

Educational Management Reform in the Big Data Era

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Abstract: The term "big data" has been mentioned more and more. People use it to describe and define the massive data generated in the explosive era of information. The rapid expansion of data also determines that the rhythm of our lives is being swallowed up by the era of big data. Maybe many people do not feel the impact of big data on us, but as time goes on, all aspects of our lives are affected by it, and education is no exception. The progress of science and technology has brought Internet computer technology into millions of households, and the era of big data has become an indispensable part of our lives. Big data has the following characteristics: the first is a large number; the second is high-speed; the third is diversity; the fourth is value; the fifth is dynamic; in such a background, we need to combine the traditional education model with the current big data to make corresponding changes, so as to promote education in line with the changes of the times.

1. Introduction

In the era of big data, the dynamic classroom presented by education management has made education management have different working methods, promoted the development of education in the context of the new era, brought new opportunities and challenges to education, thus laid a certain foundation for the great rejuvenation of education.

The dynamic nature of teaching. The teaching quality of the school will be greatly improved in the background of big data technology. The classroom is no longer boring. Teachers can manage classroom teaching more flexibly by using big data technology. Vivid teaching content is not the battlefield of a teacher alone, but the key point of establishing classroom interaction between teachers and students [1]. It changes the traditional boring classroom where only teachers teach, and improves the quality of teaching. Teachers talk vividly, students listen carefully, and occasionally there are some interesting classroom interaction to improve work efficiency [2]. Big data brings different work experience to education and provides more technical support to teachers. Teachers can also use big data platform to find the teaching materials they want, improve their teaching quality and stimulate students' interest in learning [3]. Not only can they get more teaching resources, but also can they make students learn more. Grow up in a healthier environment.

(2) Sharability of teaching. Students' high-quality academic performance can not be separated from high-quality teaching resources and teachers' team. If the teachers' team does not have high-quality teaching resources, the quality of the classroom will be greatly reduced. To improve the teaching quality, we need to rely on the big data platform to find high-quality and suitable teaching resources, so that the classroom is more lively, but also help students to reserve knowledge. There are some differences between students and teachers. Teachers in the process of teaching can not think of a single teaching good or bad, but to make students willing to learn, classroom interaction, highlighting their own teaching methods. Every student is a unique individual, and the problems are diverse. Teachers can not observe and analyze each student one by one in the limited teaching classroom. But big data can make up for the shortcomings of this teaching, so that students can learn independently at home, see their own shortcomings, and take the initiative to repair their shortcomings [4]. In addition, teaching resources and teaching teams in remote mountainous areas are scarce, so many children lose the opportunity to learn. In the current Internet, these problems do not exist. Internet technology can be used in distance teaching, so as to improve students' learning literacy, so that children in mountainous areas can also receive high-quality teaching resources in cities [5].

Interaction between teachers and students. Teachers should have a good interaction with students in the process of teaching. In traditional teaching, teachers are blindly teaching, students are in passive learning and knowledge digestion, there is no good interaction between teachers and students. With the development of Internet technology, teachers can make good teaching plans and establish interesting classroom interaction. Teachers and students are no longer passive.

2. Effective Strategies for Improving Teaching Management with Big Data

(1) Improve teachers' teaching quality. To improve the quality of teaching, teachers must master multimedia information technology skillfully and improve their teaching quality. We should advocate the use of multimedia in teaching classes and master the basic ability to find teaching resources. It is the duty of teachers to give students guidance and solve learning problems. The proficiency of multimedia information technology has a direct impact on the quality of classroom teaching. Realize the storage mode of warehouse, have a clear division of data, ensure the correct use of teaching resources. It is not only limited to teaching resources, but also more important for teachers to have their own individualized teaching methods, abandon the traditional education mode of thought, create innovative classroom teaching, and improve the overall teaching quality.

(2) Improvement of evaluation methods. A good teaching evaluation method can enable the teaching team to find the shortcomings in the teaching work more effectively in the management process, so as to solve one-to-one problems and improve work efficiency. In traditional teaching, the evaluation of teaching work is too rigid to have a complete and accurate evaluation of the entire teaching team. Thus, teaching evaluation falls into a state of dead circle, and the shortcomings in teaching work can not be solved in time, which leads to the slow progress of teaching work. But there are big data, the way of teaching evaluation has changed a lot, and more high-quality evaluation methods are included in the teaching evaluation. All-round evaluation of students' learning ability, effectively improve students' comprehensive learning ability. Combining with high-quality teaching resources, establishing effective evaluation methods can truly make accurate judgments on students' learning ability. It can also accurately judge students' real performance, so that students can prescribe the right medicine, effectively make up for their shortcomings, and improve the quality of the whole teaching team management.

(3) Data-based management model. The construction of information data warehouse and the development of data management mode under the support of large data. In the teaching activities of teachers, we can clearly and stereoscopically analyze the rationalized resource management objectives of our own teaching content, and promote the improvement of the teaching system. Combining with different classroom needs, we can improve teaching resources and provide more humanized information learning platform. In the construction of information model, teachers should correct their teaching attitude and management ability, provide students with efficient educational resources, fully explore the benefits of big data to teaching work, ensure that the data management model plays a decisive role in teaching, and promote the vigorous development of education.

3. Conclusion

With the advent of information and data era, teaching activities have been reformed again and again. Under the background of big data, the teaching management mode is gradually improved. Advanced scientific and technological means are widely used in education. The reform of education management can not be separated from information digitalization. The combination of the two also makes a qualitative leap in the quality of education.

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