make a comprehensive analysis of the current learning situation. Give some advice to the students.

2.2. Countermeasures

When introducing artificial intelligence technology and big data technology in the current college English teaching class, teachers should start with the situation of college English reform. In the current college English teaching class, teachers should use artificial intelligence technology and big data technology to teach skillfully, which requires teachers to improve their teaching level and teaching quality effectively, teachers should learn advanced information technology teaching means in the current era, and master modern teaching ideas. Teachers should use smart phone scientifically and reasonably, and students should learn relevant knowledge in the evening. Teachers should change the wrong idea that mobile phones delay learning from the ideological level, and teachers should keep pace with the times to adapt to the development direction of the current big data era. In addition, teachers should strengthen the teaching and research activities before class, analyze the

students' current learning situation and learning needs in depth, and start with the students' learning needs and learning characteristics to carry out relevant teaching activities, so as to improve the teaching quality of college English as a whole. Teachers should conform to the development of artificial intelligence technology and big data technology in the process of classroom teaching, so as to ensure the orderly conduct of college English teaching classroom.

2.3. Research on Development Trends

With the extensive application of artificial intelligence technology and big data technology in college English teaching classroom, teachers should have certain predictability, make a comprehensive forecast of the application trend of artificial intelligence and big data technology, under the background of artificial intelligence and big data, pay more and more attention to the improvement of students' comprehensive quality and English application ability in college English teaching class, so teachers should make scientific and reasonable teaching plan according to students' current language level and learning ability. In the process of classroom teaching, teachers should increase the opportunities for students to learn independently, so that each student can skillfully use information means to obtain the information they want to learn, and teachers should strengthen the research on artificial intelligence technology, so as to realize the successful transformation of college English teaching classroom.

3. Conclusion

In the current college english teaching class, teachers should conform to the development direction of the times, apply artificial intelligence technology and big data technology to the college english teaching class, in this context, the college english teaching class will produce a big change, so teachers should make more detailed and effective teaching plan, use the network platform or other intelligent software to effectively mobilize students' interest and enthusiasm in learning, break the limitation of time and space, and promote the improvement of students' english quality.

References

[1] Wang Yuanyuan. Reform of college English teaching in the context of artificial intelligence. Overseas English, no. 15, pp. 80-82, 2018.

[2] Li Chunhong. Thinking Change in English Teaching in Big Data Environment. Journal of Jilin Radio and Television University, no. 12, pp. 125-126, 2017.

[3] Hua Lulu. Artificial intelligence to promote the change of English learning. Modern Distance Education, no. 6, pp. 129-130, 2017.