Research on Literature Aesthetic Education Based on Neural Network Algorithm

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Abstract. Chinese traditional Chinese language and literature learning mode emphasizes the application of knowledge, and pays attention to strengthening students' memory of literary knowledge and literary theory in the process of Chinese language and literature learning, but the cultivation of aesthetic education has not been implemented. With the great development of ideology and culture, literary workers have created a large number of literary works, which poses new challenges to the application of natural language processing technology. Chinese language and literature, as a treasure of the Chinese nation, contains rich aesthetic elements and plays an important role in improving people's humanistic cultivation and cultivating people's aesthetic consciousness. In the teaching of Chinese language and literature, aesthetic education is beneficial to highlight the core connotation of the major and promote the overall development of students. On the basis of expounding the value connotation of aesthetic education in Chinese language and literature teaching, this paper analyzes the application of aesthetic education in Chinese language and literature teaching, and explores the specific implementation path of aesthetic education in Chinese language and culture specialty based on neural network algorithm.

Keywords: Chinese language and literature, Aesthetic education, Learning mode, Implementation path

1. Introduction
With the continuous development of today's era, students' humanistic cultivation and humanistic quality need to be continuously strengthened, and cultural pluralism is the main development trend at present, among which Chinese language and literature, with its unique charm, is a very extensive and popular major in Chinese universities [1]. Chinese language and literature teaching is rich in content, including many fields of knowledge, and its teaching methods are flexible, which helps students keep high enthusiasm in learning, thus enhancing the teaching effect of Chinese language and literature. Literature education is to make people more consciously engage in dialogue from the outside to the inside in the world of literature, to generate communication, to get comfort, to expand imagination, to open up thinking, to stimulate emotions, to enhance the realm and to increase artistic sensibility and imagination [2]. In the process of the development of the times, the society's requirements for talents' humanistic quality and humanistic cultivation are constantly strengthened and improved. In the
process of globalization, cultural diversity has gradually become the consensus of all sectors of society. Chinese ancient literature is the traditional aesthetic culture with the most classical charm, which is the materialized form of the aesthetic ideal of the Chinese nation, and the unique life experience and poetic feelings of ancient humanistic intellectuals [3]. Integrating aesthetic education into Chinese language and literature teaching can deepen students' understanding of beauty, enhance their perception of beauty, and make students pay attention to their own "beauty" cultivation while contributing to the creation of social "beauty" [4].

In the past, more researches were done in the field of literary aesthetic education, either on educational content or teachers, while relatively little research was done on students' acceptance of literary aesthetic education. In fact, it is an important measure to promote and optimize literary aesthetic education activities by paying attention to the reception effect of the recipients and students in the field of literary aesthetic education. The cultivation of aesthetic education is conducive to promoting students' professional quality and humanistic accomplishment, and plays a significant role in developing students' thinking and understanding the charm of Chinese language and literature. Under the cultivation of aesthetic education mode, students' professional quality can be significantly improved [5]. At present, the development of Chinese language and literature education in many colleges and universities is relatively random. The single form of education neglects the cultivation of students' aesthetic ability and quality, and classroom teaching is generally lacking in interest and systematicness. The development of computer technology promotes the continuous progress of natural language processing technology. Text analysis and processing is realized by natural language processing technology. In the information society, the amount of data is increasing exponentially, and the number of literary works is also increasing rapidly [6]. Aesthetic education plays an important role in the development of Chinese language and literature teaching, which requires teachers to explore aesthetic education methods according to Chinese language and literature teaching and promote the development of Chinese language and literature teaching [7]. This paper analyzes the aesthetic education in class based on neural network algorithm, and discusses how to cultivate aesthetic education and how to improve students' aesthetic ability of Chinese language and literature.

2. The current situation of Chinese language and literature learning mode
At present, college students have not been trained in aesthetic education in Chinese language and literature teaching, which is due to the fact that teachers and college administrators have not paid attention to the cultivation of aesthetic ability. Chinese language and literature major, as an important part of Chinese language curriculum system in Chinese universities, has developed for a long time, and has made certain achievements in both theoretical research and educational construction. Although the Chinese language and literature major has a long history, its teaching courses have not been well arranged in the continuous development of the times, and the teaching of Chinese language and literature major has not met the requirements of the development of cultural pluralism, and the teaching mode of Chinese language has not been effectively changed. Influenced by traditional educational ideas, Chinese language and literature majors in colleges and universities, like other majors, have focused on imparting basic theoretical knowledge, ignoring the cultivation of students' aesthetic qualities for a long time. At present, most college students have not been effectively trained in aesthetic quality in Chinese language and literature education. The reason for this problem is that college administrators and teaching staff have not paid attention to aesthetic education.

As recipients, students' values, cultural background, interests and hobbies constitute the aesthetic expectation in the process of literary aesthetic acceptance, which will greatly affect students' acceptance effect on the content and methods of literary aesthetic education. Students will examine the content of literary aesthetic education according to the established expectation horizon, and make corresponding choices actively. In the process of teaching Chinese language and literature, students' subjectivity is not fully mobilized, which hinders the cultivation of students' professional ability, makes students' learning interest decline, and does not play an important role in improving students' humanistic cultivation and professional quality. Literature aesthetic education should start from the
perspective of students' aesthetic expectation, give full consideration to students' knowledge level, aesthetic accomplishment, interests and hobbies, etc., and be targeted, so as to effectively promote the scientific literature aesthetic education [8]. In the process of literary aesthetic education, students' acceptance depends on a series of external factors. In the process of literary aesthetic education, students' acceptance is always based on their individual cognitive structure. When the aesthetic knowledge of literature taught by teachers tends to be consistent with the original knowledge structure of students, students will bring foreign literary knowledge into the existing cognitive structure and reorganize and integrate their own knowledge structure.

Under the influence of exam-oriented education, some teachers and students carry out learning activities in pursuit of high grades, and there are problems in the motivation of participating in Chinese language and literature teaching at the beginning. No matter how much we emphasize aesthetic education, students will give up aesthetic education because they learn basic knowledge. In the teaching of Chinese language and literature, teachers pay too much attention to the cultivation of theoretical quality, and blindly impart theoretical knowledge without paying attention to the use of practice to mobilize students' subjectivity, which makes students' teaching subjectivity unable to be brought into play and their practical ability unable to be cultivated. There is a serious disconnect between Chinese language education curriculum in colleges and universities. The lack of class hours and systematic curriculum make many educators unwilling to pay too much energy to think about aesthetic education mode and unable to implement practical courses into teaching plans. Because of the interaction between practice and theory, lack of practice leads to a lack of new comprehension of theoretical knowledge in the process of practice, and its mastery level of theory cannot rise to a new height. This has a negative impact on the improvement of students' learning ability and comprehensive quality, and it will hinder students' future work and life to a certain extent, and has an indescribable impact on their professional development. In the process of literary aesthetic education, teachers should carefully analyze the existing knowledge structure of students, and guide students to connect the old and new knowledge to achieve reasonable integration, so as to achieve the expected best effect in literary aesthetic education.

3. An analysis of the importance of aesthetic education in Chinese language and literature
Aesthetic education has rich and varied meanings in different research fields. Aesthetic education is a special educational activity in culturology, and the connotation of aesthetics in sociology is quite different from that in cultural study. Different fields have completely different definitions and interpretations of aesthetic education. Aesthetic education has a special position in culturology, and its connotations in cultural study and sociology are different. Cultural studies summarize aesthetic education as cultural insight and sensitivity. Figure 1 is a generalized model of Chinese language and literature under the background of aesthetic thought.

Figure 1 Overview model

Aesthetic education plays a key role in improving students' literary quality. Because Chinese language and literature is also one of the key courses in colleges and universities, integrating aesthetic education with Chinese language and literature teaching can more effectively shape students' perception of culture, cultivate students' positive and objective mentality, and enable students to have a colorful spiritual world. As an important course in colleges and universities in recent years, the combination of Chinese language and literature and aesthetic education can make students form a positive attitude, which can help students better understand the world [9]. Aesthetic teaching, as a kind
of emotional teaching that can go deep into students' hearts, enables people to better appreciate the connotation of humanistic cultivation and perceive the potential charm of Chinese language and literature in the process of discovering and perceiving beauty in sociology. The commonality between aesthetic education and culturology determines that aesthetic education can help people discover and appreciate the humanistic connotation and feel the charm of Chinese language and literature in the process of education. The integration of Chinese language and culture teaching and aesthetic education is of positive significance. Art is the real ideology in Chinese language and culture teaching, and it is also the medium of aesthetic education, which plays an important role in enhancing students' social adaptability.

To establish the norms of aesthetic education, theories must be followed. Since this theoretical principle is a theory that reveals human cognitive characteristics, it should be a cognitive graphic theory. Taking the statistical results of aesthetic education parameters as the research object, data clustering and information fusion are carried out. Table 1 shows the test results of this indicator.

| Table 1 Evaluation test data |
|-----------------------------|
| Stage | Frequency | Accuracy |
| 1     | 77.41     | 82.56    |
| 2     | 74.89     | 89.78    |
| 3     | 69.30     | 88.64    |
| 4     | 82.25     | 88.26    |
| 5     | 77.90     | 87.37    |
| 6     | 68.71     | 90.26    |

After obtaining the result of data clustering, evaluate the result of clustering from two parts of purity and entropy. The purity of each cluster is expressed as:

$$purity_i = \max\left(p_{ij}\right)_{i,j=1,2,...,10}$$

$$p_{ij} = \frac{m_{ij}}{m_i}$$

and $$i \neq j$$, where $$m_i$$ is the number of all members in cluster i, $$m_{ij}$$ is the number of members belonging to j in cluster i, and the purity of the entire cluster division is:

$$purity = \sum_{i=1}^{k} \frac{m_i}{m} purity_i$$  \hspace{1cm} (2)

k is the number of clusters, and m is the number of members involved in the entire cluster member. The entropy of each cluster can be expressed as:

$$entropy_i = -\sum_{j=1}^{L} p_{ij} \log_2 p_{ij}$$  \hspace{1cm} (3)

Among them, L is the number of classes, how many classes are in each cluster, and the entropy of the entire cluster is:

$$entropy = \sum_{i=1}^{k} \frac{m_i}{m} entropy_i$$  \hspace{1cm} (4)

For a long time, the extreme ideology of literary creation has restrained the development of aesthetic education, but it has created a unique deconstruction object for aesthetic education. Assimilation is the process by which the subject transforms the object, and adaptation is the process by which the subject transforms under the action of the object. This is useful for observing the simulation of aesthetic education design in different directions. Table 2 is the experimental data.

| Table 2 Time domain values and algorithm simulation parameters |
|---------------------------------------------------------------|
| Time domain value | Analog parameters |
| 414.19            | 453.61           |
| 515.88            | 433.73           |
| 356.67            | 502.29           |
| 457.64            | 511.61           |
To some extent, aesthetic education is an effective way to obtain positive psychology and enrich emotional experience. In the teaching of Chinese language and literature, by organizing various aesthetic activities for students, it is not only conducive to the formation of students' good psychological quality, but also to promote the development of their creativity and thinking quality, and meet the needs of students' individual development. Aesthetic education can create a learning environment for students to feel and experience beauty, and make students full of enthusiasm and concentration in Chinese language and literature teaching, not only enhance teaching effect, but also have an important impact on the formation of students' aesthetic interest and healthy personality. Aesthetic education can create a learning environment for students to feel and experience beauty, and make students full of enthusiasm and concentration in Chinese language and literature teaching, not only enhance teaching effect, but also have an important impact on the formation of students' aesthetic interest and healthy personality. Aesthetic education includes the learning and teaching mode of art. In the process of Chinese language and culture teaching, people's ideas and behaviors should be guided, and aesthetic education can make students form good learning habits. Therefore, the implementation of aesthetic education can effectively enhance the learning ability of Chinese language and culture for students, and is conducive to the improvement of personal quality. Aesthetic education presents the beautiful aspects of society and nature, arouses the students' pursuit of beauty, and gradually improves their aesthetic ability and forms a good aesthetic habit. This fully reflects the application value and necessity of aesthetic education, which is very beneficial to the comprehensive quality and personality development of students.

4. The implementation measures of aesthetic education of Chinese language and Literature

4.1 Enrich content and cultivate interest

Students are builders and successors who promote the development of society and the country, and their knowledge and ability play a key role. Therefore, teachers should guide students' correct understanding of Chinese language and literature, arouse students' enthusiasm for learning with its value, and help students form a correct aesthetic consciousness, so that students can experience the cultural connotation and charm of words in literature reading and creation. In the process of appreciating literary works, teachers need to set teaching objectives with a serious attitude. Through rigorous analysis of the author's literary works, they can thoroughly and deeply understand the author's feelings, and they can make students feel immersive with the help of multimedia facilities or explaining their own feelings. In the process of appreciating literary works, students can resonate by appreciating the author's own emotions, better understand literary works, and feel the existence of beauty in works [10]. There are rich aesthetic elements in Chinese language and literature. In the teaching practice of Chinese language and literature, teachers should be fully prepared, combine all aspects, play their guiding role, and lead students to feel the emotions expressed in words and cultivate their aesthetic ability. Students' artistic realm needs the careful cultivation of Chinese language and literature teaching workers, and they act as guides and guides in the daily teaching process, so that students can constantly appreciate the factors of beauty, perceive the realm of beauty and enhance the college students' perception of beauty.

4.2 Innovative methods and thinking

In the aesthetic education of Chinese language and literature teaching, in order to get half the result with half the effort, we must first innovate the teaching methods of Chinese language and literature. In the process of leading students to appreciate literary works, teachers need to deeply understand the true feelings of each author, help students with appropriate methods and multimedia teaching facilities, and make students feel immersive. Teachers should constantly make students feel beauty in the process of appreciation and teaching of Chinese language and literature works, help students explore beauty, improve aesthetic factors and artistic realm, better perceive the abundant emotion and unique charm of literary works, and then improve their literary accomplishment, so that students can establish correct emotion and meet the needs of social development. Only when students can feel the charm and style of articles from different angles can they have a profound insight into the theme center of articles.
 Teachers majoring in Chinese language and literature should comprehensively analyze students' personality differences, vary from person to person, implement different educational methods for different students, and fully combine students' differences and their own advantages and disadvantages to carry out educational innovation, so as to stimulate students' imagination and creativity.

5. Conclusions
Chinese language and literature has a long history, so Chinese language and literature education needs to be studied in depth first. Because of its special value, it has a special position in higher education. This paper studies the penetration of aesthetic education in Chinese language and literature education, and analyzes the application value of aesthetic education in Chinese language and literature teaching. It has an important influence on improving students' learning ability and accomplishment, stimulating students' aesthetic taste and perfecting their personality. In order to improve the teaching quality of Chinese language and literature in colleges and universities, aesthetic teaching should be implemented, so as to enhance students' literary appreciation ability, promote students' all-round development, and enhance students' humanistic accomplishment and professional accomplishment. In order to comprehensively improve the quality of Chinese language education in colleges and universities, we must pay attention to the infiltration of aesthetic education, enhance students' literary quality and appreciation ability, guide students to grow in an all-round way, and enhance students' professional quality and humanistic cultivation. In the future work, college teaching staff should strengthen the cultivation of students' aesthetic ability, so that students can understand the charm of literary works more deeply, and should strengthen the exploration of students' aesthetic factors in the actual teaching process. Teachers should combine the current situation of Chinese language and literature teaching, innovate educational methods, and cultivate students' good ideological and cultural quality and aesthetic taste.

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