



# Faith is Like a Rock, Teaching is Based on Things, and Virtue is Reflected in It---Empowering AI: Promoting the Potential and Win-Win of Path Exploration and Practice Framework ---A Case Study of School of Information Engineering, Xi'an Eurasia University

Education is Like a Tree Shaking Another Tree, a Cloud Pushing Another Cloud, and a Soul Awakening Another Soul. ---Inscription

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**Abstract.** As the rapid advancement of information technology, AI has become a crucial support in various fields. As for education, the application of AI is becoming increasingly widespread, especially in enhancing and evaluating the comprehensive quality of students. This study will delve into how AI is being utilized to enhance and assess the overall academic performance of students, with its significance growing more apparent analyze its advantages and challenges, and propose corresponding countermeasures and suggestions.

The construction of study style is an important guarantee for the quality of talent cultivation in Colleges and universities. The traditional management mode relies on ex post intervention and empirical judgment, which is difficult to deal with the new challenges of the complexity of student groups and the massive amount of behavior data. The rise of machine learning technology provides a new possibility for the construction of study style from “passive response” to “active early warning”, and from “experience driven” to “data driven”. Taking the school of information engineering of Xi'an Eurasia University as the background, this paper discusses the application path of machine learning in the construction of study style: build an academic early warning model to identify risk students, realize the accurate portrait of students' behavior through cluster analysis, promote teaching according to their aptitude with the help of personalized learning support system, and optimize teaching strategies based on data feedback. At the same time, this paper analyzes the ethical challenges in the application of technology, including privacy protection, algorithm fairness and interoperability. The research believes that machine learning can effectively improve the scientifically and accuracy of learning style management, but it needs to take education ethics as the bottom line to realize the deep integration of technology and education.

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**Keywords:** AI; Comprehensive quality; Personal development;

## 1 Introduction

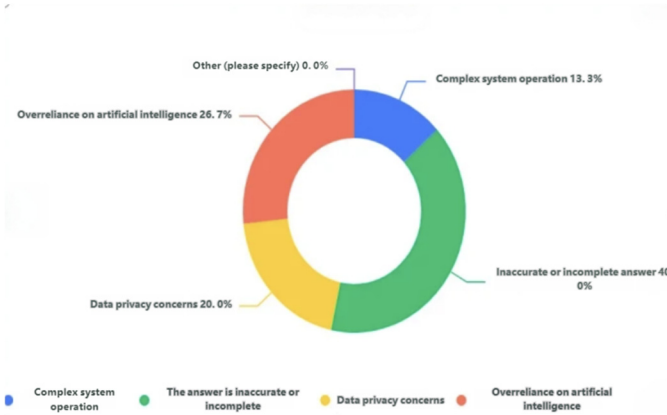
The style of study is the concentrated embodiment of the university spirit and an important indicator to measure the quality of talent cultivation in Colleges and universities. “Chinese education modernization 2035” clearly proposes to use modern technology to accelerate the reform of talent training mode and promote the transformation of education informational to intelligence. With the deepening of campus information construction, colleges and universities have accumulated a large amount of student behavior data, including classroom attendance, homework submission, library borrowing, online learning records, all-in-one card consumption, etc. These data contain rich information such as students’ learning engagement, learning habits, social status and so on, and provide a data basis for the construction of scientific and chemical wind.

Paradoxically, at present, the study style management in most colleges and universities is still based on ex post intervention and empirical judgment.

Since April 2024, Chinese National Bureau of education has issued the “second stage of educational information technology reform plan”, marking the beginning of the transformation and upgrading period of new digital education based on a large number of data. According to the current demand analysis results, the large-scale data application has an important force to promote the future higher education teaching, and has a certain positive effect on the overall ability training of students.

Considering various factors, As show in figure.1, students concerns on AI applications in education shows that the core ability of AI is to find relevance, that is, to find important connections from the complex and interlaced information network. No matter in the adjustment of the large system and system, or in the change of the small education and teaching methods, we can find the key points of the problem through accurate data research, so as to achieve the purpose of effective strategy for the treatment of the etiology.

With the popularization and application of artificial intelligence, it is gradually becoming an important means to promote the modernization of school governance. The traditional education management mode often has the problems of confusion and low efficiency, which is caused by the lack of scientific and technological support and the use of modernization. By using the artificial intelligence system, we can effectively process and update the data of personnel information, financial budget, teaching facilities and other aspects in the campus. At the same time, we can also deeply integrate, analyze and predict them, so as to serve as a powerful basis for the refined management of the school and improve its overall education quality and economic benefits.



**Fig. 1.** Students' Concerns on AI Applications in Education

High quality education is the foundation of education. With the help of artificial intelligence technology, we have the ability to record the whole process of education and teaching in an all-round, real and dynamic way<sup>[8][13]</sup>. Through the analysis and application of data, we can effectively change the traditional education and teaching mode, making precise teaching a reality<sup>[1][4]</sup>. Simultaneously, it also helps teachers to better grasp the situation of students and optimize teaching methods, and transition from “methodology based on personal experience” to “education concept based on data analysis”<sup>[2][10]</sup>.

General Secretary Xi Jinping stressed that at present, science and technology in the world are developing rapidly. Universities should focus on the cutting-edge fields of global science and technology, and strengthen the research and innovation of key generic technologies<sup>[13][14]</sup>, cutting-edge leading technologies, modern engineering technologies and disruptive technologies.

We need to vigorously build interdisciplinary groups and establish a strong scientific and technological team to enhance the collaborative innovation ability in various fields; At the same time, we should also increase funding for original, systematic and guiding research. We should strive to cultivate a group of globally competitive scientific and technological innovators, scientific and technological leaders, young researchers and high-level innovation groups, and strive to make important progress in cutting-edge basic theoretical research and innovative new discoveries.

## 2 An Overview of College Students' Comprehensive Quality

The comprehensive quality of college students in the main meaning refers to the basic quality and overall quality that can support them to complete various roles and tasks under the specific educational background<sup>[2][3]</sup>.

For students, the core quality is their thinking concept and moral quality<sup>[2]</sup>. Higher education institutions need to clarify the types of talents they want to cultivate<sup>[1]</sup>, which is the key to the problem, the original intention of education, and the foundation for the

establishment of the University. Students' Ideological and political level not only affects their personal development, but also has a far-reaching impact on our country.

The overall quality of college students depends on their physical and mental health<sup>[3]</sup>. The healthy posture and the improvement of human nature have laid the foundation for their successful graduation and entry into work, which is also one of the important objectives of higher education institutions to cultivate excellent talents. The mastery of scientific culture is the key factor to improve the overall quality of students<sup>[1]</sup>. Deep understanding of disciplines and broad scientific cognition can become an important driving force for future development<sup>[9][12]</sup>.

The comprehensive quality of college students has been specifically demonstrated in their practical ability<sup>[3]</sup>. As show in figure.2, the proportion of four dimensions of college Students' comprehensive quality tells us that we are committed to cultivating their craftsman spirit and innovation ability, so that they can better apply what they have learned to real life, contribute to society and contribute their talents and strength to the country.

Proportion diagram of the four dimensions of comprehensive quality of college students

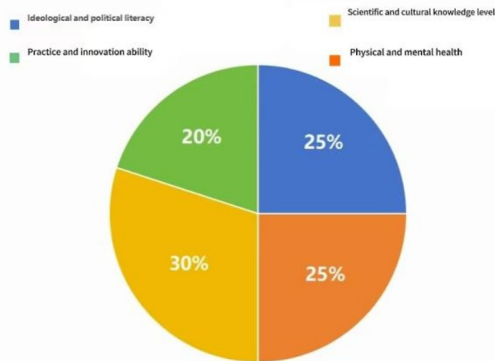
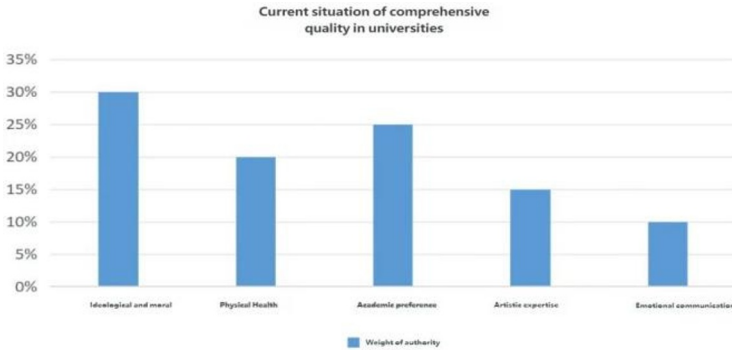


Fig. 2. Proportion of Four Dimensions of College Students' Comprehensive Quality

### 3 Discussion on the Current Situation of the Comprehensive Quality of Contemporary College Students in the New Era

For some college students, their ideological and political literacy needs to be improved<sup>[1][3]</sup>. The lack of team spirit, the lack of collectivism and other problems are obvious. Some students' performance in dealing with interpersonal relationships is not good, and they are easy to go to extremes.

Some students were deeply influenced by western culture, and their political views were not stable enough<sup>[3]</sup>. In addition, some foreign anti china forces also sneaked into university groups in different forms to promote illegal religious beliefs and spread Anti China ideas. They tried to discredit the achievements of China's reform and opening up and attacked the socialist system, which had a great negative effect on the healthy development of students.



**Fig. 3.** Current Status of College Students' Comprehensive Quality (By Weight)

The management of students in some universities is too loose, and the head teachers and counselors are not concerned about the students' learning status and attitude, which makes some students' academic performance unsatisfactory<sup>[2]</sup>.

As show in figure.3, current status of college Students' comprehensive quality indicates that many college students unconsciously pursue material enjoyment too much, while ignoring the exploration of scientific and cultural knowledge and the desire for knowledge. In recent years, college students' sports test results show that their physical and mental health is worrying<sup>[9][10]</sup>.

In addition, due to the lack of top-level planning and overall management in some colleges and universities in terms of mental health, the lack of timely intervention for students with psychological problems, and the lack of frustration education in the process of university education, many college students choose to suspend school every year because of psychological problems<sup>[2]</sup>.

It is necessary to improve college students' practical ability and awareness of entrepreneurship and innovation, because their quality in this area is obviously insufficient<sup>[1][3]</sup>. The long-term examination oriented education has led to the lack of cognition of college students to improve their practical ability<sup>[14][15]</sup>.

Although the number of practical operation and internship courses in universities is not large, with the growing demand for such courses, the practical problem they face is that their practice training facilities can not keep up with the changing needs of students, which limits their learning space in practice<sup>[3][10][13]</sup>. In addition, on the education of innovation and entrepreneurship, many schools have the phenomenon of cross sect-oral management, which often leads to delays, shirking responsibility and other behaviors, which has a negative impact on the quality of innovation and entrepreneurship education<sup>[2]</sup>.

#### **4 The Significance of Optimizing College Students' Comprehensive Quality Evaluation**

Enhance the progress of quality education, enhance the comprehensive quality of college students, enable them to have professional career development potential, and cultivate a group of senior talents suitable for national and social progress<sup>[1][2]</sup>.

At present, the comprehensive quality evaluation system of college students in various universities mainly focuses on the in-depth research and analysis of the evaluation theory of College Students' comprehensive quality, or the targeted analysis according to the actual situation of students<sup>[3][4]</sup>.

Optimizing the comprehensive evaluation system, making students pay more attention to the cultivation of quality and ability, and promoting the all-round development of quality education, which will provide guidance and support for the cultivation of innovative talents<sup>[1][4]</sup>. In the process of overall optimization, colleges and universities need to enhance the feasibility of comprehensive design and implementation<sup>[2]</sup>.

#### **5 The Role of Artificial Intelligence in Students' Comprehensive Quality**

At the glance of artificial intelligence technology, its role in education is becoming more and more important<sup>[8][12]</sup>. Especially in the improvement of students' comprehensive quality, AI shows great potential<sup>[1][4]</sup>.

We can tailor our own learning programs and educational content for each student<sup>[9][10]</sup>. By mastering students' learning habits, interests and difficulties, teachers can teach students pertinently<sup>[8][12]</sup>, so as to improve students' learning effect<sup>[13][14]</sup>.

Diagnostic teaching evaluation is also one of the important functions of AI<sup>[13][15]</sup>. AI technology can realize the real-time tracking and problem identification of students' learning process, and help teachers find the learning difficulties faced by students as soon as possible<sup>[4][8]</sup>. With the help of accurate diagnosis results, teachers can implement more targeted individualized counseling to help students break through learning barriers and improve the overall learning effect<sup>[1][10]</sup>.

In terms of comprehensive quality evaluation, artificial intelligence has realized the diversification and internationalization of evaluation mode<sup>[1][4]</sup>. Compared with the traditional single evaluation method that only focuses on achievement, AI technology can cover multiple dimensions such as students' thinking ability, innovation consciousness and cooperation spirit, so as to build a more comprehensive comprehensive evaluation system<sup>[2][3]</sup>. This multi angle evaluation method is helpful for educators to have a deeper understanding of students' personality characteristics and development potential<sup>[8][13]</sup>.

Simultaneously, the introduction of artificial intelligence makes the evaluation process more scientific and fair<sup>[15]</sup>. By analyzing the data performance of students in the learning process, the interference of human factors on the evaluation results can be reduced to a great extent, and the objectivity and credibility of the evaluation can be improved<sup>[4][8]</sup>.

As show in figure.4, according to the proportion of four dimensions of college students' comprehensive quality analysis, teachers can obtain real-time feedback information to help students find problems and adjust learning strategies in time, so as to achieve better learning results<sup>[10][14]</sup>.

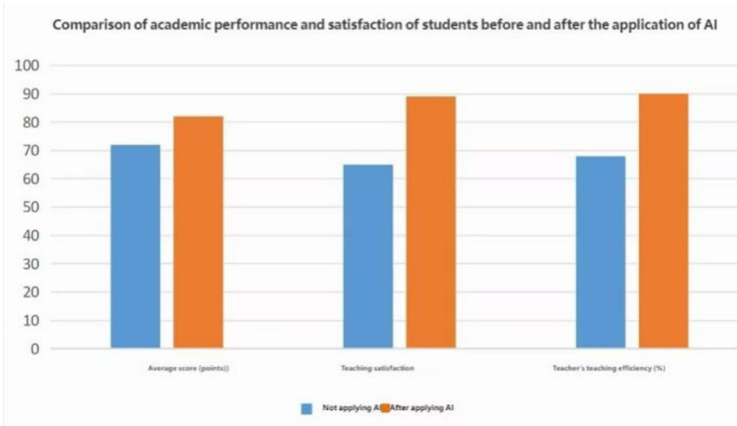


Fig. 4. Proportion of Four Dimensions of College Students' Comprehensive Quality

## 6 The Role of Artificial Intelligence in Students' Comprehensive Quality

The students' comprehensive quality evaluation system based on artificial intelligence is to display the students' growth process and outline their development path through objective artificial intelligence information<sup>[1][4]</sup>. Use the evaluation criteria to guide and feedback information, guide students' self cognition and self-education, determine their development route, and promote each student to achieve comprehensive, harmonious and sustainable development on the existing basis<sup>[2][3]</sup>. The construction of the system can be divided into four stages.

To evaluate the overall quality of students, we should comprehensively investigate their growth from multiple dimensions, such as ideological and moral, intellectual development, physical health and aesthetic quality<sup>[3][4]</sup>. We should not only pay attention to students' knowledge level in science and culture, but also pay attention to the realization of their basic development goals<sup>[1][2]</sup>.

Combined with the theory of education evaluation, through further data clustering and dimensional correlation analysis, AI technology can also identify the most representative and influential specific activities under each class of primary indicators, and then refine them into quantifiable secondary indicators<sup>[2][8]</sup>. Taking physical health as an example, its evaluation dimension can be refined into students' living habits, exercise frequency, sports skills and psychological adjustment, forming a systematic and scientific evaluation basis<sup>[3][4]</sup>.

Thereby, when constructing the generative evaluation model of students' comprehensive quality, we can combine the existing educational research results with the help of polynomial regression analysis and hierarchical analysis in artificial intelligence to form a mathematical model of the weight of evaluation factors, and determine the most representative evaluation function through repeated verification and optimization of actual data<sup>[8][13]</sup>.

When constructing the generative comprehensive evaluation model, we should also integrate quantitative and qualitative analysis to make the evaluation conclusion more comprehensive and reference value<sup>[4][8]</sup>. The evaluation results can be expressed in scores, grades, comments and other ways to form a complementary mechanism and more accurately reflect the development of students' literacy<sup>[2][13]</sup>

In terms of data collection of education infrastructure, it is necessary to integrate the province's education data resources, including education system data at all levels, education platform interface data, 5g equipment and management data, to ensure that multi-source data can be uniformly accessed and managed in the data warehouse of education AI<sup>[9][14]</sup>.

In the aspect of AI governance in education, we should build an AI platform in education to realize the functions of standardized processing, data cleaning, integration, quality monitoring, visual management and analysis of total data, so as to support the needs of students' quality evaluation<sup>[8][13]</sup>. At the same time, ensure the interconnection between different data sources to meet the needs of clustering and association analysis of heterogeneous data<sup>[14][15]</sup>.

After the completion of the system, the evaluation model and indicators should be continuously optimized according to the changes of national policies and educational practice, and according to the development of information technology, combined with the construction of 5g smart campus, new data sources should be introduced into the system<sup>[9][12]</sup>. With the promotion of the educational AI platform and the block chain technology, the transparency and impartiality of the evaluation process are ensured and made tamper proof<sup>[14][15]</sup>.

## **7 Challenges and Countermeasures of Artificial Intelligence in Improving and Evaluating Students' Comprehensive Quality**

Although AI plays a key role in improving and evaluating students' quality, it still faces some challenges<sup>[5][7][15]</sup>. The following are the challenges and corresponding countermeasures.

**Data quality:** the accuracy and integrity of the data may be affected, because the collected data may be affected by the misrepresentation or bias of students, teachers or other interested parties<sup>[8][13]</sup>. **Privacy protection:** the collection and use of students' personal information involves privacy issues. We must strictly abide by the laws and regulations on privacy protection to ensure data security and privacy protection<sup>[5][6][7][15]</sup>.

**Data analysis ability:** effective analysis of AI requires corresponding technical and professional knowledge, but educational institutions and teachers may lack the ability and resources in this regard<sup>[9][11][12]</sup>.

Data application: even if a large amount of data is collected, how to apply the data to the actual teaching and evaluation is also a challenge, and effective strategies and methods need to be developed<sup>[10][14]</sup>.

Through the implementation of the above countermeasures, we can better deal with the challenges of artificial intelligence in the improvement and evaluation of students' comprehensive quality, and promote the sustainable development and progress of education<sup>[8][12][15]</sup>.

## 8 Conclusion

Artificial intelligence plays an important role in improving and evaluating students' comprehensive quality<sup>[1][4][8]</sup>. It has the ability of personalized education, improving teaching resources, and conducting multi angle evaluation<sup>[9][10][13]</sup>. However, when applying artificial intelligence to evaluate students, we also need to fully consider data privacy, ensure the accuracy and rationality of data analysis and other factors, so as to ensure the scientificity and fairness of the evaluation results<sup>[5][7][15]</sup>.

Simultaneously, we also need to pay attention to the fact that data evaluation can not completely replace people's subjective judgment, and we still need to conduct a comprehensive evaluation combined with teachers' professional opinions and parents' feedback, so that we can jointly promote the improvement and progress of students' overall quality<sup>[2][3]</sup>. In the society of rapid development of artificial intelligence, we must pay attention to improving the overall quality of college students. At the same time, we also need to strengthen the construction of Ideological and moral, and in-depth study and understanding of the basic principles and views of Ideological and moral construction, in order to better grasp its spiritual connotation<sup>[1][3]</sup>.

In short, machine learning has brought unprecedented opportunities for the construction of study style, but opportunities and challenges coexist<sup>[1][4]</sup>. Only by adhering to the original intention of education and focusing on the development of students, can technology truly serve the fundamental task of Building Morality and cultivating individuals<sup>[2][8]</sup>.

Sushi once said, "people who achieved great things in ancient times not only have the ability to surpass the times, but also have firm perseverance and the spirit of never giving up." and Wang Shouren said, "if a person does not have a clear goal and determination, he cannot achieve anything in this world." "Youth have faith, the country has strength, and the nation has hope." They will continue to focus on cultivating morality, aviation spirit, craftsmanship spirit, and national defense spirit, adhere to the "three complete education" and teach students in accordance with their aptitude, and continue to improve and evaluate the comprehensive quality of college students in the era of rapid development of artificial intelligence<sup>[1][4][8]</sup>. I hope this article can guide college students to establish a correct "Three Outlooks" and aspire to improve their comprehensive ability in the Z era, and strive to be a new generation worthy of the great task of national rejuvenation<sup>[2][3]</sup>.

Leaning on the long sword and dancing in autumn, young people's feelings are like flat earth. ---Postscript

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