

Big Data Information System Helps Online System Research and Development of Education Reform in the New Era

Yizhe Zhang
school of Vocational and Technical Education
Shenzhen Polytechnic
Shenzhen 518055, Guangdong, China

Abstract: This paper analyzes the effective combination of extreme curriculum education big data and school teaching reform from the perspectives of teaching management, subject lesson preparation, classroom teaching, after-school tutoring, home-school co-education, etc. It is possible to accurately improve teachers' ability to interpret the curriculum standards and professional level. Especially in the situation of "tight days", it is more necessary to use technological innovation to improve the quality of teaching. Entering higher vocational education in the context of the Internet era, and using artificial intelligence to improve management teaching programs, we should correctly understand the role of artificial intelligence technology in daily life. In the process of education and teaching, teachers should change traditional concepts, adapt to the development of the times to learn new technologies, and improve teaching methods to help students develop.

Keywords: Big Data Information System, Online System Research, Education Reform

1. INTRODUCTION

Advances in machine translation (MT) have been driven by "China's Education Modernization 2035" proposes "accelerating education reform in the information age" and "focusing on building a new education and teaching model, education service supply model and new model of education governance based on information technology" [1]. In order to speed up the modernization of education and the construction of a powerful country in education, and strengthen the concept of talent training based on ability and a new model of education governance" [2].

In order to speed up the modernization of education and the construction of a powerful country in education, and strengthen the concept of talent training based on ability Teaching for maximum development of students" [3]. Differentiated teaching requires attention to students' individual differences while paying attention to the commonality of students. Continuing education in colleges and universities should promote the concept, characteristics and advantages of adult education, keep pace with the times, grasp and use modern mobile information technology, in order to obtain a full understanding of the society and Recognize, quickly and effectively promote the informatization construction of continuing education teaching management, establish a benchmark for continuing education, and create a brand reputation for continuing education [4].

Artificial intelligence is abbreviated as AI. It is a technology that can produce human-like reactions when people interact with machines through computer data processing and multimedia equipment [5]. This technology is widely used in robots, image recognition, language recognition, natural areas such as language processing and expert systems. Artificial Intelligence (AI) is a new technological science. First, it expands educational ideas. In the process of network ideological and political education in colleges and

universities, the use of big data has effectively expanded the overall educational thinking [6].

Through a comprehensive analysis of data and information, explore the nature of information, rather than information dissemination. It is the research and development of theories for simulating, extending and expanding human intelligence (such as learning, reasoning, thinking, planning, etc.) [7], method, technology and application system, mainly including exploring the principle of computer realizing intelligence, and producing a new intelligent machine that can respond in a way similar to human intelligence. By 1945, the population of the United States had reached 139 million, and most of them were immigrants from Europe [8]. In terms of social culture, active nationalism has gradually become a feature of American political and cultural life since the American-British War in 1812. President Jackson came to power to eliminate the power of the eastern elite and to fight for the right democracy for the emerging bourgeoisie [9].

It can be seen from the figure that the function value increases with the increase of the independent variable, namely the user level, and the upward trend becomes smaller and smaller. This is because the highest level of users in this paper is 45 [10]. After the user level reaches a certain level, their trustworthiness is already relatively high, so as the level increases, their trustworthiness changes less. Most teachers use computer-based courseware to teach [12]. Although the utilization rate of educational information equipment is relatively high, compared with the application of modern technology, educational ideas and concepts are still in the traditional education stage. Bless. At the same time, it can effectively solve various problems faced by education and teaching [13].

The analysis and prediction function based on educational big data can provide targeted solutions for school education and teaching problems, so as to improve the quality of education and teaching in rural schools and promote the good

development of left-behind children. In addition to basic indicators such as "highest score", "lowest score" and "average score", "Zhixue.com" also provides a comparison chart as shown in Figure 1 [14], allowing teaching managers to intuitively and clearly see the differences between the seven test classes. Understand the teaching differences of the same teacher in different classes, analyze and summarize the development factors (individual factors of students, teacher-student relationship factors, class coordination factors, etc.) in the process of class growth [15]; Diversity, complexity, and uneven educational levels; the motivation or purpose of learning varies from person to person, updating knowledge, improving skills, charging in the workplace, and improving academic qualifications [16].

2. THE PROPOSED METHODOLOGY

2.1 The Big Data Information System

Although Internet technology is used in school teaching, the use of information equipment in teaching still remains at the stage of converting "small blackboards" into "projectors". Collect, mine and analyze. Teaching resources provide various teaching materials for the effective development of teaching, including teacher resources, teaching aids, infrastructure, etc. On the one hand, the shortage of teaching resources in rural areas is due to the imperfect educational infrastructure and lack of hardware facilities, and the teaching method is not conducive to the improvement of the academic performance of left-behind children. [17].

Understand the teaching differences of the same teacher in different classes, analyze and summarize the development factors in the growth process of the class. For example, in the face recognition technology, artificial intelligence and intelligent monitoring systems are compared in a large database to identify To lock in the target identity, vocational colleges focus on cultivating skilled talents suitable for grass-roots positions. The application of artificial intelligence in all walks of life will bring great changes to grass-roots positions, especially skilled positions. The development of artificial intelligence. It plays a major role in the national security system and commercial security system; in daily life, the bank business counter performs human-computer interaction through multimedia technology. First, start data collection from the perspective of big data awareness.

In the era of big data, the development of online ideological and political education in colleges and universities should pay more attention to the effective improvement of the current data collection work. To realize the structural reform of school teaching, it is necessary to clarify who is the main body of the use of educational information equipment. "Learning as the center" is the essential requirement of classroom teaching reform in the era of education informatization 2.0. However, it is based on the following "three pairs of contradictions". Children who are far away from their parents are very likely to develop poor self-psychological cognition, and they are in urgent need of others psychologically. Under this circumstance, interpersonal communication in the school environment is particularly important, and good campus humanities are crucial to the development of left-behind children's good personality and psychology.

2.2 The Education Reform in the New Era

The quality inspection work in production and manufacturing has begun to be replaced by intelligent inspection robots with

image recognition function; the emergence of unmanned banks and unmanned supermarkets has led to the disappearance of traditional jobs such as supermarket salespersons and bank counter positions. Only in this way can information be obtained scientifically and effectively avoid insufficient data scale and affect the accuracy of data analysis results. In the process of actual education work, it is also necessary to fully understand the current ideological status of college students, and at the same time, combine the students' own activities, speech and behavior and other relevant data to analyze the focus of the current network ideological and political education work.

The recall rate values show a steady increase, and the recommendation effect is obvious (the recall rate is more prominent). While the performance of the baselines tends to be stable, they do not have much advantage in recommending multiple types of attractions, especially the UBCF algorithm. In the future, schools will be smart campuses where information technology and education are symbiotically integrated, and will be fully realized from refined governance to personalized services. The integration of information technology and education can start with the creation of intelligent teaching assistants. Teachers are the bearers and executors of school education. The key to the success of school education lies in teachers. Teacher behavior, teacher effectiveness and teacher quality will all affect left-behind children. influences. First of all, the quality of teachers as knowledge imparters, classroom managers and students' evaluators will inevitably affect the knowledge acquisition of left-behind children.

2.3 The Online System Development for Education Reform in the New Era

In response to problems in school education, educational big data can help left-behind children's school education, improve educational means so that left-behind children can get school education that suits their own expectations, and realize personalized learning for left-behind children through learning analysis technology. Precisely locate the drop point. In the "answering questions" (as shown in Figure 5), different colors indicate the score rate of the students' test papers, and the most striking red in the front is the question with the most points lost by the students. According to this simple diagram, teachers can clearly understand the key points of the lectures at a glance, and effectively avoid the ineffective labor of "talking to the end" and "blind commenting".

Artificial intelligence technology can be effectively applied in university libraries, canteens and student dormitories. The fingerprint recognition system and face recognition system are perfected. Artificial intelligence not only has a profound impact on the training of students in vocational education, but also contributes to vocational education itself. The morphological construction and internal governance of China brought new conditions. With the construction and development of smart campuses in higher vocational colleges. In campus life, students' own living space is relatively narrow, and their social behaviors and lifestyles are very simple. They are basically "three points and one line" life. The relevant data are relatively limited.

3. CONCLUSIONS

School education has a crucial impact on the formation of an individual's outlook on life, world outlook, values, and good will. It is the most prominent part of the future development of left-behind children. Especially at this stage, everything is being explored. How do teachers observe Data, analyzing

data, and how to understand the problems behind the data are all things that need to be considered and faced in the process of school teaching management. Promote precise management and scientific decision-making. After more than ten years of rapid development after being upgraded and established, higher vocational colleges are currently in a critical period of in-depth connotation construction. On the basis of deepening the reform of education and teaching, they have put forward new ideas for the internal governance system of the campus.

4. ACKNOWLEDGEMENT

2021 Ideological and Political Education Project in Colleges and Universities in Guangdong Province: Research on the Construction of Labor Education Practice System in Colleges and Universities (Project Number: 2021GXSZ186)

The 2022 annual project of the "14th Five-Year Plan" of Shenzhen Education Science: "Golden Class" of labor education in vocational colleges (project number: Cgpy 22026).

5. REFERENCES

- [1] Tang Xiaoying. Exploration on the evaluation mechanism of online English teaching in junior high schools from the perspective of "process evaluation" [J]. Overseas English, 2021(18):2.
- [2] Wei Mengjia. my country will build an "Intelligent Basic Education Evaluation System" [J]. Primary School Teaching: Mathematics Edition, 2021(2):1.
- [3] Cao Yuxin, Jin Li'an, Fang Shitao. Development and application of rail transit BIM life cycle management system [J]. China High-tech, 2022(5):5.
- [4] Yin Xianhua, Li Yue. Research on the application of big data in informationization in the new era in the internationalization of colleges and universities [J]. Curriculum Education Research, 2020(32):2.
- [5] Wang Yuqi, Chen Yongheng. Research on smart teaching mode in the context of big data era [J]. China Informatization, 2019(1):2.
- [6] Tang Xiaoying. Exploration on the evaluation mechanism of online English teaching in junior high school from the perspective of "process evaluation" [J]. 2021.
- [7] Fu Zhenqiang. Big data helps school education and teaching management [J]. Hubei Education: Government Publicity, 2020.
- [8] Wang Chunping. Give full play to the advantages of information technology to promote the development of education—excellent governance based on school system reform [C]// National Teacher Research Fund for Scientific Research Achievements 2019 (8). 2019.
- [9] No. Development and application of cadre big data system to empower the construction of cadre team in the new era [J]. Reference for Party Courses, 2022(11):3.
- [10] Liu Jin, Shen Junru. The basic platform of intelligent operation and maintenance helps the development of auto finance business [J]. Financial Electronics, 2022(5):2.
- [11] Wang Rui, Gu La. The exploration and practice of the new business innovation talent training model of "financial management + big data" [J]. Science and Technology Innovation and Brand, 2022(5):3.
- [12] Chen Debao, Bai Xueling, Zhang Zhanzheng. Research on integrity risk and prevention and control measures of college logistics system in the new era: Taking Henan University of Traditional Chinese Medicine as an example [J]. University Logistics Research, 2022(1):3.
- [13] Ding Suying, Wang Xin, Sun Xiaohong. Discussion on online and offline hybrid teaching based on the background of big data cloud computing--taking the course "University IT" as an example [J]. Journal of Weifang University, 2021, 21(2): 5.
- [14] Wu Hong. The application of big data in the informatization of college education in the new era [J]. Digital Design, 2020, 9(3):2.
- [15] Ding Jianghui. "Informatization + Big Data" Helps Promote Supervision and Discipline Work in the New Era [J]. Economic Vision, 2020(21):1.
- [16] Zhang Jingxi. Research on the effective path of big data audit work in the new era [J]. Business Intelligence, 2022(24):3.
- [17] Ni Na. Discussion on how smart parks can realize investment promotion and operation assistance [J]. Market Weekly-Theory Edition, 2022(3):4.
- [18] Tang Xiaoling. Research on the Blended Teaching Mode under the Background of "Digital Intelligence"—Taking the Course of "Dynamic Web Development" as an Example [J]. Mobile Information, 2022(1):3.