Analysis the Innovation Path on Psychological Ideological with Political Teaching in Universities by Big Data in New Era

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1. Introduction

There is a complementary relationship for the mental health situation and ideological education. A good state of mental health situation allows people to receive the cognition Ideological with political in a fuller state. The cognition Ideological with political can make students develop a positive mental state, which can reduce the occurrence of people’s mental health situation diseases [1, 2]. With the increase of life pressure, people are more prone to problems with their mental health situation, which will also exacerbate the occurrence of extreme events. People need to master more mental health situation knowledge and ideological with political points [3, 4]. This is also because people lack psychological education and ideological with political knowledge. The purpose of mental health situation education is to hope that people will maintain a positive attitude and it also requires people to maintain a strong will, which can also reduce the occurrence of mental health situation problems.

The cognition Ideological with political is to let people accept more positive and optimistic knowledge through the means of political education, which is also can guide people to maintain a good attitude. In short, mental health situation and the education of ideological with political are an inseparable relationship. However, mental health situation problems are more private and difficult to cure in direct ways [5, 6]. Mental health situation problems are also different from other types of diseases, and it has an important relationship with people’s living environment and life values. Positive and optimistic life values and positive and optimistic life concepts will avoid the occurrence of mental health situation problems. Positive and optimistic psychological concepts are closely related to education and life experience. The cognition Ideological with political is a positive attitude that educates people to maintain a positive and optimistic attitude, life concept, and patriotism. This shows that mental health situation and the education of ideological with political are also closely related. In today’s era, many universities
have also carried out teaching work related to mental health situation and the education of ideological with political. Universities are a larger bridge connecting their study careers and social work. Students in universities will face major mental health situation problems, which requires the cognition Ideological with political [7, 8]. Since the relationship between mental health situation and ideology and politics is relatively close, universities are also places where mental health situation problems are relatively concentrated. Therefore, universities will carry out more teaching and educational work in mental health situation and ideological with political aspects. However, traditional mental health situation and the education of ideological with political is only to master the basic knowledge and relationship between the two. It is difficult to discover the relationship between mental health situation and ideological with political, and it is also difficult for students to master the relationship between mental health situation and ideological with political crowd influence [9, 10]. Therefore, people should master the teaching work of mental health situation and ideology and politics in a reasonable way.

For teaching in universities, most subjects are often taught in classrooms and textbooks. Teachers use textbooks to pass knowledge to students, but there is a lack of feedback. It is difficult to understand students’ mastery, and it is also difficult to stimulate students’ interest in learning. The teaching of mental health situation and ideological with political itself is a relatively boring subject. The traditional method is difficult for students to accept the relationship between mental health situation and ideology and politics, and it is also difficult for students to strengthen their positive and optimistic attitude through the cognition Ideological with political to reduce the risk of mental health situation problems [11, 12]. The purpose of mental health situation and ideological with political teaching is to let students understand the importance of ideological with political knowledge and the importance of mental health situation teaching. This will allow them to increase their interest in learning the cognition Ideological with political, which will also allow them to truly understand the purpose of the ideological with political teaching curriculum. Big data theory has been successfully applied in many feature extraction fields, which can extract complex nonlinear relationships. Similarly, the relevant characteristics of mental health situation and ideological with political teaching can be extracted and mapped by big data theory [13, 14]. This can solve the difficulties existing in mental health situation and ideological teaching tasks in traditional universities. Through big data theory, it can also improve students’ learning efficiency and interest in mental health situation and ideological with political teaching.

Big data theory is good at dealing with cumbersome and extremely large data, because big data theory can use the form of weight and bias to digitize and nonlinearly process the characteristics of research objects [15, 16]. Big data theory stagnated for a while at the end of the twentieth century, because the performance of computers could not keep up with the increase in the amount of data of research objects [17, 18]. In the early stage of the development of big data theory, it only used simple machine learning algorithms to deal with some simple research data problems. However, with the rapid development of high-performance computers, computer performance, and memory allow big data theory to deal with complex problems, which quickly derives more deep learning algorithms. Big data theory is also widely used in image recognition and video feature recognition, which also brings great convenience to people’s life and production. In life, the characteristics of research objects in production or life are mainly divided into three types: spatial characteristics, temporal characteristics, and environmental characteristics [19, 20]. It also has many corresponding algorithms. These mature big data algorithms can be leveraged by researchers, and it does not require much research. For mental health situation and ideological with political teaching in universities, big data theory can also extract relevant features in the teaching process, whether it is spatial or temporal features, and then it can complete the mapping of complex relationships among teaching tasks.

This research mainly uses big data theory to study the characteristics of mental health situation and ideological with political teaching in universities. It can solve the problems of low efficiency and difficulty in arousing students’ interest in mental health situation and ideological with political teaching. In the process of using big data, it mainly analyzes three aspects: student behavior information, mental health situation content characteristics, and ideological with political content characteristics in mental health situation and ideological with political teaching in universities. This study uses the atrous convolution (A-CNN) method and GRU method in big data theory to analyze these three characteristics. This research studies the application of big data theory in college teaching mental health situation and ideological with political aspects through 5 parts. Section 1 introduces the relationship between psychology and ideology and politics and the relevant background of big data theory. Section 2 analyzes the research status of mental health situation and the education of ideological with political. The design scheme of big data theory in college teaching mental health situation and ideological with political aspects is analyzed in Section 2. Section 4 explores the feasibility of ACNN and GRU technology in terms of characteristics related to teaching mental health situation and ideological with political aspects. In Section 4, this study analyzes the accuracy and feasibility of big data technology in psychology and ideological with political cognition by using the prediction error scatter plot of the three characteristics and the psychological teaching content prediction box plot. Section 5 summarizes the importance of big data theory for mental health situation and ideological with political teaching in universities.

2. Related Work

Mental health situation and the education of ideological with political are complementary contents. The cognition Ideological with political can improve people’s enthusiasm, which can reduce the probability of people’s mental health situation problems. Many researchers study the content of mental health situation and the education of ideological with
political. In order to solve the problems of low efficiency and poor stability of educational resources in the process of ideological with political teaching, it designs an intelligent the cognition Ideological with political resource integration model. Liu and Huang [21] use deep learning and data mining technology to integrate ideological with political-related educational resources. It uses the decision tree in data mining technology to deeply mine the content of the cognition Ideological with political resources, and then it integrates these the cognition Ideological with political resources. It also uses the LDA model to thematically define the components of ideological with political related content. The research results show that this method has relatively high accuracy and efficiency and this intelligent the cognition Ideological with political integration platform also has high stability. Mao et al. [22] believe that the cognition Ideological with political is an indispensable part of the curriculum for college students, which can cultivate college students’ ideological values and positive attitudes towards life. It uses the new subject education theory to study the teaching mode of the cognition Ideological with political. It believes that the combination of collaborative education mode and ideological with political teaching can promote the innovation of the cognition Ideological with political. It establishes a synergistic effect model to solve the problems of value differences and lack of collective consciousness in the process of university teaching. There is also a feedback mechanism in this method, and the research results show that this synergistic effect model has certain universality in the cognition Ideological with political of college students in China. This method can also help college students better understand the content of the cognition Ideological with political. Lu [23] believes that the cognition Ideological with political is a carrier of teaching ideas and politics for the education of students. In order to better teach the core content and values of the cognition Ideological with political, it studies a research-based teaching model. And it uses this teaching mode to explore the theoretical basis and practical process of ideological with political teaching. It also analyzes the opportunities for mental health situation and the education of ideological with political and the challenges it faces. At the same time, it also illustrates the use and advantages of Internet technology in the process of mental health situation and ideological with political teaching. The results of the discussion show that Internet technology is helpful to students’ ideological with political teaching. Hang [24] has discovered the importance of the cognition Ideological with political for college students. However, it also found that the traditional blackboard and PPT the cognition Ideological with political model are facing the risk of being eliminated, and this teaching method can no longer meet the current ideological with political teaching model. It believes that wireless communication technology and VR methods can replace blackboard and PPT teaching methods. The immersive feeling and situation of VR technology can improve the key content of the cognition Ideological with political for college students. It analyzes the application of VR technology and wireless communication technology in university ideological with political teaching. The research results show that this method of college ideological with political teaching can change the defects of the traditional teaching mode and this method can also improve the enthusiasm and interest of college students in learning ideological with political content. He [25] mainly studies the content of ideological teaching resources sharing, and it mainly finds the problems of data interference and too long sharing time in traditional ideological with political teaching resources. It proposes an edge computing ideological with political teaching resource sharing method. This method utilizes the method of information entropy suppression, which will eliminate redundant data of ideological with political resources, which will reduce the time for resource sharing. The research results show that this method is more efficient in the content sharing of ideological with political teaching. Through the above research, it can be found that few researchers use big data to analyze the cognitive teaching of psychology and ideology in colleges and universities. This study uses big data strategies to study the relevant characteristics of psychology and ideological and political cognitive teaching, which will improve the efficiency of learning.

3. Application and Analysis of Big Data Theory in Psychological Ideological with Political Teaching in Universities

3.1. The Significance of Big Data Theory for Psychological Ideological with Political Teaching. This research mainly explores the application of big data theory in the psychological ideological with political teaching in universities. The traditional blackboard or PPT method has been difficult to meet the psychological ideological with political teaching in today's social situation. In today's social environment, the teaching mental health situation and ideological with political aspects in universities presents a multi-end and complex feature. The teaching of psychology and ideology is more complicated, and there are more psychological and ideological with political characteristics, which aggravate the psychological and ideological with political characteristics of universities. And with the development of social diversification, the content of teaching mental health situation and ideological with political aspects will be more extensive. Teaching is developing in an intelligent direction, which will increase students' interest and motivation in learning. The content of psychology and ideology and politics is a relatively subjective teaching content, unlike mathematics and physics, which are more rigorous courses. Big data theory can extract the content characteristics of psychological ideological with political teaching in universities in the form of data, and it can help students or teachers to discover more teaching content characteristics that cannot be found intuitively. The teaching content of college psychology and ideological politics can be displayed in the form of data, and big data theory can further extract and predict the characteristics of college teaching mental health situation and ideological with political aspects content, which can quantitatively analyze the teaching characteristics of college teaching mental health situation and ideological with political aspects.
3.2. Design Scheme of Big Data Theory in Psychological Ideological with Political Teaching in Universities. Through the above analysis and introduction, it can be found that the three key characteristics are the student behavior information, the content characteristics of psychological teaching, and the content characteristics of ideological with political teaching in psychology and ideology. These three characteristics are the key factors affecting the success of psychological ideological with political teaching in universities. Only by grasping these three key characteristics, it will more accurately grasp the development direction of college teaching mental health situation and ideological with political aspects. This will also more efficiently stimulate students’ interest in learning, and it will also improve students’ awareness of mental health situation content and ideological with political teaching content. Figure 1 shows the design scheme of big data theory in college teaching mental health situation and ideological with political aspects, which is an intelligent teaching design scheme. First of all, the three characteristics of psychological teaching content, ideological with political teaching content characteristics and student behavior of college teaching mental health situation, and ideological with political aspects are input into the ACNN neural network in the form of data, and the data of these three characteristics will be in the form of a matrix. The data operates through full feature extraction, convolution operations, and nonlinear feature maps. It will output content related to mental health situation and ideological with political teaching. These data will be further input into the GRU neural network, and these features will complete the extraction of temporal features. Finally, this intelligent system will map and predict the data related to psychological ideological with political teaching in universities according to the content characteristics of mental health situation and the complex relationship between the content characteristics of ideological with political teaching and student behavior. In Figure 1, the computer-aided system can display the psychological and ideological and political-related knowledge acquired by ACNN and GRU methods to students or teachers, which is also the last part of this intelligent teaching system.

3.3. The Principle and Work-Flow of GRU Algorithm. For the research on mental health situation and ideological with political teaching in universities, these characteristics will involve more time characteristics. For example, student behavior information is a relatively temporal feature. The LSTM method is a relatively common temporal feature extraction algorithm, which also memorizes historical state information. However, the LSTM algorithm has a lot of parameter calculations in the training process. The GRU method has the same functionality as the LSTM algorithm, but it involves fewer parameters in the training process. Figure 2 shows the relevant characteristics of the calculation method of the GRU method in the process of learning mental health situation and ideological with political teaching in universities. The GRU method has a simpler gate structure than the LSTM method, which reduces the process of parameter derivation calculation. This also reduces the use of computer memory, which can also reduce the learning time for psychology and ideological and political cognition teaching.

In the following, this study introduces the equations of the GRU method and the workflow of the equations, which mainly include four processes: update gate, reset gate, and loss function.

(1) Compared with the LSTM method, the GRU method improves the four-gate structure of the LSTM method into a two-gate structure, which greatly reduces the amount of parameter computation. The update gate is mainly responsible for selectively filtering historical information, and it also inputs the input data and historical selective data into the GRU structure of the next layer. Equations (1) and (2) show the calculation guidelines for the update gate

\[ g_t = \sigma(W_r[h_{t-1}, x_t] + b_r), \quad (1) \]

\[ \tilde{h}_t = \tanh \left( W_h[g, h_{t-1}, x_t] + b_h \right), \quad (2) \]

(2) Equations (3) and (4) show the calculation criterion of the GRU reset gate, which is similar to the refresh gate and output gate in LSTM. It can output historical status data as well as current status data.

\[ g_z = \sigma(W_z[h_{t-1}, x_t] + b_z), \quad (3) \]

\[ h_t = (1 - g_z)h_{t-1} + g_z\tilde{h}_t. \quad (4) \]

(3) Every deep learning algorithm contains weights and biases. The nonlinear learning algorithm contains weights and biases. The nonlinear learning algorithm contains weights and biases.

\[ \Delta w_{ji} = -\eta \frac{\partial E}{\partial w_{ji}}, \quad (5) \]

\[ \Delta u_{ij} = -\eta \frac{\partial E}{\partial u_{ij}}, \quad (6) \]

(4) The loss function is also an important part of the structure of the GRU algorithm. It will be responsible for calculating the error calculation between the predicted value and the actual value of the eigenvalues of ideological with political and psychological education. The learning process of GRU is based on
the error of the loss function. Equation (7) shows how the loss function is calculated. In this study, the mean square error loss function was chosen. The mean square error loss function is a commonly used loss function, which has relatively high stability. It is also applicable to the data types of psychology and ideological and political cognition teaching.

\[
E = \frac{1}{2} \sum_{k=1}^{m} [d_k - f(\text{net}_{w_k})]^2 = \frac{1}{2} \sum_{k=1}^{m} [d_k - f\left(\sum_{j=0}^{n} \omega_{jk}y_j\right)]^2
\]

Equation (8) shows the calculation equation of the output feature of the GRU algorithm, which is also a calculation method unique to ACNN:

\[
S_{\text{out}} = \left[\frac{S_{\text{in}} + 2\text{pading} - S_{\text{kernel}}}{\text{step}}\right] + 1. \tag{8}
\]

3.4. The Role of the ACNN Method for Teaching Mental Health Situation and Ideological with Political Aspects. ACNN has specific and obvious advantages in extracting the characteristics of research objects. It can not only extract the characteristics of research objects, but also reduce the number of parameters. Compared with the CNN method, it has a higher advantage in running cost. The characteristics of college teaching mental health situation and ideological with political aspects will have a lot of parameters. If the CNN method is used, it will consume high costs and computing resources. Figure 3 shows the calculation process and principle of ACNN. Compared with the CNN method, the ACNN method has less parameter computation, which is also the biggest advantage of the ACNN algorithm. There will be a huge amount of data in the teaching characteristics of psychology and ideological and political cognition. If the CNN method is used, more computing resources will be wasted.

Compared with the CNN method, the biggest change of the GRU algorithm is that the method of outputting features is different. Equation (8) shows the calculation equation of the output feature of the GRU algorithm, which is also a calculation method unique to ACNN:

\[
S_{\text{out}} = \left[\frac{S_{\text{in}} + 2\text{pading} - S_{\text{kernel}}}{\text{step}}\right] + 1. \tag{8}
\]

Equation (9) shows the computational equation for the input features of ACNN. Equation (10) shows the method of parameter adjustment of ACNN.

\[
S_{\text{in}} = (S_{\text{out}} - 1) \times \text{step} + S_{\text{kernel}} - 2\text{pading}, \tag{9}
\]

\[
V_i = V_{i-1} + S_{\text{kernel}} - 1 \times \prod_{i=1}^{i-1} \text{step}_{i-1}. \tag{10}
\]

During the training process of ACNN, it will have an activation function. Activation function is a process of
nonlinear data processing. Equation (11) shows the operation process of the activation function of the ACNN algorithm:

\[ a^i = \text{Re} \left( LU \left( z^i \right) \right) = \text{Re} \left( LU \left( W^i a^{i-1} + b^i \right) \right). \tag{11} \]

### 4. Result Analysis and Discussion

This research mainly uses big data theory to learn and map the three eigenvalues of ideological with political and psychological education in universities. This will help teachers and students to find a more suitable content and teaching methods for teaching mental health situation and ideological with political aspects. Big data theory can also find some correlations that cannot be found by artificial means about the eigenvalues of ideological with political and psychological education in universities. The traditional psychological and ideological with political teaching model only uses textbooks to teach psychological and ideological with political knowledge; it cannot show more appropriate psychological and ideological with political knowledge according to students’ interests and performance. The core of big data theory is a huge amount of data, which can discover the characteristics and correlations of research objects from the data. Data sets are also an important source of big data theory. In this study, the psychological and ideological with political related data of many universities in Shanghai were selected as the data set for this study. Shanghai has more colleges and universities compared to other provinces. Moreover, the economic development of Shanghai is relatively developed, which can specify the relevant characteristics of more types of psychology and ideological and political cognitive teaching. This expands the source of the data set.

In order to further illustrate whether the three characteristics of college teaching mental health situation and ideological with political aspects have strong temporal correlations, this study first analyzed the accuracy of the single ACNN method in predicting the three eigenvalues of ideological with political and psychological education. Figure 4 shows the prediction errors of three eigenvalues of ideological with political and psychological education using a single ACNN method. In Figure 4, the area of the green area represents the data for which the prediction error of the three characteristics of psychology and ideological and political cognition teaching is within 2%. This green area can intuitively see the distribution of most of the prediction error values.

It can be seen from Figure 4 that the prediction errors of the three psychological ideological with political characteristics are all within a reasonable range. These three kinds of errors can meet the teaching reform tasks of psychology and ideology in universities. However, the values of these three errors are also in a large range, and it is also difficult to grasp the direction of the teaching tasks of psychology and ideology. In general, the largest characteristic error of teaching mental health situation and ideological with political aspects comes from the characteristics of student behavior information, which is 3.01%. The smallest error also reaches 2.67%, which is a prediction of the content characteristics of ideological with political teaching. The relationship between student behavior characteristics and time is relatively large, which is difficult to grasp only by the ACNN method.

Through the analysis of Figure 4, it can be found that only using the ACNN method to predict the three eigenvalues of ideological with political and psychological education will have a specific higher error, but it is also a usable prediction error. This study further used the ACNN-GRU method to study the accuracy of big data methods in predicting three eigenvalues of ideological with political and psychological education. Figure 5 shows the prediction errors of three eigenvalues of ideological with political and psychological education using the ACNN-GRU method. In Figure 5, each two represents a feature of psychology and ideological with political cognition teaching, and the left one represents the predicted value of psychological and ideological and political cognition teaching using the ACNN method. The predicted values on the right representing psychological and ideological with political cognition teaching characteristics utilize the ACNN-GRU method. From Figure 5, it can be seen intuitively that the prediction errors of the three characteristics of psychology and ideology have been greatly reduced. For the characteristics of student behavior, the prediction error is reduced from 3.01% to 2.66%. For the characteristics of psychological teaching content, the prediction error is reduced from 2.78% to 1.96%. This shows that the ACNN-GRU method has higher accuracy compared with the ACNN method in predicting three characteristics of psychology and ideology.

Figures 4 and 5 show the average prediction error of the eigenvalues of ideological with political and psychological education in universities, which can only reflect the overall effect of the ACNN-GRU and ACNN methods in predicting
the eigenvalues of ideological with political and psychological education. In order to further demonstrate the prediction effect of the ACNN-GRU method on different individual characteristics, this study selected 24 groups of ideological with political teaching content characteristics for analysis. Figure 6 shows the prediction error distribution of the content characteristics of ideological with political teaching. Figure 7 shows the prediction error distribution of the content characteristics of psychological teaching. From Figure 6, it can be seen that most of the prediction errors of the 24 groups of ideological with political teaching content characteristics are within 2%, and only one group of data has an error of more than 2%. There are also some ideological with political teaching content characteristics. The prediction error of the content characteristics is within 1%. This is enough to illustrate the accuracy and reliability of the ACNN-GRU method in predicting the content of ideological with political teaching. Regardless of global accuracy or individual accuracy, the ACNN-GRU method can predict the characteristics of ideological with political teaching content.

Through the previous research, it can be found that the prediction error of the content characteristics of psychological teaching is larger than the prediction error of the content characteristics of ideological with political teaching. In this study, in order to further illustrate the effectiveness of ACNN-GRU, it still selected 24 groups of characteristics of psychological teaching content for analysis. Figure 7 shows the distribution of predicted values and actual values of psychological teaching content characteristics of college teaching mental health situation and ideological with political aspects. In Figure 7, the reason for the large differences in the data sets of psychological teaching cognitive content characteristics may be due to the relatively large fluctuations in the psychological teaching cognitive content. There are great differences in the content of psychological teaching at different times. The box plot can also intuitively see the distribution of the average and extreme values of the characteristics of the psychological teaching content. From the distribution of data values of psychological teaching content features, the ACNN-GRU method can accurately predict psychological teaching content characteristics, because the size and distribution of data values are in good agreement with the actual psychological teaching content characteristics. Although there are peaks and valleys in the data distribution of psychological teaching content characteristics, the ACNN-GRU method can still perform the task of predicting psychological teaching content characteristics well. From the perspective of the average and extreme value of the characteristics of psychological teaching content, the predicted value and the actual value of the two eigenvalues are also in good agreement. This shows that the ACNN-GRU method has high reliability in predicting the characteristics of psychological teaching content.

From Figures 4 and 5, it can be seen that the prediction error of student behavior characteristics is the largest among the three psychological and ideological with political teaching characteristics. Similarly, this study also selected 24
groups of students’ behavioral characteristics for accuracy analysis. Figure 8 shows the distribution of predicted and actual values of student behavior characteristics in teaching mental health situation and ideological with political aspects. In Figure 8, the black line represents the average value of the student behavior information feature value, which includes the average value of the predicted value and the actual value. The two ends of the black line represent the extreme values of the information characteristic of student behavior. The large differences in the data values of the student behavior characteristics may be due to the large differences in the student groups in the process of collecting the student behavior characteristic data sets. The characteristics of student behavior are similar to the characteristics of psychological teaching content, and it also has peaks and valleys. For big data theory, this distribution of peaks and valleys is more difficult to predict. However, the ACNN-GRU method can also better predict the behavioral characteristics of students in teaching mental health situation and ideological with political aspects. ACNN-GRU has already predicted the data values of student behavior characteristics, whether it is the peak value or the peak-to-valley value distribution of student behavior characteristics. This shows that the ACNN-GRU method has high reliability for predicting the characteristics of students’ behavior in psychology and ideology.

5. Conclusions

In today’s era, college students will face greater academic and employment pressure, which can easily cause the mental health situation problems. Only by maintaining a positive and optimistic attitude will you avoid mental health situation problems. Mental health situation problems can easily cause the extreme events. The cognition Ideological with political can impart a positive and optimistic attitude to life and life concepts to students. Once students have a positive and objective attitude, it can also make it easier for students to receive the cognition Ideological with political. Mental health situation education and the cognition Ideological with political are a complementary relationship. However, with the advancement of technology, traditional teaching methods may not meet the needs of teachers and students to understand psychological and ideological with political knowledge. There will be a lot of cumbersome data and knowledge points in psychology and ideological and political cognition, and traditional teaching methods may be difficult to teach according to different students. Big data technology can carry out relevant psychological and ideological and political cognition teaching according to the different situations of students.

This study uses big data theory to study three characteristics of psychological teaching content, ideological with political teaching content and student behavior in college teaching mental health situation, and ideological with political aspects. First, this study analyzes the error of the ACNN method in predicting the eigenvalues of ideological with political and psychological education. Although the prediction errors of the three characteristics can meet the teaching needs of psychology and ideology, the numerical values of these three errors are relatively large. A single ACNN method has a relatively large error in predicting the relevant characteristics of psychology and ideological and political cognition, with the largest error reaching 3.01%. This error value is not conducive to college teachers and students’ learning of psychology and ideological and political cognition. Then, this study analyzes the accuracy and efficiency of the ACNN-GRU method in predicting the eigenvalues of ideological with political and psychological education. Compared with the single ACNN method, the prediction accuracy of the ACNN-GRU method has been significantly improved for three eigenvalues of ideological with political and psychological education. The largest prediction error comes from the characteristics of students’ behavior, and this part of the error is only 2.66%. ACNN and GRU have achieved relatively good results in predicting the psychological and ideological and political situation in colleges and universities. The model after this training can be directly applied to the actual cognitive teaching of psychology and ideological and political. This enables knowledge matching based on the needs of students and teachers.
Data Availability

The experimental data used to support the findings of this study are available from the corresponding author upon request.

Conflicts of Interest

The authors declare that they have no conflicts of interest.

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