

Reflections on the Reform of English Teaching in Vocational Colleges from the Perspective of Artificial Intelligence

Ju Yuan*

Sichuan Southwest Vocational College of Civil Aviation, Chengdu 610400, China

*Corresponding author: Ju Yuan, yuanjujane@sina.com

Copyright: © 2024 Author(s). This is an open-access article distributed under the terms of the Creative Commons Attribution License (CC BY 4.0), permitting distribution and reproduction in any medium, provided the original work is cited.

Abstract: With the advent of the information age, artificial intelligence has been widely applied in various industries, bringing opportunities for vocational English teaching. In order to better seize these opportunities, vocational colleges need to pay attention to the application of artificial intelligence technology in English teaching, fully leverage its technological advantages and promote innovation in English teaching activities. Starting from the development of artificial intelligence technology, this article analyzes the current situation of vocational English teaching, discusses the value of artificial intelligence technology in vocational English teaching and proposes specific reform strategies for vocational English teaching from the perspective of artificial intelligence, accumulating experience for the implementation of vocational English teaching reform.

Keywords: Artificial intelligence; Vocational education; English teaching

Online publication: July 29, 2024

1. Introduction

The development of artificial intelligence technology has driven a major transformation in the social environment, presenting a trend towards intelligent development in the future. In this context, artificial intelligence has been well applied in teaching, guiding the direction of vocational English teaching reform. Based on this, teachers need to pay attention to improving their own information literacy, use artificial intelligence technology, adjust English teaching activities and provide guarantees for the improvement of students' English abilities.

2. The application value of artificial intelligence technology in vocational English teaching

Firstly, in the teaching activities of vocational English, teachers can ensure the implementation of personalized testing and better implement personalized teaching through the application of artificial intelligence technology.

With the help of artificial intelligence technology, teachers can also ensure the comprehensiveness of tests and have a more accurate understanding of students' English abilities. Through the application of professional equipment, students are tested for their English proficiency, such as listening, reading, speaking, grammar and vocabulary, in a multi-dimensional and comprehensive manner, making the evaluation results more objective. Teachers sort out the test results and develop more targeted teaching policies.

Secondly, the application of artificial intelligence technology in vocational English teaching can help enhance students' learning enthusiasm ^[1]. In the process of listening and speaking tests, teachers can use artificial intelligence technology to integrate life elements, meet the requirements of students to apply what they have learned to use and promote their enthusiasm for knowledge exploration. By cultivating students' interest, it can promote the improvement of teaching effectiveness and ensure the enthusiasm of students for learning ^[2]. Therefore, vocational colleges need to start from the actual situation of students and guide them to master more practical English knowledge. Through the use of artificial intelligence technology, teachers can better guide students to actively participate in learning and ensure the good development of English teaching.

Next, in the process of vocational English teaching, the application of artificial intelligence technology can correct errors made by students directly, including vocabulary, oral pronunciation, etc., make them learn faster and truly improve their English literacy. In the teaching activities of vocational English, pronunciation is an essential part. Due to the different regions where students come from, it is inevitable to incorporate certain dialect elements in the process of English pronunciation, resulting in inaccurate English pronunciation ^[3]. Through the application of artificial intelligence technology, students can be recognized through speech, thereby making good judgments on their pronunciation. Under the influence of this device, students can easily discover their own pronunciation deficiencies and make timely corrections, thereby improving the accuracy of learning and laying the foundation for subsequent English learning.

Finally, the application of artificial intelligence technology in vocational English teaching can dynamically transform English knowledge, help students break through the limitations of time and space, better utilize fragmented time for learning, form a healthy learning concept and improve learning effectiveness. Artificial intelligence technology can build a good English communication platform for students, better carry out English practice and help students form a healthy learning concept. At the same time, artificial intelligence technology can also build a good English teaching environment, enabling students to participate actively in the English learning process and promoting significant improvement in teaching effectiveness.

3. The current situation of English teaching in vocational colleges

With the advent of the information age, the traditional education industry is facing enormous challenges. Among them, the reform of vocational English teaching is urgent, but the actual English teaching has shown many problems. The composition of students in vocational colleges is relatively complex, with most students having poor English literacy and lacking sufficient learning ability. It is inevitable that they will have a resistance mentality in English learning and lack enthusiasm for exploration in English knowledge learning. The actual effectiveness of English teaching needs to be improved ^[4]. At the same time, English courses in vocational colleges belong to public basic courses and are usually implemented in the form of large classes. The actual teaching activities lack specificity and achieving the expected teaching results is difficult ^[5]. In the teaching activities of vocational English, most teachers adopt traditional teaching methods and rely on indoctrination teaching methods. Students are in a passive learning state, unable to flexibly apply the English knowledge they have learned to use, and the English classes' atmosphere is relatively dull.

In addition, in the teaching activities of vocational English subjects, it is difficult for teachers to carry out good teaching activities due to the lack of support from advanced teaching concepts ^[6]. The single teaching form in vocational colleges is not conducive to the improvement of students' thinking ability and also affects the actual teaching effectiveness. In the assessment activities of teaching, most vocational colleges still adopt a single final exam assessment method. Due to the influence of the above assessment methods, teachers are unable to objectively evaluate the English learning situation of students, resulting in students placing too much emphasis on exam results in the learning of English knowledge, which deviates from the concept of quality education and the actual educational effect is poor.

4. Reform strategies for English teaching in vocational colleges from the perspective of artificial intelligence

4.1. Transforming teaching concepts and skillfully utilizing artificial intelligence technology

In the new era of development in vocational education, the integration of English teaching and artificial intelligence meets the needs of teaching reform. It can not only promote the development of vocational English teaching but also help improve the efficiency of English resource application, promote the improvement of actual teaching effectiveness and ensure the effectiveness of education ^[7]. With the change of teaching environment, the drawbacks of traditional English teaching methods are becoming increasingly prominent. Vocational colleges need to start from this characteristic, pay attention to the application of artificial intelligence technology, promote innovation in teaching concepts and better apply information technology in actual teaching activities to ensure teaching effectiveness ^[8]. On the one hand, teachers need to pay attention to the transformation of their teaching philosophy, clarify the subject status of students, strengthen teaching guidance activities and enable students to have a better classroom experience. By clarifying the connection between artificial intelligence and English teaching, vocational colleges have discovered the convergence points between the two. Through the flexible application of artificial intelligence technology, they have innovated English teaching activities, sorted out writing, listening and other content, helped students master richer knowledge and promoted significant improvement in educational effectiveness ^[9]. On the other hand, teachers need to pay attention to the transformation of teaching thinking, take artificial intelligence technology as the core, build a good teaching system, clarify the importance of English teaching activities and carry out better English practical activities to help students better master English knowledge through the application of this technology. From the perspective of informatization, teachers can gradually form a good online teaching mindset through the flexible application of artificial intelligence technology, innovate traditional English teaching methods, promote the improvement of students' comprehensive literacy and build a good vocational English classroom.

4.2. Utilizing artificial intelligence technology to innovate teaching activities and improve teaching effectiveness

In teaching English subjects in vocational colleges, teachers need to clarify the importance of teaching design. Teachers can use artificial intelligence technology to plan English teaching activities more scientifically, which is conducive to better carrying out teaching activities, breaking the constraints of traditional teaching and allowing students to have a better experience. Firstly, teachers should clarify the subject status of students, encourage them to actively participate in knowledge learning, and achieve better teaching results. Secondly, teachers need to pay attention to the role of their own leadership, carry out comprehensive evaluation activities, enable students to discover their shortcomings and use them as a foundation to utilize artificial intelligence technology better, formulate corresponding teaching plans and enable students to participate

actively in knowledge learning, achieving better teaching results ^[10]. On the one hand, teachers can start from the perspective of teaching design, focus on in-depth exploration of teaching content, better leverage teaching advantages and lay a foundation for the implementation of subsequent English teaching activities for teachers. This requires teachers to adjust teaching activities based on the actual situation of students and achieve better teaching results. At the same time, teachers can also use artificial intelligence technology to select teaching content that meets the actual level of students so that students can have a better experience and lay the foundation for improving their English literacy. On the other hand, in vocational English teaching activities, teachers also need to pay attention to optimizing assessment methods and promoting the improvement of students' comprehensive abilities. Teachers optimize the assessment methods through the application of artificial intelligence technology, making the evaluation results more comprehensive and scientific. In this process, teachers need to adjust their assessment methods based on the actual situation of students, better leverage the role of artificial intelligence technology, conduct comprehensive and multi-angle evaluations of students and form more scientific and accurate evaluation results ^[11]. In short, students can engage in better learning activities, master rich knowledge content, and achieve better teaching results through innovative teaching activities.

4.3. Emphasizing listening teaching and integrating artificial intelligence

In the teaching activities of vocational English, listening teaching is an important content. The traditional listening teaching method is relatively single and the learning effect obtained by students is poor, which is not conducive to the improvement of their listening level. By integrating artificial intelligence with vocational English listening, teachers can achieve better listening teaching results. With the application of artificial intelligence technology, students can better understand listening knowledge and alleviate their learning pressure. For example, in teaching English listening in vocational colleges, teachers can use the flexible application of artificial intelligence technology to carry out better student testing activities ^[12]. Teachers can provide students with corresponding English materials and select reasonable listening teaching content based on their test results. Teachers can also choose appropriate listening teaching content from the perspective of students' majors to enhance their understanding of knowledge. By carrying out these activities, students can deepen their understanding of English knowledge and achieve better effects. Vocational college students have different preferences, and teachers can use artificial intelligence technology to analyze their preferences, better adjust teaching activities and encourage students to participate actively in knowledge learning. This can not only improve their listening skills but also bring joy to learning and achieve better teaching results.

4.4. Using artificial intelligence technology to build a teaching platform and improve the quality of education

Artificial intelligence belongs to the derivative content of information technology. In actual teaching activities, integrating this technology into teaching activities can promote the improvement of educational effectiveness ^[13]. In the teaching activities of vocational English, teachers can integrate artificial intelligence technology with teaching concepts to build a good online teaching environment, enabling students to participate actively in knowledge learning. A good online teaching platform can be built through artificial intelligence technology to provide a basis for English teaching reform. Therefore, vocational colleges can optimize English teaching activities through the use of artificial intelligence technology, laying a foundation for students to engage in independent English learning. On the one hand, teachers can better organize teaching resources and expand English teaching activities through the improvement of online teaching platforms. Under the influence of online teaching platforms, students can better utilize fragmented time, learn more English knowledge and

improve their English literacy. At the same time, teachers can collect student data through artificial intelligence technology, build a good English database, promote teaching innovation and have better communication with students on online platforms, laying a foundation for the development of student English practice. On the other hand, under the influence of online teaching platforms, the connection between online and offline teaching can be strengthened. Vocational colleges can explore English teaching content and deepen students' understanding of English knowledge^[14]. Students can use their free time to apply online platforms for better reviews and deepen their understanding of English knowledge. In short, teachers can achieve better teaching results through the construction of teaching platforms, enabling students to master more English knowledge and promoting the improvement of educational quality.

5. Conclusion

In summary, in the context of the era of artificial intelligence, the application of artificial intelligence technology in vocational English teaching is becoming increasingly widespread and has achieved good teaching results. In the teaching process of vocational English, teachers can use artificial intelligence technology to promote the improvement of teaching quality and ensure the improvement of students' comprehensive literacy^[15]. With the help of artificial intelligence technology, teachers can clarify the student-centered concept, promote the transformation of previous teaching methods and enable students to participate actively in knowledge learning, achieving better learning outcomes. Artificial intelligence technology belongs to teaching aids and teachers' flexible application of this technology can help improve the effectiveness of education. In short, teachers need to start from the background of the development of the times, constantly improve their teaching concepts, promote the organic integration of artificial intelligence technology and English teaching, help students master more practical knowledge and carry out the above activities, which will help improve the quality of English teaching, promote teaching innovation and cultivate high-quality skilled talents that meet the needs of the times.

Disclosure statement

The author declares no conflict of interest.

References

- [1] Liang Y, 2020, Research on the Application of Artificial Intelligence Technology in Vocational English Teaching. *Digital Technology and Application*, 38(1): 51–52.
- [2] Xian X, 2017, How to Enhance Students' Interest in Learning in English Classrooms. *East West North South: Education*, 2017(11): 122.
- [3] Yang M, 2022, Application of Blended Learning Mode in Vocational English Teaching. *Knowledge Library*, 2022(15): 115–117.
- [4] Gan W, 2023, Exploring the Path of Combining Artificial Intelligence Technology with Blended Teaching of Vocational English. *Shanxi Youth*, 2023(17): 105–107.
- [5] Cui Y, 2023, Ecological Teaching Practice of Vocational English Based on Artificial Intelligence Technology. *Hunan Education (C Edition)*, 2023(9): 57–59.
- [6] Yan Y, 2023, Research and Analysis on the Current Situation of the Use of Artificial Intelligence Assisted Teaching Tools by English Teachers in Vocational Colleges. *Overseas English*, 2023(16): 228–231.
- [7] Yu L, 2023, Research on English Teaching for Textile Majors in Higher Vocational Education under the Background

of Artificial Intelligence: Review of “Practical Textile English.” *Woolen Textile Technology*, 51(7): 134–135.

- [8] Zhang C, 2023, Construction of a Vocational College English Teaching System Based on Artificial Intelligence Technology. *Journal of Hubei Open Vocational College*, 36(6): 143–145.
- [9] Zhang X, 2023, Exploration of the Application of Big Data and Artificial Intelligence Technology in Vocational English Teaching. *Overseas English*, 2023(5): 238–240.
- [10] Jiang X, Zhou X, 2023, Research on the Reform and Practice of Public English Teaching in Vocational Colleges under the Background of Artificial Intelligence. *Journal of Hubei Open Vocational College*, 36(2): 186–188.
- [11] Qiu J, 2023, The Current Situation and Countermeasures of Artificial Intelligence Technology Promoting the Improvement of Teaching Ability of Vocational College Teachers. *China-Arab Science and Technology Forum (in Chinese and English)*, 2023(3): 138–141.
- [12] Feng Q, 2021, Reflection on the Design of Flipped Classroom Teaching Based on Student Learning Ability in the Era of Artificial Intelligence: A Case Study of English Teaching in Vocational Colleges. *Modern Vocational Education*, 2021(49): 126–127.
- [13] Liu B, 2021, Exploration of the Application of Artificial Intelligence in Higher Vocational English Teaching in the Information Environment. *Fortune Times*, 2021(9): 183–184.
- [14] Yin M, 2021, Exploration of Vocational English Teaching in the Context of Artificial Intelligence. *Overseas English*, 2021(1): 117–118.
- [15] Yu S, 2020, Thinking and Exploration of Artificial Intelligence in Higher Vocational English Teaching in the Perspective of “Internet plus.” *China-Arab Science and Technology Forum (Chinese, English and Arabic)*, 2020(5): 188–189.

Publisher’s note

Bio-Byword Scientific Publishing remains neutral with regard to jurisdictional claims in published maps and institutional affiliations.