

Vocational Colleges Are Widely Used in Artificial Intelligence to Train Talents After Production and Life

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Abstract: This study discusses the transformation strategy of talent training in China's vocational colleges after artificial intelligence is widely used in production and life. First of all, it introduces the development status of artificial intelligence in China and points out its impact on labor demand. Secondly, it discusses the impact of artificial intelligence on talent training in colleges and universities, and puts forward coping strategies: actively adjusting professional settings, "rebuilding" the curriculum system of traditional majors, and cooperating with artificial intelligence enterprises to establish practical training bases. Finally, this study emphasizes the importance and significance of vocational colleges in the transformation of talent training.

Keywords: Artificial intelligence; Talent training; Education reform; Teaching; Practical training base

1. The development status of artificial intelligence in China

The development of China's artificial intelligence field has undergone great progress. In recent years, the Chinese government has attached great importance to the development of artificial intelligence and introduced a series of policies and measures. At present, China has become one of the important fields of global artificial intelligence innovation and has made many important breakthroughs and achievements.

First of all, China has made many breakthroughs in the field of artificial intelligence. In terms of artificial intelligence technology, China has made great progress in deep learning, image recognition, natural language processing and other fields. China's artificial intelligence enterprises have also shown high competitiveness in the global market. For example, China's artificial intelligence giant Huawei, Baidu, Alibaba, Tencent and other companies have made outstanding achievements in algorithm research and application.

Secondly, China's artificial intelligence industry is developing rapidly. According to statistics, the scale of China's artificial intelligence market is growing year by year, and it is expected to exceed 1.5 trillion yuan by 2025. Artificial intelligence has penetrated into various industries and fields, including finance, medical care, manufacturing, transportation, etc. The application of artificial intelligence technology has brought many new opportunities and challenges, and also has an impact on labor demand.

2. The impact of artificial intelligence on labor demand

2.1 Simple, repetitive, procedural and regular jobs will be replaced, and the demand for labor will decline

After artificial intelligence is widely used in production and life, simple, repetitive, procedural and regular jobs will face the risk of being replaced, and the demand for such jobs will gradually decline.

The rapid development and popularization of artificial intelligence technology have enabled many workflows to be automated and mechanized. Traditionally, some simple and highly repetitive work tasks require a lot of manpower, but with the application of artificial intelligence technology, these tasks can be completed through algorithms, machine learning and automation equipment, reducing the demand for labor. For example, on the production line, many robotic arms and robots have successfully replaced manual assembly work.

In addition, with the continuous progress of artificial intelligence technology, many procedural and regular jobs can also be replaced by artificial intelligence systems. For artificial intelligence, it is relatively simple to perform tasks based on certain rules and

algorithms, and there will be no human errors. In contrast, manpower will be affected by fatigue, emotions and other factors when performing this kind of work, and may make mistakes. Therefore, some work similar to data analysis, financial processing, report collation, etc. can be achieved through artificial intelligence systems, thus reducing the demand for manual labor.

In this case, the decline in job demand will inevitably lead to the unemployment or transfer of some labor. For these laborers who are at risk of substitution, they need to undergo career transformation or further learning and training to adapt to new career trends and needs.

2.2 The expansion of new industries and the emergence of new occupations have increased the demand for high-quality labor

In the context of the wide application of artificial intelligence in production and life, new industrial expansion and new occupations have also emerged, which brings increased opportunities for the demand for high-quality labor. With the continuous development and application of artificial intelligence technology, many traditional industries are undergoing digital transformation, and new intelligent industries have also begun to rise. This trend not only creates a large number of jobs, but also puts forward higher demands on the labor force.

First of all, the application of artificial intelligence has promoted the expansion of new industries. Taking unmanned driving as an example, with the rapid development of self-driving technology, the research and development and manufacturing of driverless vehicles have become a new industrial hotspot. This emerging industry not only increases the demand for talents in relevant disciplines, but also has higher requirements for high-quality labor. Driverless-related work involves sensor technology, computer vision, artificial intelligence algorithms and other fields, and requires a wide range of knowledge background and technical capabilities.

Secondly, the development of artificial intelligence has spawned new professions. Emerging occupations such as artificial intelligence engineers, big data analysts, and machine learning experts have emerged rapidly in recent years and become popular occupations with a shortage of talents. These professions not only need to master a solid technical foundation, but also need to have innovative thinking, problem-solving ability and teamwork ability. The increase in the demand for high-quality labor has attracted more attention and training for students in relevant majors. Vocational colleges also need to adjust their professional settings according to market needs to meet the training needs of new occupations.

3. Countermeasures to deal with the impact of artificial intelligence on talent training in colleges and universities

3.1 Actively adjust professional settings

After artificial intelligence is widely used in production and life, vocational colleges should actively adjust professional settings to meet the needs of talent training in the era of artificial intelligence. From the perspective of professional setting, vocational colleges should pay attention to the professional training related to artificial intelligence and cultivate professionals with relevant skills and knowledge.

First of all, vocational colleges can add artificial intelligence majors, including artificial intelligence software development majors, artificial intelligence application and development majors, etc. These majors can be determined for students' interests and potential, and combined with market demand and future development trends to ensure the cultivation of high-quality professionals who adapt to the development of artificial intelligence.

Secondly, vocational colleges can also adjust on the basis of existing majors and inject courses and practical content related to artificial intelligence. For example, artificial intelligence courses are added to computer-related majors to cultivate students' basic knowledge and skills of artificial intelligence. At the same time, interdisciplinary integration can be strengthened, such as combining artificial intelligence with economics, management, medicine and other fields to cultivate talents with comprehensive quality and interdisciplinary capabilities.

In a word, vocational colleges should actively adjust their professional settings in the transformation of talent training to meet the needs of talents in the era of artificial intelligence. Through measures such as adding relevant majors, adjusting course content, and strengthening cooperation with enterprises, high-quality professional talents adapted to the development of artificial intelligence can be cultivated. At the same time, vocational colleges should constantly update teaching concepts and methods, improve the quality and effectiveness of teaching, and make positive contributions to the cultivation of talents in the era of artificial intelligence.

3.2 Curriculum system for traditional majors"Rebuilding"

After traditional majors are widely used in artificial intelligence in production and life, the challenge is how to keep pace

with the times and adapt to new needs in the process of cultivating talents. Therefore, the curriculum system for traditional majors "Rebuilding" Become an important initiative.

The curriculum system of traditional majors needs to be carried out. "Rebuilding", mainly reflected in the following aspects:

First of all, the basic courses of traditional majors should be improved. With the development of artificial intelligence, some traditional majors need to strengthen the learning of related technologies. For example, in computer science and technology majors, basic courses in the direction of artificial intelligence need to be added, such as machine learning, deep learning, etc. This can improve students' mastery of the basic knowledge of artificial intelligence and make them have better adaptability.

Secondly, interdisciplinary curriculum resources should be integrated. There are many application fields of artificial intelligence, which intersect with various disciplines. Therefore, the curriculum system of traditional majors should draw on the advantages of other disciplines and introduce interdisciplinary curriculum resources. For example, some courses related to artificial intelligence, such as intelligent design and intelligent manufacturing, can be added to the design major to cultivate talents with high comprehensive quality and multidisciplinary background.

Finally, advanced teaching methods and technologies should be introduced. Traditional classroom teaching can no longer meet the needs of modern education. Therefore, teachers should adopt more advanced teaching methods and technologies, such as online education, remote experiments, etc., to improve students' learning effect and ability.

In summary, the curriculum system for traditional majors "Rebuilding" It is to meet the needs of the development of artificial intelligence. By improving basic courses, integrating interdisciplinary course resources, and introducing advanced teaching methods and technologies, the quality of talent training can be effectively improved to meet the actual needs of artificial intelligence applications. This is of great significance to vocational colleges in the transformation of talent training.

3.3 Cooperate with artificial intelligence enterprises to establish a training base

In dealing with the impact of artificial intelligence on talent training in colleges and universities, an important coping strategy is to cooperate with artificial intelligence enterprises to establish a training base.

First of all, cooperation with artificial intelligence enterprises can provide students with contact with actual work scenarios. Artificial intelligence enterprises usually have advanced technical equipment and practical experience, and their cooperation can enable students to participate in the development and implementation process of practical projects, so as to obtain more comprehensive and in-depth knowledge and skills in practice. At the same time, students can also understand the needs and expectations of enterprises for talents through exchanges and cooperation with enterprise employees, so as to better adapt to the workplace environment.

Secondly, cooperation with artificial intelligence enterprises can also promote the sharing and exchange of knowledge and technology. Artificial intelligence enterprises usually accumulate rich technical and practical experience. In the process of cooperation, students and teachers can learn advanced technology and management concepts of enterprises and improve their professional quality and innovation consciousness. At the same time, schools can share their own teaching resources with enterprises to provide effective support and help for enterprises to cultivate talents and solve problems.

In addition, the establishment of training bases in cooperation with artificial intelligence enterprises can also improve the quality and effectiveness of talent training. Training bases usually have a real working environment and simulated work tasks, which can provide students with more realistic training and practical opportunities. Through the exercise in the training base, students can better master and apply the knowledge and skills they have learned, and cultivate the ability and innovation consciousness to solve practical problems.

In addition, the establishment of training bases in cooperation with artificial intelligence enterprises can also promote the deepening and development of school-enterprise cooperation. Through the establishment of the training base, the cooperative relationship between schools and enterprises will become closer and closer, realizing the complementarity of advantages and the sharing of resources. At the same time, close cooperation with enterprises can also help schools understand the needs and training requirements of enterprises for talents, adjust curriculum and training programs in a targeted manner, and cultivate talents that are more in line with market needs.

To sum up, cooperating with artificial intelligence enterprises to establish training bases is an important strategy to deal with the impact of artificial intelligence on talent training in colleges and universities. Through cooperation with enterprises, students can obtain more comprehensive and in-depth practical experience and skills training, promote the sharing and exchange of knowledge and technology, improve the quality and effect of talent training, and also promote the deepening and development of

school-enterprise cooperation. Therefore, it is recommended that vocational colleges actively cooperate with artificial intelligence enterprises to jointly establish training bases to meet the challenges and needs of artificial intelligence widely used in production and life.

4. Concluding remarks

Vocational colleges are widely used in artificial intelligence to cultivate and transform talents after production and life, which is not only a challenge to cope with great changes, but also an opportunity to actively adapt to the needs of the times. By actively adjusting the professional settings, the “reengineering” of the curriculum system, and establishing training bases with artificial intelligence enterprises, vocational colleges can better meet the market demand and cultivate more high-quality talents who meet the requirements of the era of artificial intelligence. Therefore, vocational colleges should always maintain an innovative spirit and a positive attitude in the transformation of talent training, promote the upgrading and transformation of China’s talent training system with the times, and contribute to the transformation, upgrading and sustainable development of China’s economy and society.

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