

The Application of Artificial Intelligence and Cloud Computing in Colleges and Universities in the Era of Big Data

Jun Xi

¹ Xinyu University, Xin Yu, Jiang Xi, 338004, China

Keywords: Big data era, Colleges and universities, Artificial intelligence, Cloud computing

Abstract: Leapfrog development of information technology and Internet technology has promoted the prosperity of my country's economic market and has also enriched my country's higher vocational education. The era of big data with the rapid development of artificial intelligence and cloud computing based on computer information has arrived. There are certain problems in current higher education teaching. This article summarizes the teaching problems in colleges and universities, and puts forward some thoughts and opinions on the teaching of Universities and colleges in the era of Internet big data based on information fusion of cloud computing and artificial intelligence. Talent training provides certain help.

1. Introduction

The development of artificial intelligence requires big data and cloud computing to provide certain theoretical support and data support. At the same time, the development of big data and cloud computing can also provide certain favorable factors for the breakthrough of artificial intelligence development, which is one of the core strengths of its development. One. With the rapid development and improvement of science and technology as well as Internet technology, my country's artificial intelligence currently has a very good development space and development environment. In order to better develop artificial intelligence, it is even more necessary to coordinate the development of big data and cloud computing technologies to provide a steady stream of power and help for the good development of artificial intelligence. The way for artificial intelligence to store information and knowledge is to use the massive amount of information in the cloud to obtain, and use the powerful computing power of big data to promote the accuracy of its own data and improve work efficiency. That is to say, a large amount of data and information are needed to support the operation and development of artificial intelligence, and artificial intelligence can better complete the commands issued by humans through these information and data. To better improve the efficiency of artificial intelligence, it is necessary to improve the data statistics and conversion functions of big data and cloud computing. Big data and cloud computing are the foundation of the development of artificial intelligence, which can promote the development of artificial intelligence to a certain extent. At the same time, the development of artificial intelligence can counteract big data and cloud computing, and promote the progress and development of both.

The initial goal of artificial intelligence was to broaden the path of informatization at that time, and to develop and explore for better information transmission. From the perspective of systematic analysis, artificial intelligence is also a part of computer network science, but artificial intelligence is more inclined to intelligent recognition, computer research, and information symbol operation in research. From simple information transmission to today's continuous development and derivation, the development of artificial intelligence is very rapid. With the continuous deepening of its research, people have more and more expectations for it, and the theory is gradually improved. Judging from the current development situation, artificial intelligence has been able to simulate human form, action and even thinking mode to a certain extent. From the analysis of the theoretical system, when artificial intelligence research to a certain extent, scientific products will have better capabilities. The development of artificial intelligence can greatly improve production efficiency, and reduce human consumption has a very large effect on promoting production. Intelligent recognition is a very important content in the research process of artificial intelligence. The

development of information technology has improved the mathematical operation ability of computers. Intelligent recognition can use the mathematical operation ability of calculation to process data by itself and distinguish related data. This is the convenience brought about by the development of science and technology. Artificial intelligence in the big data environment and cloud computing environment is better to obtain and collect data, and to classify it according to instructions, so as to better promote the development of science and technology. In the research process of artificial intelligence intelligent recognition, scientists also used the knowledge of acoustics and optics to improve the accuracy and efficiency of intelligent recognition.

Under the continuous development of big data, cloud computing, and artificial intelligence, the three mutually promoted and interacted to present a trinity model. The establishment of this model can better promote the better development of production and life, and can contribute to the development of society. Provide help and provide better services to the people. In the current application process, whether it is hospital medical equipment or flipped classrooms in the teaching process, multimedia technology or smart classrooms are closely related to big data, cloud computing, and artificial intelligence. At the same time, big data, The application of cloud computing and artificial intelligence technology has further improved the informatization process of the entire society. The development of big data can bring more information to enterprises, help senior management to formulate strategies Is for the future reform of contemporary enterprises, and help precise and rapid development. Scientists have been committed to the research of artificial intelligence, aiming to better liberate the human labor force, better improve the production efficiency of the whole society, and bring more convenient lifestyles to the people.

2. Cloud Computing Industry Development and Talent Demand Analysis

In the big data environment, cloud computing can be regarded as a supercomputing mode. Cloud computing distributes tasks to resource pools during the calculation process, and then uses a large number of computers to calculate and store data, and use related software for analysis and processing. , Assigned to users according to needs. In the cloud computing model, users can obtain related computing power, storage space, and information services according to their actual needs. Cloud computing can use IT infrastructure to acquire and expand data at any time. At present, my country's cloud computing market has developed to a certain stage. Many Internet companies can use cloud computing network platforms for online storage and various cloud services. Cloud computing is not only used in enterprise development, but also widely used in government work and personal life. In the context of the era of big data, diversified network technologies and related large equipment are widely used in various industries. Therefore, the demand for talents in the process of social development is more urgent. Practitioners in various industries need strong network technology. New requirements have also been put forward for our country's education model.

3. Current Teaching Problems in Colleges and Universities

Although it is proposed in the education reform to keep up with The rapid progress of the modern age and list cloud computing education and teaching as the key teaching content of colleges and universities, in the actual teaching process, some colleges and universities cannot fully implement the guidelines and cannot implement cloud computing related computer teaching content. Although some colleges and universities offer computer-related professional courses, they pay too much attention to theoretical teaching and neglect practical learning. The difference between colleges and undergraduate colleges is that colleges and universities are to better cultivate employment-oriented social talents. In the current teaching process, colleges and universities are affected by the teaching mode of undergraduate colleges. The teaching mode and teaching content are similar to those of colleges and universities. . However, due to the different purposes of cultivating talents between universities and undergraduate colleges, college teachers should abandon traditional teaching thinking in the teaching process, resist the influence of the teaching

methods of undergraduate colleges, strengthen their own teaching ability, cultivate good professional education quality, and improve The teaching level is to face the opinions given by this era in a better state, and to better train students who need social development.

In order to recruit more talents and create more opportunities for students, colleges and universities will adopt a diversified enrollment model when enrolling students. This enrollment model will have certain drawbacks in the subsequent teaching process, and the differences in the learning basis of students are relatively large. Large, large differences in personalities, this is a great challenge to the education, teaching and management of colleges and universities. Therefore, in order to better teach new computer content oriented by cloud computing and artificial intelligence In College and education, There is a strong need to change current management practices concept of colleges and universities, and change the education and teaching mode. This is the primaryandThat we really need to deal with. In addition, universities in our country started late and their development speed is relatively slow. Many educational and teaching concepts and management concepts are not mature enough, and the development time is short. Theories in various aspects are not mature enough to make it easy for Chinese universities in the process of talent training. A variety of problems can easily lead to backward teaching methods and fail to meet the needs of the society. 4 the integration and application of artificial intelligence and cloud computing in colleges and universities in the era of big data

The development of computer and network Internet technology has updated my country's education and teaching equipment and teaching methods to a certain extent. Under the background of the current era of big data, colleges and universities can use teaching resources as the basis for teaching, and use advanced information technology for teaching. Classroom teaching, networked teaching and multimedia teaching and other teaching modes are used for teaching, and cloud computing can be used to realize synchronous learning of classroom content in different majors at different ports. This kind of education and teaching mode can fully improve students' Learning philosophy and learning horizons help to stimulate their learning interest and enthusiasm, help cultivate their open thinking mode, and cultivate their thinking ability. This kind of education and teaching method helps them improve their professional level. At the same time, based on the cloud computing network platform, schools can purchase relevant learning content and materials for students to study and exercise after class, increase the diversification of college courses, improve students' learning database, and better cultivate students' self-learning ability. In the era of big data, colleges and universities should pay attention to the establishment of a network teaching environment in the teaching process, to give students a larger learning platform and to do a good job of multi-level and interactive management to better ensure students' learning.

4. , Summary

With the development and progress of the enterprise information technology, the teaching tasks of Integrated Schools under development of big data have new challenges. However, with the application and help of cloud computing and artificial intelligence technology, colleges and universities can better get rid of the influence of traditional teaching thinking and influence the teaching concept Innovating with management methods is also a historical reform. In the big data environment, the integration and application of cloud computing and artificial intelligence in the teaching process of colleges and universities helps to create a good learning atmosphere, which can better improve the teaching ability and management level of teachers, and promote direct interaction Between a college student and a professor Communication and exchanges help colleges and universities cultivate better talents.

Acknowledgment

The Humanities and Social Sciences Project of Jiangxi Provincial Department of Education in 2020: Research on the path of scientific research to promote teaching in universities based on the perspective of scientific research and education (JY20228)

References

- [1] Zhang Zeang, Wu Jiawei. Research on education information platform based on cloud computing[J]. China Distance Education, 2010(06)
- [2] Cheng Xueqi, Xu Jun, Jin Xiaolong, Yang Jing. Development and Development Trend of Big Data Technology [J]. Science and Technology Review, 2016(8):3-7.
- [3] Su Jun. Application and development trend of artificial intelligence technology [J]. Electronic Technology and Software Engineering, 2018(30):21-28.
- [4] Strictly non. The integrated development of artificial intelligence, data and cloud computing [J]. Hot spot focus, 2016(5):3-4
- [5] Wang Cong, Wang Cuirong, Wang Xingwei, Jiang Dingde. Cloud computing-oriented data center network architecture design [J]. Computer Research and Development.2012(02)
- [6] Li Jiafeng's thoughts on the development direction of the cloud computing industry and the “data zone” model [J]. Shantou Science and Technology, 2011 (4): 16-24.
- [7] Bai Shuhua, Li Suling, Ding Liangxi. The problems and countermeasures of artificial intelligence in the development of education [J]. Science and Technology of Chinese Universities, 2019(5): 94-96.
- [8] Wang Haimei. Building a smart classroom based on big data[J]. Teach and Education, 2019(4): 34