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Research on Individualized Strategy of Chinese Language Teaching Based on Artificial Intelligence

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Abstract: With the rapid progress of artificial intelligence, the field of higher education is also facing new development opportunities and tests. The core of this paper is to study the integration of artificial intelligence technology into Chinese language curriculum in order to achieve the purpose of customized teaching. This paper not only sorts out the development of the application of intelligent technology in education, but also analyzes the concept and implementation of customized teaching. This paper further discusses the construction of individualized teaching system of college Chinese course. The aim of this study is to optimize the effectiveness of Chinese language teaching, to meet the diverse learning needs of students, and to provide reference for the industry.

Keywords: artificial intelligence, Chinese language teaching, individuation, strategy

Introduction

At present, with the development of artificial intelligence technology, more and more education fields try to apply artificial intelligence technology to teaching. In the field of Chinese language teaching, the traditional teaching mode has many problems, such as unbalanced teaching resources, single learning content and single teaching method. Therefore, how to use artificial intelligence technology to enhance the level of Chinese language teaching personalization has become a hot research.

1. Present situation and challenge of Chinese language teaching

Researchers began to explore how to use artificial intelligence technology to achieve personalized Chinese language teaching. First of all, through the analysis of students' learning data, we can understand each student's learning characteristics and needs, so as to tailor learning programs for them. Secondly, the use of artificial intelligence technology can develop intelligent Chinese language learning system for students to provide personalized learning content and teaching methods. For example, the system can recommend suitable learning resources according to students' learning progress and interest, and adjust teaching methods according to students' learning to improve learning effect[1].

2. Personalized strategy of Chinese language teaching based on artificial intelligence

2.1 Learner needs analysis

At the beginning of making a customized plan for college Chinese teaching assisted by artificial intelligence, it is necessary to carry out the research on learners' needs. This process can be achieved by filling out questionnaires and conducting one-on-one interviews to grasp students' learning goals, preferences, Chinese proficiency and personal interests. Based on the Chinese teaching program in colleges and universities, the research on students' needs shows that there are

differences in the objectives and backgrounds of Chinese learning among learners of different nationalities. Based on the results of learners' needs research, we can customize personalized teaching strategies and materials to meet students' learning requirements and enhance teaching effectiveness.

At the same time, the students' individualized learning style and Chinese mastery degree are also the key points that can not be ignored when making teaching plans. Based on the data analysis function of intelligent teaching system, teachers can adjust the teaching materials and progress more accurately according to students' learning behavior and progress[2]. For example, students with weak oral ability can increase the proportion of oral practice and provide more opportunities for communication, while those who encounter difficulties in learning Chinese characters can use more intuitive and interesting teaching methods, such as Chinese character writing games and animation teaching resources.

2.2 Construction of intelligent learning environment

Take "Global Chinese Language Learning Platform" for example, the system combines advanced artificial intelligence technology and rich Chinese language education resources to create a tailor-made learning process for students. Users can learn online courses, complete exercises training and participate in assessment, and get real-time evaluation and guidance. According to the progress and achievements of each student, the system will automatically arrange personalized learning paths and recommend relevant learning materials to improve the efficiency of students' mastering Chinese.

Intelligent learning space must be equipped with auxiliary teaching function. For example, speech recognition technology can help students improve their oral and listening skills. Users can carry out speech interaction training on the platform, and receive immediate pronunciation evaluation and correction suggestions. In addition, with the help of massive data and machine learning technology, Intelligent Learning Space can analyze users' learning habits and effectiveness, and provide targeted learning guidance and suggestions for teachers and students. Students can also interact with teachers and classmates on the platform to exchange learning experiences and materials. The platform should also provide diverse learning materials and interactive teaching to cater to the individual needs and preferences of different students. For example, the "China Language Institute" platform not only contains teaching videos, exercises and online forums, but also adds Chinese cultural experience projects and offline interactive activities, which add interest to learning and arouse students' interest in learning[3].

2.3 Personalized learning path design

Tailored to each student learning map, according to personal characteristics and needs, carefully planned education journey. Carefully create a personalized learning trajectory, can significantly enhance the learning effectiveness and motivation, and then achieve excellent teaching results.

In order to create a personalized learning trajectory, students' learning objectives and background information must be considered. For example, in the Chinese language teaching program in colleges and universities, students from all over the world have different learning objectives. Some students hope to enhance their competitiveness in China through learning the Chinese language, while others are based on their interest in the Chinese language and their desire for cultural exchange. In the face of these diverse learning objectives, develop appropriate learning programs to meet their individual needs.

When planning the individual learning trajectory, we should pay attention to the learning ability and preference of the students. According to the students' language mastery and learning ability, arrange moderate difficulty, moderate depth of appropriate learning tasks and content. For example, beginners can start with the most basic vocabulary and grammar, and gradually increase the difficulty, while students with higher levels can arrange more advanced listening, speaking and reading training programs. At the same time, according to the student's learning style and interest, provide a variety of teaching activities and resources. For example, for those who prefer vision, a variety of images and multimedia materials can be provided, while for those who prefer hearing, a variety of listening materials and speech exercises can be provided.

The construction of learning track should be clear, systematic, according to the order from simple to complex, from simple to deep learning content[4]. For example, in the initial stage of learning Chinese, students can start from the simple

daily dialogue and basic vocabulary learning, gradually transition to more complex language expression and cultural understanding. In the process of learning, it is necessary to consolidate the acquired knowledge and gradually introduce new language skills and cultural elements to ensure the coherence and progressiveness of learning.

In order to perform personalized learning trajectory efficiently, intelligent teaching system and personalized learning tools can be used. For example, in the Chinese language teaching program in colleges and universities, the use of "Chinese music" platform to provide students with a customized learning experience. Through the platform, learners can choose their own learning paths and materials based on their own learning goals and levels. The platform can also automatically generate customized learning plans and suggestions according to learners' learning behavior and progress to help learners master Chinese more efficiently.

2.4 Real-time feedback and adjustment mechanism

Teachers can rely on intelligent teaching system to collect students' learning information and progress. For example, through online testing and homework submission, the system autonomously evaluates students' grades and knowledge points. In the course of Chinese teaching in colleges and universities, teachers use the "Smart Campus" system to collect students' data, including online test scores and classroom participation.

Depending on the collected student information and performance, the system can automatically develop personalized learning guidance program and adjustment plan. For example, for students who perform well, the system will recommend more difficult content and more challenging exercises to help them improve their studies, and for students with learning difficulties, it will provide more guidance and help to help them overcome learning difficulties. In the "Smart Campus" system, according to the students' information, we can automatically make the personalized learning path and recommend the materials to provide customized learning guidance. Teachers can adjust the teaching strategy and content according to the actual situation and feedback of students, and give individualized guidance and support. For example, in the process of Chinese teaching in colleges and universities, teachers keep instant interaction with students through online discussion and answering questions.

Teachers and teaching administrators can evaluate and feedback the teaching results and students' satisfaction regularly, and optimize teaching strategies and contents according to the evaluation results. For example, through the survey of students' satisfaction and the evaluation of teaching results, it is found that the "Smart Campus" system is effective in improving students' learning effectiveness and satisfaction.

3. Conclusion

In a word, the individualized strategy of Chinese language teaching based on artificial intelligence will bring revolutionary changes to language teaching. Through customized learning plan, intelligent assistant teaching tools and real-time adjustment of teaching content, students will be able to master Chinese more efficiently and quickly to achieve personalized learning goals.

Conflicts of interest

The author declares no conflicts of interest regarding the publication of this paper.

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