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The Teaching Case Base of Postgraduate Data Mining Course Integrating Curriculum Thought and Politics

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Abstract

This paper studies the content framework, objectives, innovations and construction arrangement of the teaching case base of graduate data mining course integrating curriculum thought and politics.The teaching case base of graduate data mining course integrating curriculum thought and politics includes three parts: case base of new data mining technology, case base of data mining algorithm and case base of data mining principle.The teaching case base of graduate data mining course integrating curriculum thought and politics is of great significance for graduate students to deeply study and master data mining.

Keywords

Data Mining; Case Base; Graduate Student.

1. Background

Curriculum thought and politics is the lifeline of all the work of the school. It will establish morality and cultivate people in the classroom. The value and deep significance of "curriculum ideological and political work" are self-evident, reflecting the spirit of the times of keeping pace with the times.

Graduate data mining course is an important course for graduate majors such as computer and software engineering.However, according to the knowledge structure and teaching characteristics of the course itself, the problems existing in the teaching process for a long time include: (1) many knowledge points, fast pace of class, large class capacity, complex and abstract content, strong theory and comprehensiveness;(2) The existing teaching resources are not well combined with the existing new technology and trend of data mining;(3) The cultivation of students' Ideological and political aspects is not considered in the course teaching.Due to the above problems, students will have unclear knowledge understanding and logical confusion in class. In addition, it is difficult to find corresponding case resources for in-depth study after class, which will eventually lead to incorrect and comprehensive grasp of the learned content and fail to achieve the ideal effect of setting up this course.

Therefore, in order for graduate students majoring in computer and software engineering to learn data mining courses more effectively and facilitate teachers' case teaching, there is an urgent need for a complete and standardized teaching case base of graduate data mining courses integrating curriculum thought and politics.

2. Content Framework

The teaching case base of postgraduate data mining course integrating curriculum thought and politics includes three parts, namely, the case base of new data mining technology, the case base of data mining algorithm and the case base of data mining principle. Each part also contains several teaching cases.As shown in Figure 1.

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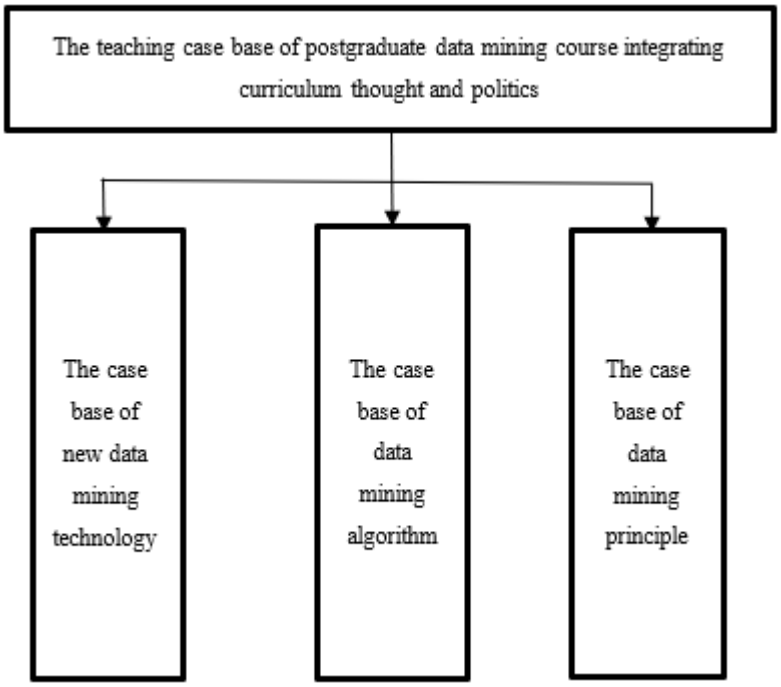

Figure 1. The teaching case base of postgraduate data mining course integrating curriculum thought and politics

3. Objectives

The traditional teaching case base does not include new technology cases of data mining, nor does it consider the curriculum thought and politics of the course, so that students do not learn the most cutting-edge data mining technology, nor improve students' Ideological and political level.The teaching case base of postgraduate data mining courses Integrating Ideological and political courses includes the case base of new data mining technology, so as to enhance students' interest in data mining courses and improve students' Ideological and political level.

Through the teaching case base of postgraduate data mining courses Integrating Ideological and political courses studied in this project, students can deeply understand data mining knowledge, stimulate students' independent initiative in learning, improve data mining technical ability and improve students' Ideological and political level.Through this case base, we can cultivate college students in the new era who not only have professional skills, but also have a high ideological and political level.

4. Innovation

The innovations of the teaching case base of postgraduate data mining course integrating curriculum thought and politics are as follows:

(1) Boldly break through the design of traditional teaching cases, and integrate the teaching cases of curriculum thought and politics and graduate data mining courses in the whole process and all-round way from the teaching objectives, teaching contents, teaching process and homework settings.

(2) The teaching case base of graduate data mining courses integrating the ideological and political courses, including the case base of new data mining technologies, not only enhances students' interest in data mining courses, but also improves students' Ideological and political level.

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5. Construction Arrangement

The construction arrangement of teaching case base of postgraduate data mining course integrating curriculum thought and politics is as follows:

(1) Preparation stage

Carry out project research and collect students' easy to mix points.Query relevant materials, sort out the knowledge structure and deeply study theoretical knowledge;

(2) Research stage

Create and improve the thinking map of the knowledge points of the teaching case base of graduate data mining course integrating the ideological and political courses, and establish the teaching case base of graduate data mining course integrating the ideological and political courses according to the thinking map;

(3) Practice summary stage

The application of graduate data mining course teaching case base integrating curriculum thought and politics.

6. Conclusion

This paper studies the content framework, objectives, innovation points and construction arrangement of the teaching case base of graduate data mining course integrating curriculum thought and politics.The teaching case base of graduate data mining course integrating curriculum thought and politics is of great significance for graduate students to deeply study and master data mining.

Through integrating the teaching case database of postgraduate data mining course of curriculum thought and politics, the theory and practice are closely combined to guide students to find, analyze and solve problems, so as to master theory, form views and improve their ability;Stimulate students' initiative in learning, but also make up for the shortage of teachers' tight class time and unable to explain comprehensively to different students;The ultimate goal is to enable students to have good learning habits, have the ability to think, analyze and deal with problems independently, and firmly master the knowledge of data mining, so as to lay a solid foundation for in-depth study and research of postgraduates majoring in computer and software engineering.

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