Retraction

Retraction: Analyze the Development of Public English Courses education in Vocational schools Based on AI and Big Data (J. Phys.: Conf. Ser. 1744 042210)

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The authors of the article have been given opportunity to present evidence that they were the original and genuine creators of the work, however at the time of publication of this notice, IOP Publishing has not received any response. IOP Publishing has analysed the article and agrees there are enough indicators to cause serious doubts over the legitimacy of the work and agree this article should be retracted. The authors are encouraged to contact IOP Publishing Limited if they have any comments on this retraction.

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Analyze the Development of Public English Courses education in Vocational schools Based on AI and Big Data

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Abstract. Under the influence of economic globalization, more and more technical talents with good English expression ability are needed in modern society. At present, public English has become a compulsory course in vocational school. In order to train talents loved by enterprises, vocational school organize various education activities that are conducive to public English Learning under the background of national education reform. The purpose of this paper is to analyze the development of public English Courses education in Vocational schools Based on AI big data. This paper summarizes the latest research progress of big data analysis method based on AI technology. This paper analyzes the research status of machine learning in big data environment. Then this paper proposes a personalized and developmental curriculum education model. The model is based on the big data composed of classroom education, extracurricular self-study and part of daily life. Through data mining technology, the evaluation of each student in the course of learning is given. The results show that the failure rate and the average rate of the class are greatly reduced, and the good rate is increased from 30% to 66%.

Keywords: Big Data, Artificial Intelligence, Public English, Course Education

1. Introduction
The State Council has held several national vocational education work conferences to promote the rapid development of higher vocational education in my country [1]. At present, both the leadership and the reform efforts are unprecedented [2-3]. Higher vocational education has received unprecedented attention, which fully demonstrates that higher vocational education is an objective requirement for economic quality and efficiency upgrading, an inevitable requirement for continuous improvement of people's livelihood, and an era requirement for the optimization and adjustment of educational structure [4-5]. At the same time, the efficiency of public English classroom education in vocational school has also received national attention. The purpose is to improve the effectiveness of English classroom education in vocational school and consolidate the basic knowledge and skills of students in vocational school; College students use English skills in practical social work [6].

Vocational school cultivate technical skills talents suitable for regional economic development. The cultivation of technical skills talents requires higher English proficiency for students. At the same time, in today's economic globalization, more and more professional courses are Published in English,
various foreign technical skills information is also circulated in the country in the form of English language. English is the main bridge and means for these highly skilled talents to obtain foreign advanced technical information and new technical skills, so the actual education of public Vocational College English the situation is closely related to the country’s talent training and the country’s economic development [7-8]. This requires the students of vocational school to master and master the basic knowledge of English and English skills [9]. How to improve the effectiveness of public English classroom education in vocational school, stimulate students' interest in public English learning in vocational school, and enable students to combine the theoretical language knowledge they have learned with specific practical applications, and cultivate both professional knowledge and English Skilled talents are an urgent need and should attract the attention of society, schools and families [10].

The topic of this research, the research focus is on the effectiveness of public English teacher classroom education in vocational schools. Through investigation and research on the current situation of public English classroom education in vocational schools, observation methods and questionnaire survey methods are used to understand public English classroom education. The real situation of the public English teacher’s classroom education is revealed, the influencing factors are explored, and the improvement methods to improve the effectiveness of public English classroom education in vocational school are proposed to provide reference opinions for front-line teachers and let students experience the long history of English Develop their English application awareness, and truly appreciate the application value and cultural value of English.

2. Big Data Analysis and Public English Course education

2.1 Big Data Analysis Based on Machine Learning

(1) Big data relevance analysis

Relevance analysis, also known as relevance mining, is one of the main tasks of big data mining, which is to find common patterns, association, association or causal structure between item sets or object sets in different data. However, the traditional serial algorithm scans the database many times, the I/O load is too large, and the efficiency is low. With the increase of the data scale, the computing power and storage capacity have become obstacles to association mining. In order to overcome the mining bottleneck in the traditional stand-alone environment, and for the correlation analysis of big data, MapReduce or Spark distributed computing framework can be used.

(2) Big data classification

Big data classification is an important tool in big data mining. Big data classification is a wide range of issues, which affects all areas of life, such as the use of network intrusion detection, medical diagnosis and so on.

2.2 Optimization of Education Process

The optimization of the education process is of great significance to the study of classroom education effectiveness. The optimization of the education process means that in the education process, teachers and students spend the least time and energy to obtain the greatest gains, so that students can get the best and fastest development. The key to the optimization of the education process is to concise and specific education tasks according to certain standards, select and implement the best plan for organizing education, so as to save time, achieve results, and improve efficiency. The "effectiveness" of classroom education effectiveness is essentially the pursuit of "optimization" of education under certain conditions, and the process of forming education effectiveness is actually the process of pursuing the optimization of education quality.

The enlightenment of this theory to the effectiveness of classroom education is: 1) English teachers should choose the most essential part of the education content, choose the best and most appropriate education schedule, and try to make students master them. 2) In education, the most reasonable way of introduction, lecture, questioning, and appropriate adjustments should be made according to the specific situation. 3) Reasonably control the education time in education, take measures to save time,
and choose the best education schedule. 4) "Optimization of education process" theoretically demonstrates the significance of this teacher's classroom education situation investigation, that is, to propose effective education behavior standards and optimize teachers' classroom education behavior.

3. Big Data Analysis Experiment Design

3.1 Experimental Data Processing

After statistical analysis of SPSS19.0, the collected forecasting data was revised to form a formal questionnaire with certain reliability and validity. Subsequently, using the formal questionnaire as a tool, a random sampling method was adopted to select a total of 136 public English teachers from vocational schools in five cities, as well as a total of 509 students from vocational schools in our city as the research subjects, which is effective for the recovery. The questionnaire was analyzed with SPSS19.0 and EXCEL2007. The calculation formula is:

\[ s^2 = \frac{1}{n-1} \sum_{i=1}^{n} (x_i - \bar{x})^2 \]  

(1)

According to the results of data analysis, understand the current situation and influencing factors of the effectiveness of communal English schoolroom education in vocational school. Secondly, this study uses a cluster random sampling method, and the questionnaire survey is shown in Table 1.

| Participant type | Number of copies issued | Number of recovered copies | Effective number of copies | Recovery rate | Efficient rate |
|------------------|-------------------------|---------------------------|---------------------------|---------------|---------------|
| student          | 509                     | 509                       | 470                       | 100%          | 92.34%        |
| teacher          | 143                     | 136                       | 124                       | 95.10%        | 91.18%        |

3.2 Construction of Experimental Model Based on Big Data Analysis

Based on the big data platform, this paper constructs a learning evaluation model with personalized and developmental characteristics. The model consists of three main modules: acquisition of information and data cleaning and integration, data mining and analysis, and information feedback. Data mining and analysis module adopts the Hadoop platform. The data mining algorithm provided by the platform has the aspect of parallel processing of data, which can process large-scale data quickly and effectively.

4. Analysis of Public English Course education in Vocational College

4.1 Analysis of the Basic Situation of the Sample

In this paper, Apriori algorithm is used to obtain the relationship between poor performance and learning interest or classroom performance. This algorithm is currently a more mature algorithm in data mining. Through the analysis of several weeks of data, the system will give the student's rating level. If the rating level is low, it will give early warning signals and early warning reasons, and make suggestions for students to improve their learning methods. The evaluation is for each individual student, and the collected data is not limited to in-class learning, and can give various reasons and suggestions for improvement. The system assessment changes with the progress of the course, which can clearly show the development of students. If there is no improvement for a long time, it will also give an early warning to avoid slipping in academic performance. The evaluation and improvement measures provided to students by the system after analysis are shown in Table 2.
Table 2. Index Volatility Coefficient Situation Table

| Student ID | Item name     | Original value | New value | Fluctuation coefficient |
|------------|---------------|----------------|-----------|-------------------------|
| 15051032   | test          | 98             | 77        | 0.214                   |
| 15051045   | Video on demand | 100           | 75        | 0.25                    |
| 15051063   | campus        | 352.5          | 503.3     | 0.456                   |

This article combines the public English courses of five different vocational schools to construct a simple big data platform. The summative evaluation results of the public English courses of all students surveyed are based on different courses in the same class (longitudinal comparison) and the same course in different classes (horizontal). Comparison) conducted a comparative test. The test result is shown in Figure 1.

![Figure 1](image)

Figure 1. Comparison of final grades in the same class

After analysis, it is found that the failing rate and the middle rate of Class A have dropped significantly, and the good rate has risen from 30% to 66%, and the excellent rate is basically the same.

4.2 Analysis of the Effectiveness of Communal English Schoolroom education in Vocational School

The role of a teacher is only an external cause, and the understanding and mastery of any knowledge and skills depends on the active learning of students. There is no doubt that students play a pivotal role in the effectiveness and effectiveness of classroom education. Without their active and effective participation and cooperation, education will inevitably lead to inefficiency or even ineffectiveness. By summarizing the questionnaire, it is concluded that the students of vocational school mainly influence the effectiveness of education through English learning interest, knowledge-based learning strategies and students' learning participation.

The results of education practice and vertical and horizontal comparison show that the use of new methods of classes and courses, students have obtained teachers' targeted supervision and guidance, improved their learning to a certain extent, and made significant progress, as shown in Figure 2.

![Figure 2](image)
With the emergence of new educational concepts, one of the main characteristics of modern education is to emphasize the student's dominant position in a complex, open and vibrant education system. Students are only passively listening to the class and not really participating in the classroom, which directly affects the effectiveness of English classroom education. If the effective teacher lacks the active, active, and truly effective participation of the students who occupy the dominant position, it is difficult to achieve effective education, the effectiveness of education cannot be guaranteed, and effective teachers become inefficient or even ineffective teachers.

5. Conclusion
The trend of business internationalization is more and more powerful, and the society and enterprises have more and more professional and technical talents with the ability to use English. Therefore, public English education must also conform to the requirements of the development of the times. The professional development of English teachers is reformed from both theoretical and practical aspects. In particular, the training of professional English ability for teachers, to achieve a combination of professional English education and language education, allows English teachers of different expertise to make full use of their professional advantages in their work, and promote higher vocational education in a short time. The level of English education in institutions.

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