

# Innovation and Construction Path of Intelligent Teaching of College Chinese in the Era of Artificial Intelligence

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**Abstract:** Literature can enhance people's cultural accomplishment from a higher level, enrich people's inner world, and glow people's spiritual outlook, therefore, college Chinese is one of the ways to realize the new era of socialism with Chinese characteristics, and is a strong guarantee to train socialist builders and successors. However, the traditional teaching methods are increasingly unable to meet the educational needs of college Chinese courses in the new era. Therefore, it is necessary to use artificial intelligence and other technologies to make the teaching objects and teaching process of college Chinese courses perceived and connected, that is, to complete the effective output of knowledge through artificial intelligence, and establish a teaching network system that has the sense of being immersive and ready to learn, so as to effectively realize intelligent teaching. College Chinese courses should take the initiative to meet the changes of The Times, and explore the construction path of college Chinese intelligent teaching from the aspects of transforming teaching ideas, reforming teaching design, innovating teaching activities, and constructing diversified teaching evaluation.

**Keywords:** Artificial Intelligence; College Chinese; Intelligent Teaching; Construction Path.

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## 1. Introduction

A nation and a nation cannot have a soul. Therefore, the course of college literature carries the important mission of cultivating people with culture, educating people with culture, and nurturing the essence of culture. This is because, at the time when young students just become adults and their thoughts begin to mature, college literature classes can learn about the connotation of culture through various excellent articles and enable students to truly understand the unique charm of Chinese culture through words. They can seek the true meaning of life in words and enjoy true, good, and beauty. The arrival of the era of artificial intelligence has provided a new way of thinking for the reconstruction of college literature teaching process. That is, what can be passed on through artificial intelligence is not only culture, but also can enhance students' sense of participation in Chinese language teaching, allowing students to improve their experience of Chinese language teaching. Through artificial intelligence, classroom teaching is no longer a one-sided teaching in which teachers only convey knowledge to students, but a two-way teaching in which students can truly participate. This is a change from traditional teaching methods and a new teaching method based on the needs of the times.[1] Artificial intelligence technology can help college literature better showcase its charm in enhancing the charm of Chinese language classrooms and making Chinese language classrooms more attractive to students, so that students can actively and proactively participate in classroom learning.

## 2. The Practical Demand of Realizing Intelligent Teaching in College Chinese

With the development of China's society, science and technology has been further developed, the role played in People's Daily life is very comprehensive, can have a very

important impact on people's production and life as well as learning, so the use of science and technology in the classroom has become a very necessary option, the use of science and technology can also make a new possibility in the classroom.[2] College Chinese classroom has higher freedom, so it also puts forward higher requirements for students' independent learning ability. New changes have taken place in the teaching methods, teaching discourse and teaching coordination of college Chinese courses. This is mainly reflected in: First, due to the diversification of information acquisition methods, the authority of college Chinese teachers in teaching has gradually weakened, and the balance of roles and status between teachers and students has begun to change, which makes the teaching methods of college Chinese need to undergo profound changes, that is, the single teaching method of "one word" by teachers is bound to withdraw from the teaching stage. Instead, the new teaching situation of "student-centered, teacher-student collaborative exploration". Second, as students' knowledge acquisition has shifted from traditional offline classroom to online Internet media, young students are exposed to a series of non-mainstream ideas on the basis of understanding mainstream ideas. Therefore, college Chinese classroom teaching discourse should have clear guidance and guidance, and strive to use unified guiding ideology to lead the diversity of ideological culture, so as to weaken the impact of community subculture on the mainstream consciousness, so that the mass discourse will not be over-respected, and thus ensure the authority of the elite discourse. Third, in traditional teaching, the lack of information sharing channels between classroom and classroom, classroom and school, and school and school directly leads to the emergence of information fault. When such poor information occurs, it often makes students unable to get information quickly, and it is difficult for schools to exchange information, thus making school education more closed.[3] In order to solve this situation, we can choose to improve on the basis of science and technology. The teaching

of college Chinese courses needs to make full use of the power of modern science and technology such as artificial intelligence represented by machine learning and knowledge graph, so as to eventually establish a comprehensive and integrated ubiquitous learning paradigm.

To sum up, we can see that with the progress and development of science and technology, corresponding changes can be made in the process of education, that is, to change the educational concept of college Chinese teachers, innovate the educational model, enrich the teaching means, and then develop in the direction of customization.

### 3. The Existing Elements of College Chinese Education under Artificial Intelligence

#### 3.1. Linking Artificial Intelligence and Education to Further Improve the Level of Education

Intelligent teaching is the integration of the Internet of Things and big data in Western countries, and the connection

of these new means with teaching, so that science and technology can be invested in the development of teaching, which is essentially to promote education to progress with the progress of science and technology. Digitalization and individuation are the core features of intelligent teaching. Specifically, intelligent teaching is to help complete the effective output of knowledge through artificial intelligence, and at the same time, accurately and instantaneously feedback the reality of closed-loop learning and holographic scene teaching. So, what is "closed-loop learning" and "holographic scene teaching"? The so-called "closed-loop learning" is a cyclic learning process in which one repeatedly conducts focused exercises, then analyzes one's shortcomings through feedback, and finally solves the problem through correction (as shown in Figure 1). The "holographic scene teaching" refers to the use of AR, VR and other holographic technology to create a new form of teaching equipment, so as to bring immersive teaching experience, and this experience brings students not only the imparting of knowledge, but also the feeling of knowledge, so that students can feel the unique charm of knowledge.

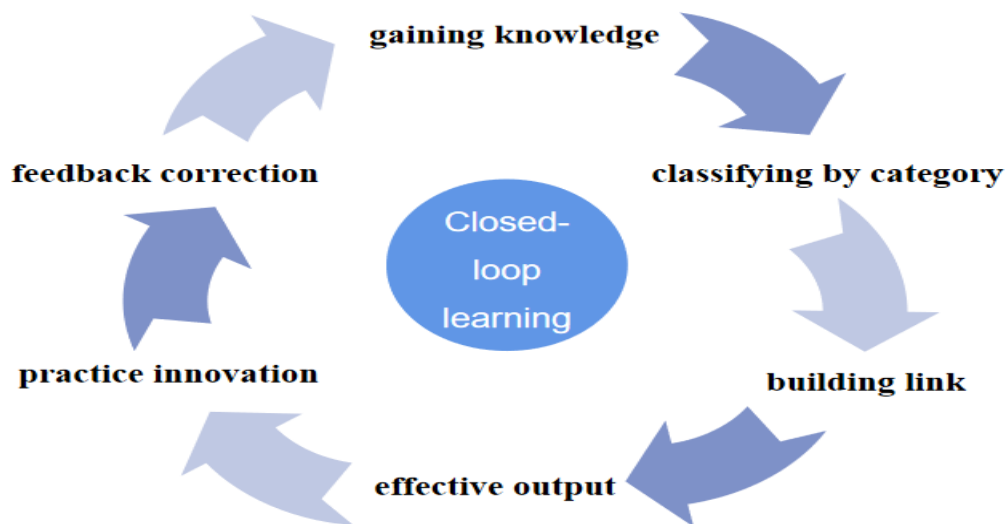


Fig 1. Closed-loop learning process

By analyzing the relationship between artificial intelligence and teaching, we can summarize their relationship into two cases. One case is to use artificial intelligence as a supplement to classroom teaching, which takes man-machine collaboration as the main form, that is, to use artificial intelligence technology to carry out multiple learning in the classroom. The other is the all-round teaching system. If the teacher applies this teaching system to the actual classroom teaching, it will not only bring the students the transmission of knowledge, but also make the students feel the charm of knowledge, so that they can understand the information conveyed by knowledge and connect knowledge with practice. This will help improve students' ability to apply what they have learned.

#### 3.2. The Inner Logic of Intelligent Teaching of College Chinese: To Establish a Teaching Network System That is Immersive and Ready to Learn

The teaching of college Chinese is not suitable to continue to use the traditional cramming mode of education, because the students are young students, as college students, their

ideas have begun to mature, and they have a certain sense of things, so if the college Chinese teachers use irrigation educational means to carry out "full hall irrigation" type of education, then, This traditional teaching method often cannot mobilize the enthusiasm of students, so that students always maintain a passive learning attitude in learning. Therefore, college Chinese should be more inclined to lead students to feel the beauty of literature and understand the charm of language. It can be seen that college Chinese is a kind of perceptive education at the cognitive level, and it should pay attention to the role of enlightening thoughts, edifying sentiments and warming hearts through literary works and language symbols. This requires teachers to not simplify the process of college Chinese education when building the intelligent college Chinese teaching system, but to give it a universal educational expression, so that students can have a sense of immersion, and then enable students to gradually establish a dynamic knowledge system in the immersive experience.

Intelligent college Chinese teaching is mainly divided into two kinds: recessive scene teaching and explicit scene teaching. The former affects the formation of comprehensive

literacy and value concepts by embedding metaphorical discourse symbols, [4] while the latter can improve the cultural accomplishment and enrich the spiritual world of young students by opening up the first classroom (traditional offline classroom teaching), the second classroom (various campus cultural activities and social practice activities) and the third classroom (network education platform) of college Chinese. And the shaping of noble human spirit and personality. This makes the two links of "knowing" and "doing" naturally integrate, and then promote the practical realization of the potential infiltration effect of education. Under the intelligent teaching system, schools, families, society, students and other learning subjects form a joint force, and work together in the teaching process of college Chinese courses, so the final can be formed at any time to learn the full range of teaching network.

The advantage of intelligent learning is that it can elevate knowledge learning to ontology construction, thereby shaping and strengthening learners' cognitive logic, thereby reducing cognitive load, stimulating learners' learning enthusiasm and initiative, and finally achieving the purpose of inspiring learners' deep cognition. Specifically, the wisdom classroom breaks the time-space boundary of the traditional Chinese classroom education scene, promotes the multi-dimensional and interdisciplinary exchange of Chinese teaching information, and expands the learning horizon of learners. This kind of intelligent teaching can activate the mutual communication of multiple information carriers, promote the effective use of artificial intelligence in college Chinese teaching, so that teaching can be more high-quality development, to meet the needs of the development of The Times.

## 4. The Construction Path of Intelligent Teaching of College Chinese

With the continuous progress of artificial intelligence technology, the working paradigm of "artificial intelligence + education" has already had a relatively profound technical motivation, which makes the ideological education subject can also have a great change compared with before.[5]The study of Chinese not only emphasizes the transmit of Chinese knowledge, but also emphasizes that students can feel the charm of words and literature through the study of Chinese, so that words and literature can participate in students' life, and through literature, students can also appreciate the beauty in life, the charm of expression and the charm of words. Especially in the real scene, language can play its own unique value. Artificial intelligence technology has been more and more suitable to be used in the teaching of college Chinese, so it is of great significance and value to explore the construction path of college Chinese intelligent teaching. This research mainly focuses on the path of intelligent teaching of college Chinese from the aspects of transforming teaching concept, reforming teaching design, innovating teaching activities and constructing diversified teaching evaluation.

### 4.1. Transform Teaching Concepts through Artificial Intelligence

Classroom is the main battlefield of education and the main channel of educating people.[6] Therefore, college Chinese teaching under the background of wisdom needs to carry out profound classroom reform through artificial intelligence, and then promote the transformation of teaching ideas. As the

saying goes, "a thousand readers have a thousand Hamlets", therefore, in actual teaching, college Chinese teachers should stand on the height of life, regard every student as a unique individual, and then give every student the methods and abilities to know themselves and the external world through various intelligent ways, and fully stimulate their subjective initiative. Improve their sense of self-efficacy to help them become better themselves, so as to ultimately achieve the goal of high-quality innovative talent training of "everyone has their own view". This requires the use of artificial intelligence technology to lead the transformation of the concept of college Chinese teaching, integrate value education into the whole college Chinese teaching, effectively implement the fundamental task of cultivating morality and cultivating people, adhere to the five education simultaneously, develop quality education in an all-round way, strengthen curriculum thinking and politics, and deepen the concept of curriculum education, culture education, and activity education. On the basis of independent learning, collaborative learning and inquiry learning, students can deepen their theoretical cognition, reduce the cost of practical education, and realize the "integration of knowledge and action".

Intelligent teaching mainly follows the principle of subjectivity, personalized teaching and systematic teaching.[7] It emphasizes the concepts of deep classroom, mixed learning, man-machine collaboration and visualization. Therefore, the college Chinese classroom under the background of intelligent teaching is not limited to teachers and students must be in the same time and space. Because with the help of artificial intelligence technology, teachers and students can communicate and exchange online anytime and anywhere, carry out discussion and exploration, and complete the assignment, submission and evaluation of homework in the whole online "without contact". At the same time, students can also carry out various kinds of extended learning online according to their own interests and language ability level. Intelligent teaching management under the information environment can realize real-time feedback and dynamic monitoring of teaching quality, so that teachers can supervise and understand students' self-learning before class, homework completion progress and extended learning process online, as well as participate in practice. Meanwhile, artificial intelligence makes educational decision making and resource allocation more granular, so it can be more conducive to the development and application of intelligent teaching.

In addition, the educational method under the background of intelligent teaching also needs to make corresponding changes to promote the teaching method to be suitable for the development of science and technology, so as to radiate new values in the development of The Times. To achieve this purpose, it is necessary to play the functional value of artificial intelligence technology. Through man-machine collaboration, the goal of cultivating innovative talents in the new era with all-round development of morality, intelligence, body and labor is realized. In terms of moral education, college Chinese teachers in the new era should insist on leading the fashion with bright virtues. Therefore, various classic ancient moral education stories can be made into animation videos and uploaded to the network teaching platform for students to watch and learn, so that they can understand the reason and advocate morality. In terms of aesthetic education, teachers can make use of some programs of CCTV to promote the excellent traditional Chinese culture,

and campus cultural activities such as calligraphy contest and classic poetry recitation contest held in the second class of college Chinese, so that students can feel the influence of literature, music, calligraphy and other aesthetic education elements. In terms of labor education, students can shoot scenes of their parents' work, and match them with certain words to express them, and upload them to online teaching platforms to strengthen students' labor education concepts and gratitude to their parents.

## 4.2. Deepening Man-machine Collaborative Reform Teaching Design

Once upon a time, many experts and scholars believed that social science subjects such as college Chinese and college ideological and political courses were not suitable for intelligent teaching methods to carry out teaching. However, with the continuous development of artificial intelligence technology itself and the gradual deepening of the application of artificial intelligence in the construction of teaching systems, artificial intelligence has begun to become more humane and diversified. It is no longer rigid and blunt data analysis, but more and more can adapt and meet the needs of a variety of complex situations, so it can be more widely used in social science disciplines. Nowadays, artificial intelligence has had a great impact on the transformation of curriculum teaching thinking, the operation of the platform, the way of data processing, and the effect of information dissemination.

Therefore, the intelligent teaching of college Chinese should continue to deepen man-machine coordination, and then change the teaching design.

The teaching mode of college Chinese under the background of wisdom is mainly divided into three stages: before class, during class and after class, including teaching process, learning mode and technical support (as shown in Figure 2). Generally speaking, students need to complete self-learning, knowledge detection, data processing, and submit learning tasks on the network teaching platform before class. Then the teacher should collect, organize and summarize the students' pre-class learning, and formulate targeted teaching plans according to the obtained students' self-learning before class, that is, "learning determines teaching". In class, teachers should actively carry out teaching interaction and collaborative exploration, focusing on effectively solving students' various problems in the pre-class preview, and timely answering students' doubts. After class, teachers can promote students' understanding and mastery of knowledge through personalized counseling and communication. At the same time, as a public basic course, teachers should also expand the teaching content according to the characteristics of students' majors, future employment direction, mental characteristics and interests, so as to allow students who have the strength to learn or have higher literary literacy needs to extend learning. Finally, teachers need to monitor students' learning in real time, and give feedback and guidance to improve the pertinence and effectiveness of teaching.

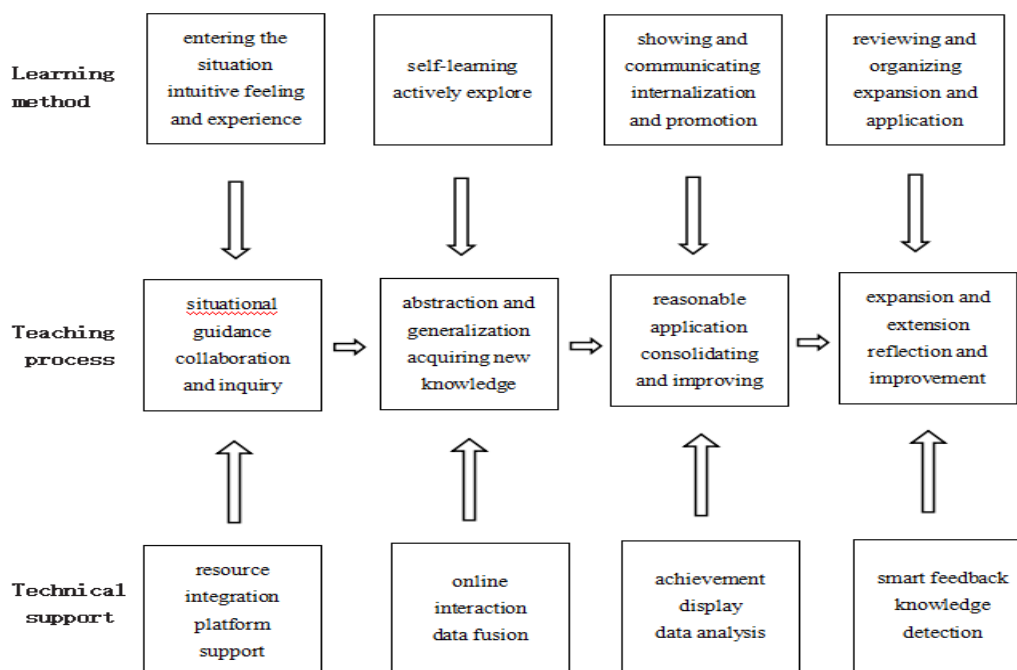


Fig 2. Intelligent classroom teaching mode of college Chinese

Of course, in addition to the reform of teaching links, college Chinese teachers should reconsider the design of teaching objectives, teaching strategies and teaching evaluation under the guidance of intelligent thinking. Generally speaking, the design of intelligent teaching goals of college Chinese needs to mark the core quality of students' development, pay attention to higher-order thinking, and set them around helping to improve students' comprehensive quality. The design of teaching strategy should carry out the adaptive interaction of man-machine coordination, realize data-driven deep learning, and focus on the immersive

teaching experience of holographic scene teaching. For the design of teaching evaluation, teachers should rely on multi-dimensional data to carry out dynamic intelligent visual analysis and realize the accompanying multi-process evaluation, and the evaluation system should include the development of students' wisdom and the improvement of core qualities, as well as the coping ability, psychological quality and labor education, and the effectiveness of aesthetic education.

### 4.3. Integrate Intelligent Technology to Innovate Teaching Activities

Chairman Xi once pointed out that "Chinese classes should learn ancient poems and classics to carry on the fine traditional culture of the Chinese nation." Therefore, inheriting the excellent traditional Chinese culture is an important mission of college Chinese courses. So, how should college Chinese classes teach students about ancient poetry and classics? This requires that the intelligent teaching of college Chinese should fully integrate intelligent technology and innovate teaching activities.

This is because a large number of young students have experienced the Chinese exam-oriented education in primary and secondary schools, there is a certain resistance to classical Chinese, ancient poetry and so on, so after entering the university, most of them are not willing to contact the ancient poetry and classics, that is, lack of enthusiasm for learning in this respect. Since the rigid theoretical explanation has been unable to attract young students' attention to the excellent traditional Chinese culture, college Chinese teachers need to use the "Internet +" and "intelligent +" teaching platforms and educational apps to achieve diversified content presentation, contextualized instant interaction, personalized resource push and systematic knowledge construction. Then the intelligent visual teaching, personalized customized teaching and man-machine collaborative teaching are carried out. Specifically, that is, college Chinese teachers can use AR, VR, MR And other new technological means to take students "into" the pre-Qin, Han, Tang, as well as Song, Yuan, Ming and Qing dynasties, so that students can effectively experience and feel the city people, cultural features and historical changes in those cultural flourishing times. After experiencing the superb and profound wisdom of the outstanding figures in the pre-Qin period, the calm and calm policy of governing the country in the Han Dynasty, and the open and inclusive social atmosphere of the Tang Dynasty, students will naturally have a more concrete understanding of the background of the ancient poems and classics in various periods of history, so that they can read and appreciate these classic literary works more easily. At the same time, it is the so-called "love because of understanding", so on this basis, students will love ancient poetry more, and will imperceptibly continue to enhance cultural self-confidence.

It can be seen that college Chinese teaching should not be a way for teachers to push students forward, but to cultivate the cognitive structure of deep learning by guiding students to take the initiative to obtain information, and then creatively develop new subject wisdom from their existing knowledge framework. In this process, students change from passive receivers of knowledge to active explorers of knowledge, so that the compound and innovation of talent training education can be realized in the end, and even a veritable "intelligent" education of man-machine cooperation in cultivating talents can be formed.

### 4.4. Linkage Data Analysis to Construct Diversified Teaching Evaluation

In order to realize intelligent teaching in college Chinese, it is necessary to construct diversified teaching evaluation with the help of linkage data analysis. In terms of evaluation concept, we should emphasize people-oriented and carry out panoramic personalized evaluation. In terms of evaluation methods, it is necessary to rely on artificial intelligence

technology to conduct intelligent perception and dynamic storage of behavioral data, process data and emotional data related to teaching and learning in the classroom, and finally realize the accompanying diversified whole-process teaching evaluation.

Therefore, the evaluation of intelligent college Chinese teaching should have the characteristics of multi-dimension, all-round and long-term, and teachers should comprehensively evaluate the complete behavior of students through the performance reflected by various kinds of data. This includes not only the conventional theoretical test results, but also the development of students' wisdom and the improvement of core qualities. At the same time, students' coping ability, psychological quality and labor education, and the effectiveness of aesthetic education should be indexed. This diversified evaluation system can be more sensitive to the problem, but also can find the root cause of the problem, which is convenient for teachers to solve the problems and shortcomings of students. In addition, teachers can also make constructive comments and suggestions on students' language potential through continuous data analysis. Such comprehensive and multiple evaluation is not only conducive to the development and progress of students, but also conducive to the cultivation of compound and innovative talents for the country.

## 5. Summary

Under the condition of artificial intelligence, how to realize the intelligent learning of social science subjects such as college Chinese is one of the current research emphases of higher education. Starting from the actual needs of intelligent teaching of college Chinese, this study analyzes the innovation principle and internal logic of intelligent teaching of college Chinese, and explores the construction path of intelligent teaching of college Chinese, which provides some basis and foundations for the application of artificial intelligence in college Chinese and the development of intelligent learning. The shortcoming of this study is that due to the level and capability, the understanding and understanding of emerging science and technology such as artificial intelligence need to be further improved. Therefore, the cognition and construction of the intelligent teaching of college Chinese are not too deep and slightly shallow. Of course, this will be the motivation and direction of the next study and research.

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