Research on Japanese Teaching Analysis System Based on Artificial Intelligence

Yao Jing
Dalian Neusoft Univeristy of Information Zip code: 116023

Abstract: As one of the current popular technology, artificial intelligence has an important impact on education. Therefore, teachers need to strengthen the use of artificial intelligence equipment in teaching so that it can play its due role in education. Japanese talents are the key required by the current country. Teachers need to analyze their Japanese mastery skills in teaching to grasp the actual learning situation of students. At this time, teachers can use artificial intelligence Japanese teaching analysis system. This article mainly researches the Japanese teaching analysis system based on artificial intelligence, hoping to provide help for Japanese teaching.

1. Introduction
Although some colleges and universities have begun to use the Japanese teaching analysis system based on artificial intelligence, there are still situations in the application of the analysis system. Teachers do not understand the significance of the application and can not really play the role of the analysis system. It can affect the role of the artificial intelligence Japanese teaching analysis system. Therefore, every university should timely study the Japanese teaching analysis system, and constantly tap the teaching auxiliary function.

2. Artificial intelligence(AI)
Artificial intelligence can be said to be a branch of computer science, which can simulate the way that the human brain analyzes and judges data to process related data, and then draw corresponding conclusions. AI has two cores, one is artificial, and the other is intelligence. The so-called artificial means to manually set the relevant procedures to ensure that the smart device can perform prescribed by the person. The intelligence is the device that can perform information, symbol and problem solving. Now that AI is used more and more frequently in education, teachers need to strengthen research on AI equipment to improve students’ learning abilities.

3. Function of Japanese teaching analysis system based on artificial intelligence

3.1 Representation and access of knowledge
The analysis system of AI Japanese teaching takes knowledge as the object, computer hardware and software, computer science and technology as the foundation, and philosophy and psychology as the guidance. Relevant knowledge is directly input into the database, the corresponding knowledge conclusion is found from the database, and then output to the big screen. The following figure is the structure diagram of artificial intelligence teaching analysis system.
3.2 Symbolic operation
Symbolic operation is also an important function of the Japanese teaching analysis system of AI. When teachers put students’ scores in the AI system for each semester, the system will call the corresponding formula and symbols to process the data, thus reaching the corresponding conclusion[1]. The current AI analysis system for Japanese teaching can be used for numerical calculation, symbol calculation and function drawing. As shown in the figure, the intelligent host structure diagram of the teaching analysis system based on artificial intelligence is shown.

3.3 Automatic analysis of students’ mistakes
One of the main functions of the AI analysis system is to analyze the learning status of students, and to make post-study suggestions based on the current learning status of students. For example, when the AI analysis system changes the student’s performance and the type of knowledge errors in the test paper, it may conclude that the students’ basic knowledge is not solid. When it draws such a conclusion, the system will help the students to formulate the later learning plans and goals, thereby effectively improving the students’ Japanese learning ability.

4. Measures to effectively use artificial intelligence Japanese teaching analysis system

4.1 The AI teaching analysis system is used to analyze academic achievements
As an important part of the current teaching system of language in colleges and universities, Japanese has a good support for the talents needed by the country. With the application of AI teaching equipment
in teaching, the quality has been further improved. However, in terms of the current application of the AI Japanese teaching analysis system, most teachers still have more concerns about the performance, and they can not really use it in their daily teaching, which limits the role of the AI Japanese teaching analysis system. Therefore, teachers should use the system of AI to analyze students’ achievements, and draw the problems in test papers.

For example, at the end of each test, the teacher can input the students’ test paper into the artificial intelligence Japanese teaching analysis system, and use this system to draw the conclusion that what are the missing items of the students’ whole test paper, what are the missing items of simple questions, and what are the missing items of students’ grammatical errors, and then the teacher can input the test paper into the artificial intelligence Japanese teaching analysis system. Based on the analysis, it can make the next teaching plan. In addition, when teachers use the AI Japanese teaching analysis system to analyze students’ scores, they can also use the comments function of the AI analysis system to comment on each students’ problems when completing the whole set of test papers. Through the analysis of the students’ achievements by the artificial intelligence teaching evaluation and analysis system, not only can the students be more clear about the problems existing in their learning process, but also can help the teachers to define the next step of teaching objectives, and make the later teaching plan.

4.2 The AI teaching analysis system is used to analyze students’ learning state

Students’ learning status has an important impact on students’ knowledge of Japanese. If students have a good learning status, students’ Japanese learning efficiency will be higher. There will be a decline otherwise. In traditional teaching, teachers only evaluate students’ learning status based on their test scores and daily situation. Although this evaluation method can objectively analyze students’ learning status, they may have large conclusion errors. The AI Japanese teaching analysis system can analyze the students’ daily performance, participation in classroom activities, test scores, and students’ comprehensive questions and answers to obtain analytical data on student attitudes. Therefore, teachers need to strengthen the research on AI Japanese teaching analysis system, and further exert the analysis function on students’ learning attitudes[2].

For example, in Japanese teaching, teachers only need to input students’ daily performance, test scores, and participation in classroom activities into an artificial intelligence analysis system, and the analysis system can analyze students’ learning status, and combine student applications in a large database. There is a learning status to score the current student learning status, and the teacher can determine students’ current learning status by analyzing the scores given by the system. In addition, the artificial intelligence analysis system can also summarize students’ learning status data in recent months to form a corresponding data line chart. Teachers only need to enter students’ recent test scores and usual activities in the artificial intelligence analysis system. After getting the map of students’ learning status changes in recent months, teachers can then talk to the students according to the students’ learning status map to understand the reasons for the changes in their learning status and encourage students to work hard to overcome difficulties. By using the artificial intelligence English teaching analysis system to analyze the learning status of students, teachers can more accurately grasp the changes in student learning status, and then encourage and guide students based on the changes in student learning status, so as to improve student learning interest.

4.3 The teaching strategy is analyzed by AI teaching analysis system

Although various universities and colleges have formed their own unique teaching systems for Japanese teaching as a foreign language, Japanese has a great challenge to students’ learning ability basis, which still needs the guidance of teachers’ teaching strategies. From the perspective of current teaching strategies, some teachers fail to combine the actual situation of students in the process of making teaching strategies, which affects the improvement of students’ Japanese learning performance. However, the AI teaching analysis system can analyze the rationality and feasibility of teachers’ teaching strategies in combination with students’ learning conditions and the changes of students’ grades to ensure the applicability of teaching strategies to the maximum extent. Therefore, teachers need to use the AI
teaching analysis system to analyze their own teaching strategies, timely find the shortcomings, and correct the problems.

For example, a teacher in the Japanese teaching could be applied to “situational teaching method”, “multimedia teaching equipment” and other advanced teaching methods. When teachers use the teaching way to students before the ability performance analysis, the data and the use of the above teaching strategies for students to test the learning ability of students through comparison of results before and after the application of the teaching strategies. In addition, teachers also can take use of various teaching methods to the student to carry on the teaching of lesson plan written into AI analysis system of teaching, using the rich cases in the system to analyze the rationality of their teaching plans, and concluding their various problems existing in making teaching plans. It can correct the problem in production to ensure that the teaching strategies and plans can play a guiding role to students’ knowledge of Japanese study.

4.4 AI analysis system is used to analyze the teaching progress

For example, teachers only need to input students’ daily performance, test scores, and participation in classroom activities into an AI analysis system, and the system can analyze students learning status, and combine student applications in a large database. There is a learning status to score the current student learning status, and the teacher can determine students current learning status by analyzing the scores given by the system. In addition, it can also summarize students learning status data in recent months to form a corresponding data line chart. Teachers only need to enter students recent test scores and usual activities in the AI analysis system. After getting the map of students’ learning status changes in recent months, teachers can then talk to the students according to the students’ learning status map to understand the reasons for the changes in their learning status and encourage students to work hard to overcome difficulties. By using the AI English teaching analysis system to analyze the status of students, teachers can more accurately grasp the changes in student learning status, and then encourage and guide students based on the changes in student learning status to improve learning interest.

For example, when a teacher can input his own Japanese teaching situation into the system before teaching Japanese, the analysis system will give the teacher an average teaching progress based on the previous situation. Then in future Japanese teaching, teachers can enter the time spent in their own chapters into the AI analysis system after each chapter ends, and the analysis system will score the teacher’s progress in conjunction with the chapter’s teaching progress collected by themselves and evaluation. If the evaluation score given by AI is low, teachers should slow down the teaching progress and consolidate the students’ knowledge of Japanese. Through this detailed AI analysis system, teachers’ teaching progress can be guaranteed to meet the learning needs of most students, and the phenomenon that students cannot consolidate their knowledge due to too fast teaching progress can be avoided [3].

5. Conclusion:
The use of AI teaching analysis system can effectively stimulate students interest in learning Japanese to improve the students learning ability with important significance. But in the current research, part of the teachers still cannot effectively know the importance of teaching of AI analysis system in Japanese teaching, which limits its development of teaching effect. Therefore, in the later stage of Japanese teaching, teachers need to apply the AI to students’ learning status, students’ learning results, and teachers’ teaching progress and other aspects.

References
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