Scholar Publishing Group
International Journal of Educational Curriculum Management and Research
https://doi.org/10.38007/IJECMR.2021.020101
ISSN 2790-0967 Vol. 2, Issue 1: 1-7

Big Data Technology in Relevance Analysis of Chinese Traditional Arts and Crafts Garden Courses

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Keywords: Big Data, Chinese Traditional Arts and Crafts, Gardening Courses, Relevance Analysis

Abstract: The aesthetic value orientation of traditional cultural arts and crafts in the process of cultural creative industry is how to use the aesthetic ontological language to reflect the unique individual creativity of each person and carry and spread the excellent humanistic ideal tradition and life aesthetics accumulated in the historical process of Chinese society. However, the teaching effect of Chinese traditional arts and crafts garden course is not ideal. In order to improve the appeal of traditional arts and crafts to students, this paper, based on big data technology. According to the research needs, the contents of literatures were studied and summarized. The research shows that through artificial intelligence algorithm, students' math scores are improved and their personalities are fully displayed and developed.

1. Introduction

The word "arts and crafts" was once a household name and industry concept in China in the last century. On May 20, 1997, the Beijing Municipal People's Government issued the "Regulations on the Protection of Traditional Arts and Crafts" after the official approval of the announcement no. 217 of the Mayor's Decree of The State Council of the People's Republic of China. Draft regulations stipulated in article 2 of the special clear rules: the region single-line draft regulations, the term "traditional process in China's process of traditional arts and crafts arts and crafts, is only refers to the traditional process in contemporary China has continuously engaged in more than one hundred scale manufacture craft skills and exquisite is history long, skill level and superior, handed down from generation to generation, complete preservation Any of the traditional arts and crafts of a nation. The process technology of all kinds of production process are insisting on a variety of excellent natural wild organic raw materials plant varieties as the technology of raw material, with a more distinctive and prominent characteristics has the characteristics of local ethnic style and has a

prominent local characteristics, with its excellent craft varieties advantage resources and excellent characteristics of craft skills and enjoys a good reputation both at home and abroad. When we examine the relationship between arts and crafts and traditional creation and modern design from the perspective of historical development, we find that arts and crafts emphasize decorative, interesting and spiritual factors, while modern design emphasizes use and function. In many cases, they are facing the same things, but they have different perspectives. It is necessary for us to re-examine the relationship between arts and crafts and design creation when our country has fully entered the stage of high-tech and high information development [1-2].

Although traditional national arts and crafts have their own long and glorious inheritance history, they have been consciously and passively seeking for a cultural sense of The Times to survive for a long time. The rapid change of industrial mode in the information age has brought many unprecedented historic opportunities to our traditional national arts and crafts industry. Traditional arts and crafts must go through technological changes before they can be integrated into cultural and creative industries [3-4]. Traditional folk arts and crafts embody everyone's innate infinite creativity with the language of beauty and embody the traditional humanistic ideal connotation and traditional life aesthetics contained in the process of Chinese society's development. Its unique cultural added value will be recognized by the arts and crafts people of more and more countries around the world. In the context of globalization and informatization, big data technology has also played an important role in the production, display and marketing of design works, as well as in cross-regional cooperation.

Huang believes that the extension training can be added to the traditional arts and crafts kindergarten-based course to form a new course content to strengthen students' interest in the traditional arts and crafts Kindergarten-based course [5-6]. traditional arts and crafts gardening courses have been comprehensively reformed and optimized, and considerable progress has been made in evaluation methods and classification [7]. On the one hand, we have improved our understanding of traditional arts and crafts and traditional arts and crafts garden courses; on the other hand, the conclusion of the experiment is not convincing and convincing.

The innovation of this paper is mainly reflected in the following aspects :(1) traditional arts and crafts, as an activity project vigorously advocated by the state and widely concerned by the public in recent years, has always been the focus and focus of research.

2. Relevance Analysis Method of Chinese Traditional Arts and Crafts Garden Courses

Protecting and inheriting the fine traditional Chinese culture is an important connotation of cultural confidence. In order for traditional Chinese handicraft culture to achieve sustainable prosperity and development, it is necessary to firmly follow the cultural path of independent innovation research and development, and at the same time, it is necessary to further strengthen the public's comprehensive understanding, protection and utilization of handicraft intellectual property rights protection, and promote the effective protection of innovation and investment and trade of traditional property rights. Original culture encourages the development of design, technical innovation, strengthen the legal laws and regulations for creative design market in accordance with the law of intellectual property rights protection of copyright, trademark infringement and piracy printing and illegal behavior creativity, make optimization design achievements of property rights market supervision mechanism, the formation of the national property market of design results in the secondary market trading system [8]. Pop art elements of the era have become the hot spot of fashion and innovation, and become the source and ultimate destination of inspiration for artistic

creation and applied design. Contemporary innovative application and reasonable protection will promote the traditional arts and crafts to obtain greater development space[9].

The more samples there are, the more data samples may be obtained in the calculation process. The series of features and summaries that can be obtained from all these sample data samples are more general and scientific and rigorous, and the results of the sample data may become more regular. Big data mining technology needs to be able to analyze almost all the data related to something information, rather than simply relying on the analysis of a small number of data samples and accepting the complexity of data [10]. Therefore, when extracting data, the more samples, the more data will be obtained, and the more correlation will be formed. Therefore, it is not difficult to clearly see that this analytical technique is very consistent with the main technical characteristics of the future era of big data: by analyzing a large amount of big data, we can indeed obtain a very rich and valuable new product form, service or opinion.

Traditional arts and crafts gardens have a strong educational function. With the development of traditional arts and crafts gardens, especially with the development of big data technology, the traditional arts and crafts gardens play an increasingly important role. Its influence on students can be expressed by the following formula.

$$R = b_o^2 \left[1 + \frac{w''}{w'} \frac{au}{ad} + \ldots \right] \frac{a^2 r}{ad^2} \tag{1}$$

Where, the influence of R particle on time T; D is distance, and B02 is velocity. The relevant equation is:

$$\eta_2 = -\frac{w''}{2w'} \tag{2}$$

Variables of nonlinear equations of motion:

$$\frac{a^2 R}{at^2} = b_o^2 \left[1 - 2\eta_2 \frac{au}{ad} + \ldots \right] \frac{a^2 R}{ad^2} \tag{3}$$

The solution of the equation is:

$$R = R_1 \cos(qx - wd) - \frac{1}{4} \eta_2 q^2 R_2 x \sin 2(qx - wd) + \ldots \tag{4}$$

3. Correlative Experiment of Chinese Traditional Arts and Crafts Garden Course

3.1. The Experiment Purpose

This paper makes full use of the research results of the field of Traditional Chinese handicrafts, to achieve the goal of the best traditional handicrafts, through the investigation of 6 categories of mathematics scores in the high school in the city,3 months after the teaching in the big data model, again, the results of statistical comparison, to understand the in-depth study of the existing problems in colleges and universities, It is feasible to construct the relevance system based on big data technology in the course of Traditional Chinese arts and crafts landscape architecture.

3.2. Establish Model Evaluation Index System

Definite conclusions can be drawn from actual observation of objects. Generally speaking, the evaluation index system should include the following three basic levels of specific evaluation quantitative indicators: they are gradually decomposed and refined and the organic relationship between decomposition refinements mutually promote. Among them, the first-level comprehensive evaluation assessment index and the second-level subject evaluation assessment index are generally boring and abstract, which can not be used as the basic basis for direct evaluation and analysis of teaching quality.

3.3. Determine Evaluation Weight

Indicator weight, also called weight, is usually represented by A, which is a number greater than 0 but less than 1. The sum of weights of all level-1 indicators must be equal to 1, that is, to meet the conditions $0<A<1$ entropy method is a relatively objective evaluation index weight assignment method, which can effectively avoid the subjectivity of manual scoring and has high accuracy. Therefore, entropy method combined with entropy method is used to determine the value.

3.4. Statistics

In this paper, SPSS19.0 is used to carry out related experiments, and the statistical method is bilateral test. In statistics, when $P<0.05$ is significant. The results are expressed as mean standard deviation ($X \pm SD$). When the data obeys the normal distribution rule, the double T test is used, and the data comparison among members adopts the T test of two independent samples.

4. Correlative Experiment of Chinese Traditional Arts and Crafts Garden Course

We investigated the status quo and learning interest of traditional arts and crafts performance of 6 classes of students in a university in this city, and understood the basic mathematics and scores of these classes, as shown in Table 1:

Table 1. Basic mathematics

	Math scores	Interest intensity	Thinking Ability	Calculate ability	P
1	78	0.341	0.373	0.368	<0.02
2	83	0.448	0.394	0.377	<0.02
3	76	0.414	0.406	0.423	<0.02
4	87	0.528	0.518	0.533	<0.02
5	85	0.493	0.482	0.472	<0.02
6	92	0.396	0.362	0.392	<0.02

As can be seen from Figure 1, among the six classes in the experiment, the sixth class has the highest score, and it is also the only class with a score above 90, but other values are relatively inferior. For example, interest and thinking skills are about 0.2 percentage points behind. This shows that students can't satisfy their grades and interest in learning at the same time.

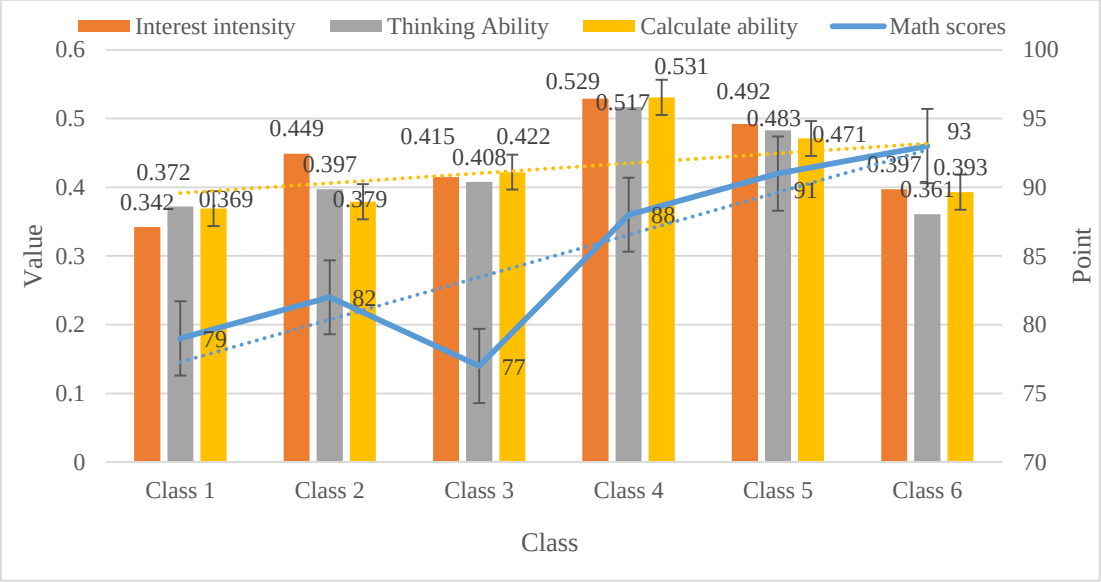

Table 1. The status quo of basic mathematics in the class

Table 2. Student values

	Math scores	Interest intensity	Thinking Ability	Calculate ability	P
1	87	0.572	0.511	0.514	<0.02
2	93	0.544	0.543	0.523	<0.02
3	86	0.616	0.574	0.607	<0.02
4	92	0.644	0.656	0.638	<0.02
5	95	0.716	0.728	0.713	<0.02
6	96	0.674	0.647	0.664	<0.02

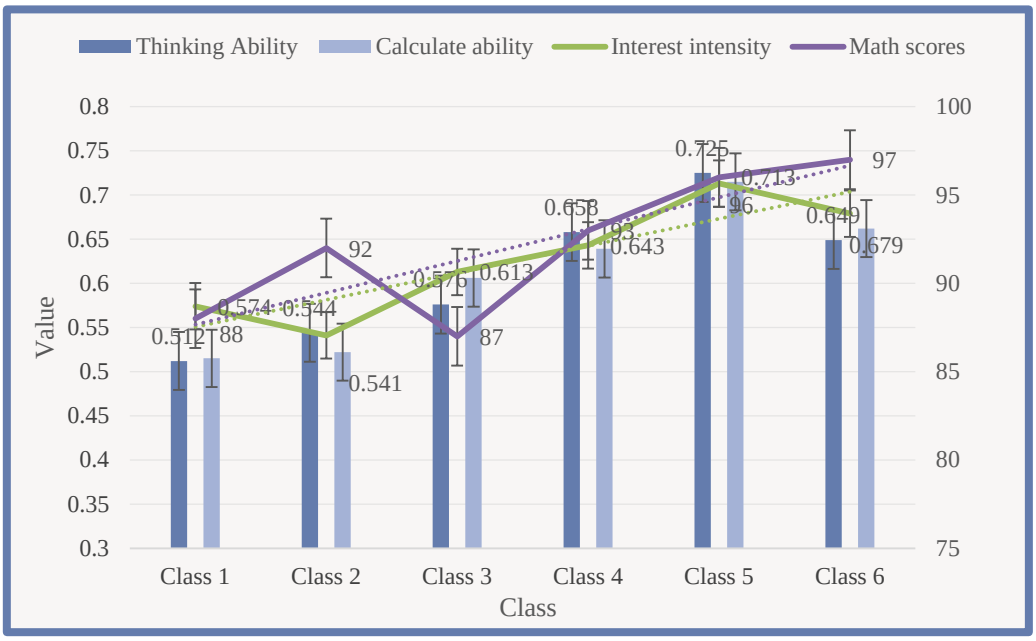

Table 2. Student situation after artificial intelligence assisted teaching

The average score of college entrance examination has been raised from 84 points last year to 92 points at present. The results have been significantly improved, and students' hands-on learning ability and analytical thinking ability have been significantly improved. The range is very clear. All this shows that after the introduction of big data to assist the implementation of curriculum teaching, students' academic performance in all subjects can be rapidly improved in a more effective and reasonable way, students' interest in extracurricular active learning activities can be stimulated quickly, and their enthusiasm in learning and life can also be effectively improved.

5. Conclusion

Traditional arts and crafts production has a long and heavy human history. They all experienced a great degree of ideological openness and political closure in the whole process of China's transformation from the ancient and traditional social civilization to the modern material society and culture, but at the same time, they have always been able to consciously and actively seek a new era consciousness of self-survival. The historical transformation of the industrial model in the information age brings a great opportunity for the development of China's traditional culture, arts and crafts in a new period. For cultural and creative industries, the investment of human intelligence resources is higher than that of natural resources, and intellectual property protection is regarded as the top priority. Facing the new form of cultural creative industry, the traditional arts and crafts must be reformed if they want to be integrated into the cultural creative industry. Traditional arts and crafts are not only traditional arts and crafts inherited from fire, but also have a solid psychological basis of national culture. The creativity of cultural tradition and individual creativity can undoubtedly increase the added value of cultural creative products exponentially. Under the background of global economic integration, Chinese traditional arts and crafts highlight the value of cultural orientation and have distinct cultural symbol characteristics. In the new era of Internet Innovation and Development 2.0, it is a new business ecology in which Internet technology and China's traditional competitive industries are integrated and developed together. The traditional national arts and crafts industry has taken the road of modernization of cultural tourism creative leisure industry. In the future, they can make full use of the "Internet plus" digital thinking in practice, and make use of Internet platform resources and mobile information fusion communication platform technology to form online and offline products. Research and development, advertising, sales, service industry chain.

Funding

The follow-up research results of Jiangxi University Humanities Project (No.: JY20202).

Data Availability

Data sharing is not applicable to this article as no new data were created or analysed in this study.

Conflict of Interest

The author states that this article has no conflict of interest.

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