Research on College English Online Learning Platform Model Based on Big Data Technology

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Abstract. In this era of rapid development, the level of human science and technology is constantly improving. With the continuous development of the times and the continuous progress of society, big data technology has been widely used in our daily production and life. The research of College English online learning platform model is a hot topic in the teaching of many college English majors. In order to better study the model of College English online learning platform, many colleges and universities put forward the method of using big data technology to analyze the research of College English network learning platform model, through the big data technology to college English Based on the prediction of the development of e-learning platform model, combined with the new requirements for the research of College English online learning platform model in this era of rapid development, this paper provides guidance for the research of College English online learning platform model in China. Through the analysis, it is found that the method of using big data technology to analyze the model of College English online learning platform has a profound guiding role in the research of College English online learning platform model.

Keywords: Big Data Technology, Science and Technology, College English, Online Learning

1. Introduction

In the era of big data[1-3], English learning resources on the Internet are everywhere. Students can acquire the knowledge and information they need through mobile devices and learn anytime and anywhere, breaking the traditional single book information acquisition mode. In this case, the traditional face-to-face teaching and teaching methods are facing severe challenges. If the teacher still explains the words, grammar and text in the classroom, it cannot meet the needs of students and cannot stimulate students' interest in learning. Under the background of big data era, teachers should guide students to carry out personalized learning, guide students to dig in-depth massive and valuable
corpus, so as to improve students' language application ability. Therefore, English teaching activities are changing from teacher centered to learner centered, from book centered to corpus centered.

The network teaching platform[4-6] can spread more abundant knowledge to students and provide more English teaching information, especially comprehensive training of listening, speaking, reading and writing. The network teaching platform can not only display ordinary courseware, but also provide more practice methods to help student’s better master reading and writing skills. The use of network resources[7-8] has greatly expanded students' horizons. The network platform is more free for students and is conducive to the cultivation of students' autonomous learning ability.

This paper studies the research method of College English[9-10] e-learning platform model based on big data technology. In order to cope with the impact of the development of the times, all walks of life in China have carried out reform and innovation on their own development. In order to better study the model of College English online learning platform, many colleges and universities put forward the use of big data technology to conduct a better research on College English network learning platform model. Based on the analysis method of network learning platform model, this paper forecasts the development of College English online learning platform model through big data technology. Combined with the new requirements for the research of College English online learning platform model in this era of rapid development, it provides guidance for the research of College English online learning platform model in China. Through the analysis, it is found that the method of using big data technology to analyze the model of College English online learning platform has a profound guiding role in the research of College English online learning platform model.

2. Research Method of College English Online Learning Platform Model Based on Big Data Technology

2.1. Big Data Technology

Although big data was born late, it is changing our life comprehensively and profoundly. The biggest enlightenment of big data to education is to teach students according to their aptitude. The biggest application of big data in the field of education is personalized learning. We foreign language teachers should adopt different methods, different purposes, different materials and different channels according to different students. Therefore, foreign language teachers should take the initiative to learn, meet the challenges, make full use of the methods and tools of big data, insist on teaching students according to their abilities, advocate personalized learning, realize the combination of online and offline teaching, integrate the advantages of various traditional teaching, strengthen the cooperation among colleagues, and create foreign language teaching strategies in the era of big data, so as to truly improve the effect and efficiency of foreign language teaching.

2.2. Research on the Model of College English Online Learning Platform

The basic function of e-learning platform is to play audio and video files, as well as ppt or Flash courseware. The network platform can store these teaching materials for teachers, and students can make them online. It can be opened anytime and anywhere to realize the courseware on demand. The network platform can make the courseware display more vivid and intuitive, and the operation is simple and convenient. The network is only a teaching platform, but the specific teaching content
needs to be carefully designed by teachers. The quality of multimedia courseware has become a key factor. High quality courseware not only improves teaching efficiency, but also makes students more interested in English. Therefore, in addition to meeting the needs of students, the network platform also needs to prepare courseware development tools for teachers. Only by enriching the content of the courseware can we make the students' VOD more meaningful.

3. Experimental Correlation Analysis

3.1. Experimental Background

The students' initiative in the learning process cannot be easily mobilized in the short time of learning. Otherwise, it is difficult for students to achieve a high degree of autonomous learning in the teaching process. Therefore, blended teaching needs to adopt formative assessment to comprehensively evaluate students' learning motivation, learning behavior and learning effect, so as to stimulate students' learning motivation.

3.2. Experimental Design

Mixed teaching provides conditions for formative assessment. Blended teaching is divided into two parts: face-to-face classroom teaching and online learning. The teaching process is more complex, teaching activities are rich and diverse, and it is easy to implement formative assessment. Therefore, the blended teaching should adopt formative evaluation; build an evaluation system with formative evaluation as the main body, summative evaluation and multi-body participation, so as to give full play to the evaluation and incentive function of teaching evaluation. The results of the survey are shown in Table 1.

Table 1. Framework table of effective teaching behavior indicators for College English blended teaching

| Dimension                          | Description                                                                 |
|------------------------------------|-----------------------------------------------------------------------------|
| Managing online learning           | Teachers arrange online autonomous learning tasks, track learning situation and provide targeted guidance |
| Diversified evaluation             | Teachers' Formative Evaluation and summative evaluation on online learning and classroom face-to-face learning reflect the characteristics of richer learning activities, more diverse learning outcomes and more diverse participants in blended teaching |
| Individualized teaching            | Teachers provide personalized resources, learning tasks, guidance □          |

4. Discussion

4.1. Analysis of the Research Status of College English Online Learning Platform Model Based on Big Data Technology
In essence, College English online teaching platform is application software. Its successful application and promotion not only needs to have the appropriate learning theory as the foundation, adopts the appropriate learning strategy, but also depends on whether it can meet the learning needs of students and teachers. Only the learning system recognized by teachers and students can be widely used in Colleges and universities and play a role in promoting students' learning. Therefore, it is very important to understand the needs of teachers and students. The questionnaire starts from the openness, function realization, interface design and question design of the network platform, and analyzes the design of the English network teaching platform from the perspective of user needs through the questionnaire survey.

In this survey, due to the use of network teaching platform in each school and even in each class, whether students and teachers have contacted the network teaching platform, the depth of contact is also different, and the level is uneven. Limited by the time and conditions, the sample selection is a simple random sampling of the whole school students. The purpose of using English learning platform is investigated. The results are shown in Figure 1:

![Figure 1. Survey results on the purpose of using the platform](image)

As shown in Figure 1, most teachers and students regard the network teaching platform as a multi-angle, multi-functional auxiliary learning tool. When the student answers "what is your purpose of using the platform?" Only 19% of the students chose to consolidate their knowledge of classroom learning, 43% chose to preview before class, 18% chose to expand their knowledge reserve, and 20% only chose to evaluate the learning effect. Most students have a good vision of using English online learning platform. Many students are willing to try to use English online learning platform. The design of English network platform should integrate the research results to design the platform function accordingly.

In view of the defects of single classroom teaching mode and single online learning mode, blended teaching has developed rapidly in the world in recent years, especially in the field of higher education. Blended teaching combines information technology, Internet resources and education closely. However, technology and resources will not automatically play a role; teachers are the key to restrict the quality of teaching. The purpose of this study is to establish a framework of teachers' effective teaching behavior in College English blended teaching, to explore the implementation status of some universities, and then to explore the main factors affecting these behaviors and the interaction between
the factors, so as to put forward suggestions to improve the quality of blended teaching. A survey of the ways of online learning in universities is conducted. Among them, I represent the platform of teaching materials that match with the course. II shows QQ group, WeChat group, III represents online operation or test platform, IV represents mobile phone APP, V represents WeChat official account, and the survey results are shown in Figure 2.

![Figure 2. Types of online learning platforms](image)

As shown in Figure 2, 67% of the students use the platform that the textbooks belong to and match the course to do the English online learning. 51% of the students are learning English online through QQ group and WeChat group. 43% of the students are studying English online through online homework or test platform, 37% of them use the mobile phone APP to do the English learning, and 25% of them use the WeChat official account. English online learning. Several major foreign language textbook publishers have taken the lead in developing college English teaching platform, which is well known and trusted by most people with the promotion of textbooks in Colleges and universities. Therefore, it is not difficult to understand that the online platform matching with textbooks is still the most widely used one. Therefore, the research on the model of College English online learning platform needs to be designed according to the needs of users.

4.2. Suggestions on the Research and Development of College English Online Learning Platform Model Based on Big Data Technology

The development of computer network technology has sounded the clarion call of network education, and a series of computer-aided teaching systems came into being. Driven by the wave of reform, the Ministry of education has begun to formulate various teaching syllabus to reform the traditional teaching methods. The outline clearly points out that colleges and universities should make full use of multimedia network resources and speed up the pace of improvement of education mode. Therefore, teachers' teaching and students' learning are no longer limited to the classroom. Efforts should be made to develop independent and diversified learning modes. College English online teaching platform is a kind of network assisted English teaching platform promoted by the reform.

The network environment is rich in resources, large amount of information, fast update of knowledge, vivid and interesting, strong practicability; teachers can guide students to read the introduction and text. Teachers show pictures and materials through the network environment, broadcast TV and video clips, and then design the following questions around the teaching objectives,
teaching situations and teaching materials, so that students can think and explore. Unlimited resources, so that students of different English levels have the choice of autonomous learning, to build their own learning system.

Through the newly developed College English learning platform, teachers can use the platform to distribute homework to students, answer students' questions, review students' submitted homework, and check students' learning situation. Students can use the platform to learn online English textbook resources. During the learning process, students can take notes, ask questions to teachers or post on the forum for help, and complete the assignments assigned by teachers. Using this system, teachers and students no longer need to download various client software, as long as there is a browser and network, with the user account and password can enter the platform, or study, or work.

Network teaching platform is different from other software; it should not only meet the needs of users, but also achieve certain teaching purposes. The design of network teaching platform also needs English teaching designers to design the system with specific teaching materials, specific teaching strategies and specific teaching purposes. With the rapid development of network technology, the Internet has become a powerful tool for College English teaching. With more and more people on the theoretical basis of network teaching platform research technology realization, network teaching platform will continue to improve, so that students and teachers more and more accept and like to use this tool to learn, after all, the network, multimedia, computer has its other auxiliary teaching incomparable advantages.

College English network teaching platform is not only a common teaching tool, but also a kind of computer software compared with other teaching tools. The quality of software is very important, whether it meets the needs of users. Only the software that meets the needs of users will be accepted and promoted by users. Therefore, it is very important to understand the multi-level and multi-level needs of College English teachers and students.

5. Conclusion

This paper introduces the research method of College English online learning platform model based on big data technology. With the development of the times and the progress of society, many things in China need to be reformed according to the new requirements of the new era. Compared with the past, the research methods of College English online learning platform model have also changed greatly. Changes, this paper puts forward a method of integrating big data technology with the research of College English online learning platform model, analyzes the research status of College English online learning platform model, and formulates a new research scheme of College English online learning platform model based on the new requirements of big data era for College English online learning platform model. Through long-term research and observation, it can be found that some analysis methods proposed in this paper have important practical significance for the research methods of College English online learning platform model based on big data technology.

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