

# Educational Data Mining: a Case Study

Agathe MERCERON<sup>\*</sup> and Kalina YACEF<sup>\*</sup>  
*\*ESILV - Pôle Universitaire Léonard de Vinci, France*

*\*School of Information Technologies - University of Sydney, Australia,  
Agathe.Merceron@devinci.fr, kalina@it.usyd.edu.au*

**Abstract.** In this paper, we show how using data mining algorithms can help discovering pedagogically relevant knowledge contained in databases obtained from Web-based educational systems. These findings can be used both to help teachers with managing their class, understand their students' learning and reflect on their teaching and to support learner reflection and provide proactive feedback to learners.

## 1 Introduction

Web-based educational systems collect large amounts of student data, from web logs to much more semantically rich data contained in student models. Whilst a large focus of AIED research is to provide adaptation to a learner using the data stored in his/her student model, we explore ways to mining data in a more collective way: just as a human teacher can adapt to an individual student, the same teacher can also learn more about how students learn, reflect and improve his/her practice by studying a group of students.

The field of Data Mining is concerned with finding new patterns in large amounts of data. Widely used in Business, it has scarce applications to Education. Of course, Data Mining can be applied to the business of education, for example to find out which alumni are likely to make larger donations. Here we are interested in mining student models in a pedagogical perspective. The goal of our project is to define how to make data possible to mine, to identify which data mining techniques are useful and understand how to discover and present patterns that are pedagogically interesting both for learners and teachers.

The process of tracking and mining such student data in order to enhance teaching and learning is relatively recent but there are already a number of studies trying to do so and researchers are starting to merge their ideas [1]. The usefulness of mining such data is promising but still needs to be proven and stereotypical analysis to be streamlined. Some researchers already try and set up some guidelines for ensuring that ITS data can be usefully minable [2] out of their experience of mining data in the project LISTEN [3].

Some directions start to emerge. Simple statistics, queries or visualisation algorithms are useful to give to teachers/tutors an overall view of how a class is doing. For example, the authors in [4] use pedagogical scenarios to control interactive learning objects. Records are used to build charts that show exactly where each student is in the learning sequence, thus offering to the tutor distant monitoring. Similarly in [5], students' answers to exercises are recorded. Simple queries allow to show charts to teachers/tutors of all students with the exercises they have attempted, they have successfully solved, making tutors aware of how students progress through the course. More sophisticated information visualisation techniques are used in [6] to externalise student data and generate pictorial representations for course instructors to explore. Using features extracted from log data and marks obtained in the final exam, some researchers use classification techniques to predict student performance fairly accurately [7]. These allow tutors to identify students at risk and provide advice ahead of the final exam. When student mistakes are recorded, association rules algorithms can be used to find mistakes often associated together [8]. Combined with a genetic algorithm, concepts mastered together can be identified using student scores[9].

# Data Mining Case Studies

**A Gutmann**



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## **Table of Contents Data Mining Case Studies**

1. Understanding the eBook Data Mining Case Studies
  - The Rise of Digital Reading Data Mining Case Studies
  - Advantages of eBooks Over Traditional Books
2. Identifying Data Mining Case Studies
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Data Mining Case Studies
  - User-Friendly Interface
4. Exploring eBook Recommendations from Data Mining Case Studies
  - Personalized Recommendations
  - Data Mining Case Studies User Reviews and Ratings
  - Data Mining Case Studies and Bestseller Lists
5. Accessing Data Mining Case Studies Free and Paid eBooks

- Data Mining Case Studies Public Domain eBooks
  - Data Mining Case Studies eBook Subscription Services
  - Data Mining Case Studies Budget-Friendly Options
6. Navigating Data Mining Case Studies eBook Formats
    - ePub, PDF, MOBI, and More
    - Data Mining Case Studies Compatibility with Devices
    - Data Mining Case Studies Enhanced eBook Features
  7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of Data Mining Case Studies
    - Highlighting and Note-Taking Data Mining Case Studies
    - Interactive Elements Data Mining Case Studies
  8. Staying Engaged with Data Mining Case Studies
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers Data Mining Case Studies
  9. Balancing eBooks and Physical Books Data Mining Case Studies
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection Data Mining Case Studies
  10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
  11. Cultivating a Reading Routine Data Mining Case Studies
    - Setting Reading Goals Data Mining Case Studies
    - Carving Out Dedicated Reading Time
  12. Sourcing Reliable Information of Data Mining Case Studies
    - Fact-Checking eBook Content of Data Mining Case Studies
    - Distinguishing Credible Sources
  13. Promoting Lifelong Learning
    - Utilizing eBooks for Skill Development

- Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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