

## **Research on the informationization of college students' management under the perspective of big data**

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**Keywords:** Network technique; Big Data Background; College students; Management Informatization

**Abstract:** With the rapid development of the times and the renewal of science and technology, the overall economic level of our country has been significantly increased. Now the development and popularization of Internet technology in our country indicates that the era of big data network information is coming. This paper stands in the perspective of network data, aiming at the high and change of information management of college students in our country nowadays, and carries out in-depth research on information management of college students in our country.

### **1. Distribution of Information Management for College Students**

(1) Archives of colleges and universities. It refers to the important basic work of colleges and universities, which should be strengthened and integrated into the overall development plan of colleges and universities. At the same time, it is also a service work in the process of management. Therefore, it is very difficult to produce direct economic benefits in the real interests of life, even in the process of information management in Colleges and universities, its main task is to assist others in their work.

(2) Informatization of archives in Colleges and universities. It is to build a database and network as the central body, to transform the archives information collected by the archives department into digital information stored in magnetic media and other carriers, through computer networks and customer terminals for effective use, management and sharing, and to implement efficient storage and integration of University archives; to improve the efficiency of collating University Archives and to collect and manage university network information. We should provide a more comprehensive social service system.

(3) Archives information management in Colleges and universities breaks the limitation of time and space of original archives information, and shows people a brand-new three-dimensional archives information management system, including the whole process of archives management in Colleges and universities, such as information collection, management, distinction, classification, transfer, maintenance and other management systems. How to adapt to the development requirements and trends of digitalization of document storage brought about by informationization has become the key to the application and sustainable development of information technology in University Archives work.

(4) Big data. Big data refers to data sets that cannot be captured, managed and processed by conventional software tools in a certain time range. That is to say, in the era of rapid development of the Internet, the amount of relevant data is tedious. In the corresponding process of large data information management, most of them are presented with different information concepts.

### **2. The Role of Information Management of College Students in China under the Background of Big Data**

At present, with the skillful application of big data technology in the process of information management of schools in China, the concept of big data has been paid attention to, and all aspects show the remarkable characteristics of big data. Using modern network information technology and managing the archives information of colleges and universities; forming a common information

service system between colleges and universities so that students can inquire, obtain and download the learning materials, courses and teaching resources they really need; and then, introducing the application of information technology into the management decision-making of College students. After the work, it provides data support and basis for managerial decision-makers, which can effectively play a role in helping management, and provide more comprehensive learning methods for college teaching, enrich students' learning materials and different forms of culture, thus forming a quantitative model for college management and greatly improving the management efficiency of College students. Even in the use of the Internet, some students have surpassed teachers in network application technology. Even when teachers sometimes fail to provide adequate answers to students' questions, students can also provide excellent answers. Nowadays, in the application of information technology with big data on the Internet, teachers are no longer the dominant ones in the past education process, and the quality teaching concept has gradually developed towards the direction of information technology.

As a result, the teaching mode, teaching form and mode between teachers and students have also changed in concept, and will not develop like the original teaching mode. Finally, in the process of continuous improvement, the university management information platform system in China has realized five basic models: video update and download, video online viewing, online discussion message, related forum technology exchange, private space and so on.

### **3. Challenges and Problems in the Management Information of College Students**

In the process of College Students' information management, the construction of information concept is an important aspect of college information construction. The development of informationization depends on the progress of ideas. Only by establishing correct informationization ideas can we promote the rational and orderly development of informationization construction. Challenges faced by the process of information management in Colleges and universities in China. Just like the lack of excellent technicians and highly equipped software and hardware can not solve various problems in the construction of information technology. With the continuous innovation and opening up of education in China, the information of college students in China is increasing, which makes it difficult to integrate and store information management effectively and timely. Information management is not so simple as the purchase of computer hardware and software. In the process of promoting the development of information technology in Colleges and universities, there are still many backward and outdated ideas, which seriously affect the development of information construction. And because of the gradual weakening of College Students' awareness of network information management. In the corresponding practice process of information management in Colleges and universities in our country, universities themselves are constantly innovating and exploring to produce new understanding. The soft strength and hard environment of University Students' information management can not match. If only relying on the unilateral attention of university information management departments, student management information is still difficult to achieve. Most colleges and Universities have information construction. The importance awareness is not high, ignoring the idea of personnel at all levels in Colleges and universities, i.e. information management equipment, network development software and formulation of relevant information management policies, the quality of personnel in the relevant management can not meet the management needs, which is also the biggest management problem hindering information management in China.

### **4. Information Management Measures for College Students in China**

#### **4.1 Establishing relevant laws and regulations on information management in Colleges and universities in China.**

In 2008, the Archives Bureau and the Ministry of Education of our country have issued the

corresponding management norms of “Measures for Archives Management in Colleges and Universities”. However, traditional teaching management requires manual processing of all kinds of information generated in the teaching process, which requires a lot of work, repetitive work and inefficiency. Colleges and universities can consider setting up a comprehensive information center to grasp the direction and path of information transformation in Colleges and universities. And better realize the efficient use of university information management, promote the development and Realization of student information management with better stability and efficiency.

#### **4.2 To adopt the most advanced management information method at present.**

1) Use cloud computing technology. The core of cloud computing is very similar to utility computing and grid computing. It also hopes that IT technology can be as convenient as using electricity, with low cost and strong storage capacity. Users only need a computer or a mobile phone to implement it in the process of using it. At the same time, its characteristics lie in the mining of massive data, but it must rely on the distributed processing of cloud computing and distributed database. Cloud storage and virtualization technology.

2) Using data mining technology. Its characteristics lie in the discovery of massive data, but it must rely on cloud computing distributed processing, distributed database, cloud storage and virtualization technology. The information management mode of university students has entered the big data era of our country at present. In this era, the data and information can be analyzed scientifically and effectively by analyzing the relevant knowledge level of network technology and the status of data collation, and then the related information can be analyzed and processed to the unified information processing system, and the information can be extracted according to the actual needs of users. It provides more personalized services.

3) Use electronic tags. In fact, electronic tag is an information system chip, which can identify individual very specific objects. By using radio frequency and reading data through external materials, it can read multiple objects. In addition, the amount of information stored is also very large. It can input student information into fixed chip, manage file information automatically, process information quickly and improve work efficiency.

#### **4.3 Constructing a unified information management system.**

College teaching informationization refers to the process of making full use of information technology and modern educational teaching ideas, methods and means to carry out teaching, so as to make all links of teaching informationized, so as to improve the quality and efficiency of teaching, and ultimately realize the modernization of teaching, which is the core component of College informationization.

### **5. Conclusion**

Based on the analysis of the information management of college students in the context of big data in China, we can fully realize that the information management archives of colleges and universities are the fundamental and related foundation and key to the development of colleges and universities. The significance of research and application of big data technology lies in using big data to navigate school education information management, predict teaching effect and students'future development trend. In the process of promoting the humanization of University Students'information management, it directly reflects the concept and requirement of “student-oriented” put forward in university information management, and also provides more comprehensive and diversified services and fine management of related information for students' study, life and future career planning.

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