

Educational Data Mining: a Case Study

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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

Biju Issac, Nauman Israr



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Data Mining Case Studies Domingo,2008-06-02

INTRODUCTION TO DATA MINING WITH CASE STUDIES

GUPTA, G.K.,2014-06-28 The field of data mining provides techniques for automated discovery of valuable information from the accumulated data of computerized operations of enterprises This book offers a clear and comprehensive introduction to both data mining theory and practice It is written primarily as a textbook for the students of computer science management computer applications and information technology The book ensures that the students learn the major data mining techniques even if they do not have a strong mathematical background The techniques include data pre processing association rule mining supervised classification cluster analysis web data mining search engine query mining data warehousing and OLAP To enhance the understanding of the concepts introduced and to show how the techniques described in the book are used in practice each chapter is followed by one or two case studies that have been published in scholarly journals Most case studies deal with real business problems for example marketing e commerce CRM Studying the case studies provides the reader with a greater insight into the data mining techniques The book also provides many examples review questions multiple choice questions chapter end exercises and a good list of references and Web resources especially those which are easy to understand and useful for students A number of class projects have also been included **R and**

Data Mining Yanchang Zhao,2012-12-31 R and Data Mining introduces researchers post graduate students and analysts to data mining using R a free software environment for statistical computing and graphics The book provides practical methods for using R in applications from academia to industry to extract knowledge from vast amounts of data Readers will find this book a valuable guide to the use of R in tasks such as classification and prediction clustering outlier detection association rules sequence analysis text mining social network analysis sentiment analysis and more Data mining techniques are growing in popularity in a broad range of areas from banking to insurance retail telecom medicine research and government This book focuses on the modeling phase of the data mining process also addressing data exploration and model evaluation With three in depth case studies a quick reference guide bibliography and links to a wealth of online resources R and Data Mining is a valuable practical guide to a powerful method of analysis Presents an introduction into using R for data mining applications covering most popular data mining techniques Provides code examples and data so that readers can easily learn the techniques Features case studies in real world applications to help readers apply the techniques in their work

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Introduction to Data Mining and Its Applications S. Sumathi,S.N. Sivanandam,2006-09-26 This book explores the concepts of data mining and data warehousing a promising and flourishing frontier in data base systems and new data base applications and is also designed to give a broad yet in depth overview of the field of data mining Data mining is a multidisciplinary field drawing work from areas including database technology AI machine learning NN statistics pattern recognition knowledge based systems knowledge acquisition information retrieval high performance computing and data visualization This book is intended for a wide audience of readers who are not necessarily experts in data warehousing and data mining but are interested in receiving a general introduction to these areas and their many practical applications Since data mining technology has become a hot topic not only among academic students but also for decision makers it provides valuable hidden business and scientific intelligence from a large amount of historical data It is also written for technical managers and executives as well as for technologists interested in learning about data mining

Data Mining and Medical Knowledge Management: Cases and Applications Berka, Petr,Rauch, Jan,Zighed, Djamel Abdelkader,2009-02-28 The healthcare industry produces a constant flow of data creating a need for deep analysis of databases through data mining tools and techniques resulting in expanded medical research diagnosis and treatment Data Mining and Medical Knowledge Management Cases and Applications presents case studies on applications of various modern data mining methods in several important areas of medicine covering classical data mining methods elaborated approaches related to mining in electroencephalogram and electrocardiogram data and methods related to mining in genetic data A premier resource for those involved in data mining and medical knowledge management this book tackles ethical issues related to cost sensitive learning in medicine and produces theoretical contributions concerning general problems of data information knowledge and ontologies

Specification Case Studies in RAISE Hung Dang Van,2002-02-08 This volume presents twelve case studies that use RAISE Rigorous Approach to Industrial Software Engineering to construct analyse develop and apply formal

specifications The case studies cover a wide range of application areas including government finance case based reasoning multi language text processing object oriented design patterns component based software design and natural resource management By illustrating the variety of uses of formal specifications the case studies also raise questions about the creation purpose and scope of formal models before they are built Additional resources and complete specifications for all of the case studies and the RAISE tools used to process them are available on the World Wide Web This book will be of particular interest to software engineers especially those responsible for the initial stages of requirements engineering and software architecture and design It will also be of interest to academics and students on advanced formal methods courses

DATABASE SYSTEMS WITH CASE STUDIES BERNARD, MARGARET, BACHU, ESHWAR, 2015-10-04 Database Systems with Case Studies covers exactly what students need to know in an introductory database system course This book focuses on database design and exposes students to a variety of approaches for getting the Data Model right The book addresses issues related to database performance Query Processing and Transaction Management for multi user environments This book also introduces non relational XML format to students The approach taken to teach the topics is through introduction of many real world enterprise database case studies and practice problems The case studies are selected based on modern application areas keeping the student's interest in mind The book provides hands on experience of database design issues with several ready made lab exercises For grading students understanding of the topics several challenging assignments are also provided at the end of chapters Multiple choice self tests are provided for formative assessment throughout the book The book is suitable for the undergraduate students of Computer Science and Engineering Information Technology and students of Computer Applications BCA MCA Key features All the topics are illustrated with practical examples Topics like Entity Relationship diagram ERD are discussed with Diagrams and Visual Aids Students are exposed to the various approaches for determining data requirements Structured Query Language SQL examples are worked with scripts results and solutions Exclusive lab exercises on SQL can be used as assignments

Case Studies in Intelligent Computing Biju Issac, Nauman Israr, 2014-08-29 Although the field of intelligent systems has grown rapidly in recent years there has been a need for a book that supplies a timely and accessible understanding of this important technology Filling this need Case Studies in Intelligent Computing Achievements and Trends provides an up to date introduction to intelligent systems This edited book

Cases on Institutional Research Systems Burley, Hansel, 2011-10-31 Institutional research IR is a growing applied and interdisciplinary area that attracts people from a variety of fields including computer programmers statisticians and administrators and faculty from every discipline to work in archiving analyzing and reporting on all aspects of higher education information systems Cases on Institutional Research Systems is a reference book for institutional research appealing to novice and expert IR professionals and the administrators and policymakers that rely on their data By presenting a variety of institutional perspectives the book depicts the challenges and solutions to those in higher education

administration and state federal and even international accreditation Data Mining with SQL Server 2005 ZhaoHui Tang, Jamie MacLennan, 2005-10-03 Your in depth guide to using the new Microsoft data mining standard to solve today's business problems Concealed inside your data warehouse and data marts is a wealth of valuable information just waiting to be discovered All you need are the right tools to extract that information and put it to use Serving as your expert guide this book shows you how to create and implement data mining applications that will find the hidden patterns from your historical datasets The authors explore the core concepts of data mining as well as the latest trends They then reveal the best practices in the field utilizing the innovative features of SQL Server 2005 so that you can begin building your own successful data mining projects You'll learn The principal concepts of data mining How to work with the data mining algorithms included in SQL Server data mining How to use DMX the data mining query language The XML for Analysis API The architecture of the SQL Server 2005 data mining component How to extend the SQL Server 2005 data mining platform by plugging in your own algorithms How to implement a data mining project using SQL Server Integration Services How to mine an OLAP cube How to build an online retail site with cross selling features How to access SQL Server 2005 data mining features programmatically **Data Mining with Python** Di Wu (Computer science teacher), 2024 This book focuses on the hands on approach to learning Data Mining It showcases how to use Python Packages to fulfill the Data Mining pipeline which is to collect integrate manipulate clean process organize and analyze data for knowledge *Knowledge Organization and Classification in International Information Retrieval* Nancy Williamson, Clare Beghtol, 2013-05-13 Learn step by step how to develop knowledge based products for international use Knowledge Organization and Classification in International Information Retrieval examines current efforts to deal with the increasing globalization of information and knowledge International authors walk you through the theoretical foundations and conceptual elements behind knowledge management addressing areas such as the Internet multinational resources translations and information languages The tools techniques and case studies provided in this book will be invaluable to anyone interested in bridging the international information retrieval language gap This book is divided into four sections that address major themes for internationalized information and knowledge General Bibliographic Systems discusses how bibliographic classification systems can be adapted for specific subjects the problems with addressing different language expressions and the future of these systems Information Organization in Knowledge Resources explores knowledge organization and classification focusing mainly on libraries and on the Internet Linguistics Terminology and Natural Language Processing analyzes the latest developments in language processing and the design of information retrieval tools and resources Knowledge in the World and the World of Knowledge addresses the ontological foundations of knowledge organization and classification and knowledge management in organizations from different cultures With this book you'll gain a better understanding about the international efforts to globalize the Dewey Decimal Classification the Library of Congress Classification the Universal Decimal Classification

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have been developed and applied in practice More specifically it consists of an editorial an introductory chapter and six chapters as below Use of Multi attribute Decision Making for Combining Audio Lingual and Visual Facial Modalities in Emotion Recognition Cooperative Learning assisted by Automatic Classification within Social Networking Services Improving Peer to Peer Communication in e Learning by Development of an Advanced Messaging System Fuzzy based Digital Video Stabilization in Static Scenes Development of Architecture Information Archive and Multimedia Formats for Digital e Libraries Layered Ontological Image for Intelligent Interaction to extend User Capabilities on Multimedia Systems in a Folksonomy Driven Environment **Practice Research in the Human Services** Michael J. Austin, Sarah

Carnochan, 2020-03-12 This book offers a practical approach to conducting practice research in the field of human services This evolving form of applied research seeks to understand practice in the context of the relationships between service providers and service users between service providers and their managers between agency based service providers and community advocacy and support groups and between agency managers and policy makers Practice research represents a form of evidence informed practice that involves a wide array of research designs and methods in contrast to the narrower emphasis on experimental designs that characterizes evidence based practice The emerging principles and practices associated with practice research highlight 1 including multiple diverse stakeholders 2 maximizing and negotiating participation 3 promoting practitioner engagement in all phases of the research process and 4 developing new identities for participants as research minded practitioners and practice minded researchers The book is designed for researchers practitioners service users and students and focuses on concrete experiences that illustrate the processes and activities involved in a specific locally negotiated model of practice research The book describes multiple practice research studies across an array of fields of practice in the human services focusing on the research questions designs roles and relationships that have been developed in the context of a university agency practice research partnership These descriptions and stories are used to construct a comprehensive detailed picture of the research process Based upon these descriptions the book synthesizes a set of broader principles and guidelines for practice researchers

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