

How to Improve the Employment Competitiveness of College Students Under the Environment of Artificial Intelligence

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Abstract. With the rapid development of artificial intelligence technology, college students are facing new opportunities and challenges in employment. In the future, there will be disruptive changes in what people work, how they work and the skills they need. The job market will definitely have substitution and creation effects. Employment guidance in colleges and universities should teach students to give play to human's strengths in abstract concept, logical thinking, innovation ability, emotional perception ability, interpersonal communication ability, cultivate students' scientific and technological literacy and humanistic literacy, help them form critical thinking, innovative thinking and systematic thinking, and improve their professional ability, learning ability, communication ability and practical ability. In order to meet the challenges of man-machine competition and cooperation in the future.

Keywords: Artificial intelligence · College students · Employment competitiveness

1 Introduction

With only one sketch, ChatGPT (Chat Generative Pre-trained Transformer) could generated a website code. 10 s to draw a suitable illustration; It can be used to write papers, forms, and even novels.... Today, human society is about to enter the era of artificial intelligence. The mode of labor has entered the stage of automation and intelligence, which has a subversive impact on the economic structure, social structure and production and life style of different countries. Some basic and repetitive tasks are completed by artificial intelligence. The development of artificial intelligence has an important impact on the whole social economy, and then has a series of impacts on employment, including the quantity, quality and structure of employment. Therefore, it is urgent to change the employment concept and employability of college students [1-3].

2 The Impact of Artificial Intelligence on Employment

2.1 The Impact of Artificial Intelligence on Employment

The main performance is "job destruction" and "job creation". On the one hand, artificial intelligence replaces human beings and destroys existing jobs. Jd.com, for example, uses hundreds of robots to pack 200,000 boxes a day in a warehouse the size of seven football fields, with just four employees. At the same time, the development of artificial intelligence technology will create new industries and industries, create new jobs and absorb a large number of labor force. And in reducing the cost of production, increase the income of workers, expand the total social demand, increase the total market investment, create a large number of jobs. This is the creative effect of technological progress. According to McKinsey's analysis, the invention and industrialization of the automobile displaced 620,000 people and ultimately created 7.53 million new jobs [4–6].

2.2 The Impact of Artificial Intelligence on Employment Quality and Employment Environment

In general, AI affects the number of jobs while improving the working environment. On the one hand, while improving work efficiency, we can reduce the difficulty of some posts and change the ability requirements of original posts. On the other hand, it may promote job upgrading, in the form of artificial intelligence technology gradually replacing some lower-skilled jobs. In the process of reducing the difficulty of work and post upgrading, the improvement of employment environment and employment quality is reflected [7, 8].

The employment of college students is undoubtedly affected by the above. But the characteristics of the population mean that the effect can vary. From a macro point of view, most of the new industries, industries and jobs created by the development of artificial intelligence technology will be high-tech. For college students with higher educational background, professional quality and comprehensive ability, the creation effect is relatively greater. From a micro perspective, the work that college students engage in after graduation is more about non-repeatable, non-programmable and non-program cognition Work requires strong conceptual abstraction ability, reasoning and decision making ability, innovation and creation ability, systematic thinking ability, interpersonal communication ability, adaptable ability, etc., which is relatively not easy to be replaced by artificial intelligence [9, 10].

3 Methods to Enhance the Employment Competitiveness of College Students

3.1 Create a Correct Employment Concept

College students should face the employment impact brought by artificial intelligence, give full play to their advantages in logical thinking, abstract concepts, innovation and creation, emotional communication and other aspects as human beings, and do what machines cannot do or cannot do. At the same time, we should make full use of the advantages of artificial intelligence and carry out man-machine cooperation to make up for our own shortcomings.

3.2 Cultivate Personal Qualities

Cultivate the scientific literacy of college students, and bring scientific literacy into the whole process of school education and teaching. Give full play to the role of basic pathways in school education. College students should shape their own internal motivation and learn about artificial intelligence technology, especially about mathematics, coding, big data flow, deep learning and principles of artificial intelligence engineering through classroom learning, practical activities, scientific research, competitions and training, so as to make good use of true knowledge.

Schools should enhance the humanistic quality of education practitioners, integrate humanistic education into professional education, attach importance to the interdisciplinary integration of humanistic education, innovate the teaching methods of humanistic education, and pay attention to the construction of campus culture. College students should attach importance to humanistic literacy courses such as philosophy, history, literature and art, study a large number of classical works and critically inherit excellent traditional culture, and participate in various practical activities related to humanistic literacy in and out of school.

3.3 Cultivation of Thinking Mode

Colleges and universities should integrate critical thinking into daily teaching, form a teaching culture with critical wisdom, and advocate the idea of educational communication and dialogue discussion. Colleges and universities should maintain an open and inclusive attitude, accommodate students' diversified development paths and differentiated growth modes, and create favorable conditions for students to pursue their own pursuits and follow their hearts as permitted by rules. College students themselves should fully realize the importance of critical thinking, stimulate the internal motivation to cultivate their own critical thinking, master the characteristics and levels of critical thinking, and look for every opportunity to improve their critical thinking ability.

Schools should establish a curriculum system suitable for systematic thinking, help students to establish interdisciplinary, interdisciplinary and interdisciplinary knowledge structure with a certain theoretical depth, and integrate systematic thinking training into all teaching links and processes. Cultivate students' self-learning ability, stimulate students' initiative, guide students to extensively read encyclopedia knowledge, and actively participate in various practical activities that can improve systematic thinking.

Colleges and universities should cultivate students' creative thinking, break the boundary of knowledge, expand students' interdisciplinary knowledge and make them integrate. Students should be encouraged to start from curiosity, boldly imagine, explore the unknown and dare to make mistakes. Students should have room to play their "wild imagination" and accumulate growth in small mistakes. We should overcome short-term utilitarianism and pursue higher value orientation. Innovation can drive economic development, but its ultimate goal is not just economic development, but to maximize human value, human freedom and human happiness.

3.4 Ability Cultivation

3.4.1 Cultivate Students' Professional Ability

The development of artificial intelligence technology for professional setting is more urgent for high quality compound application talents. Colleges and universities should pay attention to the training of cross-border talents in basic disciplines and applied disciplines in related fields, take into account the training of cross-boundary talents in artificial intelligence, law, ethics, education, medicine and other fields, adjust the original majors and open new majors.

While ensuring the learning quality of core professional courses, the school should integrate the cultivation of scientific literacy and humanistic literacy as well as the formation of critical thinking, innovative thinking and systematic thinking into all kinds of courses.

Schools should comprehensively use the heuristic, discussion and experiential teaching modes, give full play to the advantages of online learning, let high-quality educational resources can be fully shared, and improve the survival and competitiveness of college students as a whole.

3.4.2 Cultivate Students' Learning Ability

Knowledge updates rapidly in the age of artificial intelligence. New industries and jobs created by new technologies also generate new knowledge and require new skills. Only lifelong learning can equip oneself with valuable knowledge and skills and form core competitiveness.

We should make full use of fragmented time, give full play to the advantages of online learning, and overcome the limitation of spatial factors on learning.

In addition to learning from books and people, we should also take the initiative to learn from machines. Future man-machine collaboration era, to learn.

Take the advantages of machines to complement the shortcomings of human beings, and be good at using the thinking model and basic logic summed up by artificial intelligence to promote human learning and growth.

3.4.3 Cultivate Students' Communication Ability

In the age of artificial intelligence, communication between people will become more important, which is the advantage of human workers. But how to conduct interpersonal communication will also become an important learning goal and learning method. In interpersonal communication, we should respect each other, have a sincere attitude, be good at listening, empathy, and master certain communication skills. In interpersonal communication, it is necessary to master the working principle of the machine, understand the operation procedure of the machine, do a good job in the maintenance of the machine, timely discover the communication problems and solve as soon as possible.

3.4.4 Practical Ability

Schools should set up reasonable training programs, strengthen the importance of practical courses; Introduce enterprises and other employers into teaching practice to help students timely understand the needs of enterprises for talents. College students should adhere to the result-oriented, face the comprehensive and complex problems in practice, plan the learning system, fully combine the basic learning with the applied practice, and practice while learning, rather than study before practice.

4 Conclusion

A really good education may not teach students specific knowledge and skills, but let them in the silent learning, from inside to outside to get infiltration and growth. I hope that in the future, we can use the power of artificial intelligence to practice such education, so that students can have enough competitiveness in employment, realize the value of life in work, and find the true self in life!

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