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# Research on Talent Training Mode of Applied Big Data Specialty in Higher Vocational Colleges

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***ABSTRACT.*** *With the rapid development of science and technology, now we have come to the era of big data. At present, big data technology has gradually penetrated into people's lives, and penetrated into all areas of life. With the rapid development of big data technology, the society also needs corresponding talents. Therefore, the major vocational colleges and universities should comply with the development of the times, and strive to cultivate technical application-oriented talents. Colleges and universities are in the process of continuous practice and exploration. First, the university should make efforts to analyze the development of big data industry; second, the university needs to discuss and study the difficulties faced by the relevant majors of big data; third, the cultivation of big data professionals needs to establish a complete mode, and put forward relevant strategies to give the university professional construction Reference.*

***KEYWORDS:*** *Higher vocational colleges, Vocational education, Big data, Teaching system*

## 1. Introduction

With the rapid development of the Internet, big data has become an indispensable part of the current era. As far as the current situation is concerned, the rapid radiation of computers to all walks of life is bound to produce relevant professional institutions that use big data objects. At present, the lack of relevant talents in the society also makes the research on the training mode of big data talents of great significance.

## 2. Big Data Development

### *2.1 The Big Data Industry is Developing Rapidly*

The rapid development of computing technology provides conditions for efficient processing of big data. As far as the current situation is concerned, the

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development of big data has become the focus of the corresponding technology enterprises. Since 2020, the U.S. government has announced that it has invested a lot of money into big data research and development programs. At present, nearly 90% of Fortune 500 companies in the United States have begun to plan to launch big data application projects. In China, 2013 is called the first year of big data, and in this year, Chinese enterprises have begun to pay attention to the application of big data.

### *2.2 Industry Talent Demand*

In fact, the so-called big data technology is an interdisciplinary technology. In essence, big data is a content that needs to be processed, and its data content comes from various fields, such as commerce, commerce, finance and so on. It can be seen that big data practitioners must have relevant theoretical knowledge in various industries. At present, a more obvious prominent feature of big data display is that the content is too rich to be processed by computer. If you want to realize the application of big data, you must develop a new algorithm for big data, and find useful value information from the wave of big data. In addition, the development of the Internet and mobile Internet also makes the data format more and more rich. All kinds of data come together in different forms, which brings great challenges to the corresponding practitioners to obtain favorable information from the data.

### *2.3 Lack of Talents in Related Industries*

In fact, the rise time and development time of big data technology are very short, because its development speed is too fierce, it leads to the shortage of big data practitioners. 19-1 big data technology is a multi scientific field, which contains many principles, such as data storage, algorithm design, etc., which directly leads to the transformation of most of the relevant staff engaged in big data technology from it engineers, which also causes great limitations in the process of big data processing. The demand for big data professionals will increase with the development of the times, which also leads to the establishment of big data major in Colleges and universities in China.

## 3. Dilemma of Big Data Major in Higher Vocational Colleges

Since 2016, China's education department has begun to approve new big data majors in Colleges and universities, which also marks the budding development of big data related majors in Colleges and universities. With the rapid development of big data technology, there are still many problems in the establishment of corresponding majors in universities.

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### *3.1 Insufficient Hardware Equipment*

Because of the huge content of big data, the most important standard of its application is to require fast data processing. If you want to achieve fast information processing, you must have absolute hardware facilities as support. In general, ordinary computer performance can not support big data operation. At present, most of the laboratory machines in Colleges and universities are very old, and the equipment is backward, which can not meet the high-speed operation requirements of big data processing.

### *3.2 Weak Teachers*

Because big data technology is a new technology content, most teachers in Colleges and universities are exposed to relevant content knowledge for the first time. Its principle and operation content are very unfamiliar, and in the field of information technology in-depth understanding of the degree, and can not master the corresponding theoretical knowledge. In addition, the teaching tasks of teachers in vocational colleges are very heavy. Many classrooms have no time and no heart to accept and learn new knowledge, which leads to many teachers still using the traditional teaching mode to teach students old knowledge. In fact, these knowledge can not keep up with the development of the times. In the modern computer technology, students learn These contents can not meet the application requirements of modern big data technology.

### *3.3 The Quality of Students is Different*

With the improvement of people's living standards and the continuous development of social civilization, the major vocational colleges are facing the crisis of student source, the enrollment situation is not good, and the quality of students enrolled is also different. For example, Jiangsu Province in the admission of higher vocational students, usually carry out unified enrollment, single enrollment and other forms of enrollment, although can recruit many students, but the level of cultural differences of these students is huge. In reality, the application major of big data technology requires students to have high comprehensive quality and learning ability. In the face of the actual situation of students, the school still faces great challenges in setting up big data major.

### *3.4 Shortage of Teaching Resources*

As far as the current situation is concerned, big data major has been opened in undergraduate schools for nearly two years. For a major, the opening time of two years is relatively short. Major colleges and universities are still in the exploratory stage in terms of teaching mode and teaching resources, so there is no fixed teaching mode and teaching strategy. Since 2017, the major of big data technology learning

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has been named big data technology and application. Even so, the education of this technology and major in Colleges and universities is still in the exploratory state, and there is no rich teaching resources.

## 4. Improve the Talent Training Mode

### *4.1 Improve the Talent Training System of Big Data*

If we want to improve the teaching quality of big data major, we need to set up and formulate a perfect talent training system. To establish a new major, the first thing to consider is the market demand of the major in social development. In this way, the university should investigate the social demand according to the actual situation, and see the demand of big data technology talents in different regions. In addition, the master skills of big data posts also need to be understood, so as to better understand the key training contents in the process of technical personnel training, and list the skills of the post, so as to transform the corresponding skills into courses with the help of the list. When conducting the research, we need to rush to enterprises, markets and government agencies. The survey content is comprehensive and extensive. At the same time, we can go deep into big data enterprises such as the Yangtze River Delta, so as to further clarify the corresponding objectives and positioning of big data technology personnel training, and further refine the curriculum system and content requirements of talent training.

### *4.2 Strengthen Close Cooperation with Big Data Enterprises*

As far as the current situation is concerned, the important form of running a school in most higher vocational colleges is school enterprise cooperation. On the one hand, for big data major, the school needs to increase the exploration of enterprises. In order to make up for this situation, colleges and universities can only make up for the shortage of equipment by cooperating with enterprises.

### *4.3 Improve the Level of Teachers*

If we want to further improve the teaching quality of big data technology application specialty, we must first create a high-level teaching staff. This major is a complex specialty, so it is required that the teachers must understand the relevant theoretical knowledge, and at the same time, they can bring the theoretical knowledge into full play combined with practice, and master a variety of theoretical guidance abilities such as introduction and statistics. According to the current situation, most of the teachers in higher vocational colleges do not have the conditions and ability to open the major of big data technology and application. If colleges and universities want to set up corresponding majors, they must implement the talent training plan of internal training and external introduction, so

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as to let more young teachers live in enterprises to study, so as to cultivate a strong teaching team. In addition, the school can also store and cultivate a large number of big data professional teachers in this way to study in enterprises, and the effect of this kind of learning is obvious. In addition, the school can also introduce some part-time enterprise engineers in the school, so as to further expand the teaching staff.

### *4.4 Carry out Cloud Classroom Teaching Reform*

With the rapid development of information technology, teaching informatization has gradually stepped into higher vocational colleges. A variety of teaching forms have brought a variety of teaching options for teachers. At present, cloud classroom explanation teaching has become a highly respected teaching mode in schools. At that time, the course can be transmitted to the network platform in the form of micro lecture, and then students can view the corresponding content by using the client, and operate the cloud classroom teaching video by using the teaching software. This kind of teaching method greatly improves the learning efficiency of students, and the novel teaching method also makes students more willing to participate in the learning process. Therefore, the school should actively apply this teaching mode to the teaching of big data technology and application specialty, so as to improve the learning efficiency of students.

## 5. Conclusion

With the rapid development of big data technology, there is a huge gap in the social demand for applied big data professionals. In order to meet the needs of social development, colleges and universities should actively cultivate the corresponding technical talents, set up corresponding majors, and improve the talent training mode, so as to provide more excellent talents for the society.

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