Cultivation Strategy of College Students' Craftsman Spirit from the Perspective of Artificial Intelligence

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Abstract: With the continuous deepening of artificial intelligence in education informatization, the transformation of education methods and learning methods under various new technologies has great prospects for promoting the research and application of personalized and deep learning in the AI environment. This article mainly studies the cultivation strategy of college students' craftsman spirit in the perspective of artificial intelligence. Based on the current situation of digital literacy, achievement gaps, and outdated knowledge, this article explores new methods suitable for the new environment, such as role change, innovative education, integration of multiple learning methods, and creation of new learning spaces. The further development of higher education in the context of artificial intelligence provides exploration and discovery to serve the future of students. The experimental analysis of this article found that the correlation coefficients of the factors of the scale were between 0.394 and 0.618, which were basically at a moderate level and basically met the requirements of 0.10 to 0.60. At the same time, the correlation between the factors and the total score of the questionnaire was between 0.724 and 0.833. Meet the requirements. The cultivation of craftsman spirit meets the needs of colleges and universities to cultivate new talents, and provides theoretical support for colleges and universities to carry out spiritual and cultural education.

1. Introduction

Attaching importance to education is to attach importance to the future, and to attach importance to education to win the future. Young university students are a precious human resource of the country and the backbone of building a socialist modernized country. The quality of young people is of great importance. In the current environment of social development, it is particularly important to put forward the spirit of craftsmanship in order to successfully transition from a country with a large population to a country with a large population, to realize the transformation from Chinese manufacturing to Chinese intellectual manufacturing, and finally to realize the great rejuvenation of the Chinese nation. This not only conforms to the development of the trend of the times, but also serves as a good medicine for social progress. With the advent of the era of Industry 4.0, traditional production methods and models have been eliminated by the times, innovation has become synonymous with development and progress, and the spirit of craftsmanship and innovation have a relationship between origin and source. Therefore, the spirit of craftsmen puts forward the development requirements of the era.

The establishment of the goals of higher education needs to be based on human development, follow the trend of the times, and constantly reform to improve the comprehensive quality of students
and cultivate their ability to adapt to society [1-2]. At this stage, China urgently needs compound talents with the spirit of artisans that are in line with socialist modernization construction, promoting socialist economic development and its own progress [3]. The report of the 18th National Congress of the Communist Party of China proposes to build a core system of socialist values, stating "... patriotism, dedication, integrity and friendliness." This puts forward requirements from a professional perspective. The cultivation process is an important reflection of all professional ethics [4-5]. Therefore, the spirit of craftsmanship is a consideration of the development of national comprehensive talents, as well as a consideration of the development of national professional talents.

The research in this paper is conducive to further improving the theoretical system of ideological and political education in universities. The ideological and political education work in colleges and universities bears the important task of cultivating the ideological quality of college students and assisting college students to establish a correct world outlook. Reform and opening up have taken off in the economic realm, and at the same time they have subtly influenced people's values[6]. The human nature in this world is more profitable, impetuous, and indifferent. Cultivating the craftsman spirit will not only help college students to form correct values and to deeply understand and practice the socialist theoretical system with Chinese characteristics. Knowledge, correct behavior style and rigorous style of work can achieve the purpose of cultivating college students' healthy character and noble personality [7-8]. At the same time, the cultivation of artisan spirit also meets the needs of colleges and universities to cultivate new talents, and provides theoretical support for colleges and universities to carry out spiritual and cultural education.

2. Method

2.1. Artificial Intelligence

The history of artificial intelligence is conducive to the longitudinal understanding of artificial intelligence, but from this we can also see that the development of artificial intelligence presents interdisciplinary and multi-disciplinary characteristics. Understanding the connotation of artificial intelligence will help us better understand the nature of artificial intelligence. Artificial intelligence is closely related to cognitive science. In a sense, cognitive science is also an interdisciplinary discipline. Strictly speaking, artificial intelligence and cognitive science are intersected. One of the obvious intersections is computational cognition. science. Artificial intelligence was once used to simulate human brain or human intelligence. Of course, we no longer require machines to simulate human intelligence as strictly as before [9-10].

To some extent, artificial intelligence is regarded as a simulation of human thinking. Because of this, we need to understand how humans make decisions, which may provide some inspiration for the development of artificial intelligence in the future. Many things in cognitive science research are closely related to psychology (experiments), and they often subvert many of our common sense ideas. Taking memory as an example, our common sense believes that memory is like a container that stores our past experiences. Some are left out of the container to cause forgetting, while others are left for us to retrieve at any time.

2.2. Artisan Spirit

(1) Spiritual meaning of college craftsmen

Based on the previous explanation of the meaning and content of the craftsman spirit, craftsman spirit is a personal quality and spiritual pursuit that citizens of all levels of society need to abide by in work and life. However, the main research object of this article is "university students". "University students" mainly refer to "graduates (masters and doctors), undergraduates, junior college students" and "90s" as the main body of college students. Therefore, the core connotation of college students' craftsmanship spirit is that college students establish the correct values, adhere to the spirit of excellence and perfection, pursue the spirit of creative excellence, unswervingly firm character and a serious and responsible professional attitude, which will lead the craftsmanship to be led by academics. A kind of personal quality manifested in the process of the practical activities [11-12].

(2) Spiritual content of college craftsmen
1) Rigorous and serious

Rigorousness is a practice attitude. Learning is the bounden duty of students. College students are required to focus on their studies, earnestly study professional knowledge, overcome difficulties in learning with a positive and healthy attitude, and be an outstanding college student. In learning, develop an attitude of perseverance and always do a lot of learning. Only at work can you fulfill your duties, form the correct workplace values, and pave the way for society to enter the future. At the same time, college students must be "moderate" in their words and deeds. The so-called "know what you know, what you don't know", and that's it. In the professional field, we should talk about professionalism; in the behavior, we must follow the corresponding standards; in the speech and behavior, we must show modesty. This is the professional ethics that college students should have, as well as the professional ethics required to enter the society in the future.

2) Dedicated and dedicated, dedicated

Dedicated work requires that people not only master the skills of the profession they are engaged in and complete their work professionally, but also that they always maintain the quality of excellence in their work and have a correct understanding of the value of their profession. The value of dedication is the essence of love and dedication, and the prerequisite for good work, while focus and persistence is a work attitude, and a serious work attitude is half the success. At the same time, the sense of responsibility is a compulsory course that college students need to study. Responsibility is not only an indispensable professional ethics at work, but also a moral code as a social person. Personally, the sense of responsibility is the inherent motivation to learn the craftsman spirit, and it will have an motivating effect to make the work perfect; from the perspective of society, the sense of responsibility requires college students to correct their attitudes, establish a sense of autonomy, and actively assume responsibility and fulfill obligations. Stir up the girders. To cultivate the artisan spirit of college students, first of all, we must establish professional values and cultivate a sense of responsibility of "doing more and more." Secondly, we must meet high standards in learning, clarify the role played by our major in society, and carry out career planning at an early stage. Focusing on your own business can meet the needs of social development.

3. Experiment

3.1. Research Objectives

Vocational colleges shoulder the heavy responsibility of cultivating application-oriented talents. They must strengthen the cultivation of student craftsmanship. Such a spirit is difficult to achieve in a short period of time. This requires the instillation of long-term imperceptible values for students. In the long-term skills education, students develop good behavior habits and work attitudes. In the current tide of China's economic constitution reform, the author attempts to analyze the ways to cultivate craftsmanship in vocational schools from the perspective of artificial intelligence, and propose strategies to cultivate craftsmanship. In addition, sort out the relationship between artificial intelligence and the cultivation of artisan spirit, and trace the source of the current artisan spirit loss to find out the crux of the problem; analyze and improve the connotation of the current variety of artisan spirit, put forward the author's understanding of the connotation of "craftsman spirit".

3.2. Experimental Methods

Through literature search and website search, consult the relevant literature of the Vocational Education Group, learn about domestic and foreign research on Chinese manufacturing and craftsmanship, understand the relationship between craftsmanship and professional teaching, the relationship between craftsmanship and professionalism, ancient Chinese and foreign On the basis of apprenticeship and German and Japanese experience in cultivating craftsman spirit, through data research, analysis and discovery of the current status and development of China's manufacturing industry, explore the strategy of craftsman spirit cultivation in this context.

Conduct field surveys of vocational schools, make questionnaires to find out the current bottleneck in the cultivation of craftsmanship in vocational schools, and conduct in-depth interviews with field visits to vocational schools with higher levels of technical refinement and students with higher
4. Discuss

4.1. Analysis of the Reasons for the Problems in the Cultivation of College Students' Artisan Spirit

(1) Analysis of the reasons for the problems in the cultivation of college students' craftsmanship

Since the establishment of the feudal dictatorship in the Qin Dynasty, China's political and economic system has restricted the cultivation of craftsman spirit. It must recognize that our feudal society has achieved leapfrog development. However, under the social background of "emphasizing agriculture and restraining business", a thin thread was also severely cut off by the development of the times. After the founding of the People's Republic of China, based on the basic national conditions, China's long-term implementation of the planned economic system, "big pot rice", "iron rice bowl" and other thoughts have consumed people's ideological will, reduced people's enthusiasm for work, reduced work efficiency, and formed egalitarian dependence psychological. Until the reform and opening-up policy was established, China implemented a socialist market economic system with Chinese characteristics, continuously carried out "transformation, structural adjustment, and boosting power", and built a modern economic system on the basis of upholding new development concepts, making people think The methods and values have undergone tremendous changes, and the social consciousness of improving quality and efficiency has been increasingly tolerated and respected by society and people. The current state of China's political and economic system reform lags behind the construction of social spiritual civilization, which not only hinders the development of social politics and economy, but also hinders the development of craftsmanship and its cultivation. The cultivation of craftsmanship is a complex and procedural task. The support and encouragement of colleges and universities is not enough. The government needs to release institutional dividends and provide a reliable guarantee for the cultivation of craftsmanship. Only by continuously deepening the reform of the political system can the craftsmanship be promoted. development of.

(2) Limited educational resources and uneven distribution in colleges hinder the cultivation of artisan spirit

Cultivating the spirit of craftsmanship is a long and complex systemic work. Through the development of ideological and political education and cultural heritage education, it takes a long process to cultivate the spirit of craftsmen. In the process of carrying out quality education, many disciplines such as psychology, education, society, and management are involved, and comprehensive theoretical knowledge is also required. Further development of research on the cultivation of artisan spirit requires both experts and scholars in various fields and disciplines to discuss and study, as well as the need for universities and colleges to actively carry out the practice of cultivation of artisan spirit, as well as national social policies, funds and material support. In contrast, the spirit of craftsmanship has only received widespread attention since it was first proposed in 2016. At present, the manpower, material resources, and financial resources required for the cultivation of craftsmanship spirit are not in place, and it is difficult to extract the spirit of craftsmanship from the single thinking of vocational schools. Leaving out to cultivate the discipline and universal spirit, and further carry out the work of propaganda and cultivation of craftsman spirit. As shown in Table 1 and Figure 1, although many colleges and universities in China attach great importance to the effectiveness of craftsmanship, actively carry out practical and theoretical research, exercise students' innovative consciousness, ingenuity, and craftsmanship, face work and life with craftsmanship, and become a true "Social people", but at present, some key universities in China have been wasting resources, severely leaning on high-quality resources, and lacking resources in ordinary universities. The limited and uneven distribution of educational resources is difficult to meet the needs of the cultivation of artisan spirit.
Table 1. Second-order factor analysis results of college student craftsmen's psychology

| Factor                        | Element | Commonness |
|-------------------------------|---------|------------|
| The craftsman skills         | 0.755   | 0.572      |
| The craftsman toughness      | 0.825   | 0.685      |
| The craftsman bear           | 0.767   | 0.587      |
| The craftsman innovation     | 0.845   | 0.723      |
| The craftsman immersed       | 0.788   | 0.621      |
| The eigenvalue               | 3.184   | 63.667%    |

Figure 1. Second-order factor analysis results of college student craftsmen's psychology

4.2. Strategies to Strengthen the Cultivation of College Students' Craftsmanship

1) Establish training objectives

The cultivation of college students' craftsmanship means that through education and cultivation, colleges and universities help college students to enlighten professional concepts, stimulate work enthusiasm, establish professionalism, cultivate professional qualities, and then guide college students to improve employability and work strength, and complete the "campus people-social people" transformation. The process of continuously creating social value. The purpose of higher education is to cultivate diverse and comprehensive talents with comprehensive development of moral, intellectual, and physical beauty. This requires colleges to use knowledge, practice, and environmental rendering in teaching practice to cleverly guide students to participate in practical exercises and focus on training students. Perseverance, perseverance and firm belief in the pursuit of excellence, as well as a creative spirit of ingenuity, innovation and change, and a down-to-earth, hard-working spirit. Through the knowledge armed and practical training of college education, it cultivates innovative, management, practical and technical talent resources for the future development of the country.

2) Improve the cultivation system

At present, there are no specific courses related to the spirit of craftsmanship, professionalism, and...
professionalism in the curriculum setting of colleges and universities. Therefore, colleges and universities need to optimize the university curriculum system, improve the knowledge structure of college students, and increase the relevance of teaching activities. The first is to add professional and vocational education concepts to the public courses of ideological and political education in universities, to guide college students to learn professional knowledge of socialism with Chinese characteristics, and at the same time, to popularize professional education and cultivate professional awareness in formal courses; Reasonable teaching. Among the many majors in universities, some majors focus on theoretical research, and there are few practical courses, while some majors tend to be practical, and there are fewer theoretical courses. This requires adjusting the ratio of theoretical courses to practical courses in teaching, so that all students can learn in general. In education, accept the education of professionalism and professionalism, optimize the knowledge structure of students, and expand student thinking. The third is to optimize the career course. It is necessary to abandon the traditional dictation and indoctrination method, add the latest employment information related to student majors, popularize the current employment platform, and corporate unit recruitment requirements, improve the correlation between courses and practice, and guide the awareness of employment urgency. And its own shortcomings, to strengthen the effect of teaching classroom practice.

5. Conclusion
With the development of social reforms, the "merchant spirit" is rampant, and the negative impact of business thinking of speculative earning and research for the benefit of college students has become increasingly obvious. Improving the cultivation of college students' craftsmanship has become an important task in the education community. In addition, the "craftsmanship spirit" has appeared in government work reports for two consecutive years. It can be seen that its importance is extraordinary. In the era of Industry 4.0, not only China's manufacturing industry needs craftsmanship research spirit, but also various industries need craftsmanship spirit. Craftsmanship has become an important condition for China to move from a big country to a strong country. China should transform the spirit of craftsmen from theory to practice, and gradually form a pattern of combining academic research and practical application into one, and free transfer of theoretical knowledge and operating experience.

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