Analysis of Computer Big Data and Cloud Computing Network Technology

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Abstract: With the continuous development of the society, the science and technology are constantly improving, and the emergence of computers has greatly facilitated people's daily life. At present, the application of computing and data processing in the development of computer industry has become quite important. It will develop in a fast speed in the process of future development of computing and data processing. Through big data analysis and cloud computing network technology, the current information data can be processed more efficiently. At present, it is of rapid development of information technology, the computer technology has become the trend of the times. It should conduct in-depth analysis and research on computer big data analysis and cloud computing network technology during development.

1. Introduction

The computers have greatly facilitated people's daily life, and the computer industry has also developed rapidly. It is completely inseparable from the Internet and people's daily work and study. Due to the development of the times, people pay more and more attention to information and data. How to deal with data and information more efficiently? It has become the focus of current research. Computer big data and cloud computing play a very important role in the process of data processing. Through computer big data analysis and cloud computing network technology, data can be efficiently retrieved, processed and transmitted, which transforms the single computing mode of traditional computers, which provides faster and more accurate data processing.

2. Definition of Big Data and Cloud Computing

Big data is simply a data message that cannot be captured by conventional methods. In the process of collecting and summarizing large data, a new data processing method is needed, which requires decision-making and far insight. With the continuous development of the times, the big data is also changing. At present, the big data presents a diversified development trend, and it is very obvious in the development. The structure of big data is more complicated, the data is generated very fast, and the value density of data generated is low.

Cloud computing is obviously from big data. Cloud computing is a kind of computing method. In the process of computing, cloud computing can combine many different computing methods to facilitate utility computing, parallel computing and distributed computing. Cloud computing, to a certain extent, can be said to be the product of the development of the times. Cloud computing fully integrates computers and network technology.

3. The Urgent Needs and Importance of Data Processing Capability

3.1. It is conducive to the complete and accurate reflection of objective condition.

The use of data processing can be more efficient in data analysis and processing, and can ensure the integrity and accuracy of the data, and provide data support for the subsequent data analysis reports. The accuracy and completeness of the report is very important for data analysis. If the report is not complete enough and the data is not accurate enough, it will directly affect the subsequent related research. But it can avoid this by taking advantage of data processing. In the specific development process, we should ensure that on the basis of seeking truth from facts, a large

number of data are analyzed and counted. At the same time, various sophisticated data analysis should be adopted to ensure the scientificity and accuracy of the data. Therefore, we can compile various data analysis reports. The accuracy and scientificity of the entire data analysis report can be effectively improved.

3.2. It is conducive for the data's development and utilization.

With the continuous development of the times, people will generate a large amount of data information in their daily work. When process these data information, not only must we carry out efficient analysis and processing, but also carry out different types of data analysis and calculation according to the specific situation of the data. For example, the most common analytical algorithms currently available are the sample survey method and the census method , through which data can be effectively collected in a diverse way. After further processing and analysis of the data, it can better carry out multi-level development and utilization, which can ensure the diversity of data, and can be more efficiently integrated to some data.

Under such background, current data analysis has become a service, and has been fully utilized in the society. The concept of service-oriented development can promote the improvement of social economy. Although the service-oriented concept has bright future, there are still some problems in the development. It is rather difficult for the complexity of model management and the development of basic service models, which are the challenges currently faced by the industry. It should continuously improve and optimize the service according to the specific situation of current social development, so as to better apply to the society.

3.3. It is conducive to the realization of scientific management and statistical decision-making

In the process of management and statistics, if it has abundant data, it can effectively improve the efficiency of management and statistical and promote the development of relevant departments efficiently. In the process of management and statistics, it should analyze data according to the data in the databases, and fully utilize the data. Through the analysis of the data, it can be seen the inherent problems, which helps improve the perceptual knowledge of the data to the rational level, so as to achieve a qualitative leap. In the process of analyzing the data, the relevant departments can discover the internal relationship of things, so as to better grasp the laws of things. It can carry out data management and analysis more efficiently through this way.

3.4. It is in line with other requirements.

Data processing is complicated, and it will be involved in many fields in the process of development. Data processing plays a good role in promoting the development of various fields. It should firstly guarantee the quality of the data. The quality directly affect the value density and the scientific nature of the data. In addition, it should also pay attention to the authenticity of the data. The emergence of big data has promoted the development of science and technology in China. Scientists can establish corresponding research models through abundant and diverse data, and enrich research methods and improve research efficiency as well.

4. The Advantages and Disadvantages of Big Data

From the current development, although big data has great potential in the future development, there are certain defects during the process.

The biggest advantage for big data is for visual analysis. People will be more sensitive to some of the data visible to the naked eye in the process of cognitive information, so visualization is absolutely a great advantage of the development of big data. Through the characteristics of visualization, people can see the internal structure of data intuitively and clearly, thus providing people security psychologically.

Data mining algorithm in data analysis is also an advantage for large data analysis. In the process of the development of the times, it will generate a large amount of data information. Different methods are needed in order to process data information more efficiently, and data mining algorithm

can best reflect this principle. The data can be displayed more clearly and intuitively in front of people, and the whole data analysis process will be more valuable as well.

From the current development, big data is a very hot topic. When search big data, people are more concerned with the predictability of major data. Big data analysis and prediction can be widely used in various fields. In order to fully reflect the predictability of large data, it is necessary to scientifically and effectively analyze the current data memory on the basis of data model and new data in the specific research process to predict the future.

The semantic engine in big data analysis is to extract the key information in the data, so it can improve data analysis effectively and guarantee the scientific validity of data analysis.

The above mentioned are the advantages of big data analysis, but in the specific development process, there are some disadvantages in big data analysis. First and foremost, one of the most serious problems is that personal privacy information cannot be effectively protected, which will have a more serious impact on people's daily lives. At present, the information technology is under rapid development. The emergence of big data can make information share efficiently. At the same time, people's personal privacy information may also be shared. Some illegal parties will take advantage of the private information to carry out telecommunication fraud, which not only affects people's daily life, but also cause property loss to people.

With the continuous development of the times, false information has become a headache for the government. The big data has caused many data information to be uploaded to the social network platform after it has not been verified. Some people will make exaggerated promotion of it, which will cause some false information. The false information will not only affect people's daily life, but also cause some social panic, even lead to some more serious malignant events. It will affect the stability of the network and also mess up people's daily life. Thus, date is double-edged sword in the process of development. If it is used properly, it will provide better services to people, but if it is misused, it will directly destroy people's normal life.

5. Advantages and Disadvantages of Cloud Computing Network Technology

Cloud computing also has great advantages in the development process. First of all, cloud computing can effectively reduce costs. The entire running process of cloud computing can be done in the cloud, so there is no need for too much computer software. Cloud computing does not require programs during its operation, and the entire process becomes more efficient. With cloud computing, the security of data storage can also be effectively improved. In the process of data analysis and storage, it is ineviTable that data will be lost due to related problems such as hard disk, but it will not make it happen by full application of cloud computing network technology. Even if data loss occurs, it can be recovered in the first place. Therefore, during the development, there is no need to worry about data loss.

Although cloud computing network technology has great advantages, there are some disadvantages in the development. First of all, the most serious problem is that security cannot be effectively protected. The storage space of cloud computing is almost infinite, so there are a large amount of data information which can be stored. However, there is no effective guarantee for data security. When a user applies a public cloud to upload some data information, it may be seen by others, which may lead to the disclosure of personal privacy.

Secondly, cloud computing network virtualization is also risky. Due to virtualization technology, there may be many uncertain factors in the specific application process, which will cause some changes during network operation. The security of data information can not be effectively guaranteed.

6. Conclusion

In conclusion, with the continuous development of the times, science and technology are developing rapidly, and the emergence of computer technology has greatly facilitated people's daily life. The big data analysis and cloud computing network technology play an extremely important

role in the development of various fields of society. Therefore, it should conduct in-depth analysis and research according to the current issues existed in the development, and formulate corresponding solutions, in order to promote the better development of information industry in China.

References

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