

Third Edition



DATA MINING

Concepts and Techniques

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Data Mining The Textbook

**Trevor Hastie, Robert
Tibshirani, Jerome H. Friedman**



Data Mining The Textbook:

Data Mining Charu C. Aggarwal, 2015-04-13 This textbook explores the different aspects of data mining from the fundamentals to the complex data types and their applications capturing the wide diversity of problem domains for data mining issues. It goes beyond the traditional focus on data mining problems to introduce advanced data types such as text, time series, discrete sequences, spatial data, graph data, and social networks. Until now, no single book has addressed all these topics in a comprehensive and integrated way. The chapters of this book fall into one of three categories: Fundamental chapters, Data mining, and Outlier analysis. Data mining has four main problems which correspond to clustering, classification, association, pattern mining, and outlier analysis. These chapters comprehensively discuss a wide variety of methods for these problems. Domain chapters: These chapters discuss the specific methods used for different domains of data such as text, data, time series, data, sequence, data, graph, data, and spatial data. Application chapters: These chapters study important applications such as stream mining, Web mining, ranking, recommendations, social networks, and privacy preservation. The domain chapters also have an applied flavor. Appropriate for both introductory and advanced data mining courses, Data Mining The Textbook balances mathematical details and intuition. It contains the necessary mathematical details for professors and researchers but it is presented in a simple and intuitive style to improve accessibility for students and industrial practitioners including those with a limited mathematical background. Numerous illustrations, examples, and exercises are included with an emphasis on semantically interpretable examples. Praise for Data Mining The Textbook: As I read through this book, I have already decided to use it in my classes. This is a book written by an outstanding researcher who has made fundamental contributions to data mining in a way that is both accessible and up to date. The book is complete with theory and practical use cases. It is a must-have for students and professors alike. Qiang Yang, Chair of Computer Science and Engineering at Hong Kong University of Science and Technology. This is the most amazing and comprehensive text book on data mining. It covers not only the fundamental problems such as clustering, classification, outliers, and frequent patterns and different data types including text, time series, sequences, spatial data, and graphs but also various applications such as recommenders, Web, social network, and privacy. It is a great book for graduate students and researchers as well as practitioners. Philip S. Yu, UIC Distinguished Professor and Wexler Chair in Information Technology at University of Illinois at Chicago. Data Mining Charu C. Aggarwal, 2015 This textbook explores the different aspects of data mining from the fundamentals to the complex data types and their applications capturing the wide diversity of problem domains for data mining issues. It goes beyond the traditional focus on data mining problems to introduce advanced data types such as text, time series, discrete sequences, spatial data, graph data, and social networks. Until now, no single book has addressed all these topics in a comprehensive and integrated way. The chapters of this book fall into one of three categories: Fundamental chapters, Data mining, and Outlier analysis. Data mining has four main problems which correspond to clustering, classification, association, pattern mining, and outlier analysis. These chapters comprehensively

discuss a wide variety of methods for these problems Domain chapters These chapters discuss the specific methods used for different domains of data such as text data time series data sequence data graph data and spatial data Application chapters These chapters study important applications such as stream mining Web mining ranking recommendations social networks and privacy preservation The domain chapters also have an applied flavor Appropriate for both introductory and advanced data mining courses Data Mining The Textbook balances mathematical details and intuition It contains the necessary mathematical details for professors and researchers but it is presented in a simple and intuitive style to improve accessibility for students and industrial practitioners including those with a limited mathematical background Numerous illustrations examples and exercises are included with an emphasis on semantically interpretable examples Praise for Data Mining The Textbook As I read through this book I have already decided to use it in my classes This is a book written by an outstanding researcher who has made fundamental contributions to data mining in a way that is both accessible and up to date The book is complete with theory and practical use cases It s a must have for students and professors alike Qiang Yang Chair of Computer Science and Engineering at Hong Kong University of Science and Technology This is the most amazing and comprehensive text book on data mining It covers not only the fundamental problems such as clustering classification outliers and frequent patterns and different data types including text time series sequences spatial data and graphs but also various applications such as recommenders Web social network and privacy It is a great book for graduate students and researchers as well as practitioners Philip S Yu UIC Distinguished Professor and Wexler Chair in Information Technology at University of Illinois at Chicago [Introduction to Data Mining](#) Pang-Ning Tan,2016 **Textbook of Machine Learning and Data Mining** Hiroshi Mamitsuka,2018-09-12 Data driven approaches particularly machine learning and data mining are the main driving force of the current artificial intelligence technology This book covers a wide variety of methods in machine learning and data mining dividing them from a viewpoint of data types which begin with rather simple vectors and end by graphs and also combination of different data types This book describes standard techniques of machine learning and data mining for each data type especially focusing on the relevance and difference among them Also after explaining a series of machine learning methods for seven different data types this book has a chapter for standard validation methods on empirical results obtained by applying machine learning methods to data This book can be used for a variety of objectives including an introductory textbook of studying machine learning and a first step book to start machine learning research etc

Machine Learning for Text Charu C. Aggarwal,2018-03-19 Text analytics is a field that lies on the interface of information retrieval machine learning and natural language processing and this textbook carefully covers a coherently organized framework drawn from these intersecting topics The chapters of this textbook is organized into three categories Basic algorithms Chapters 1 through 7 discuss the classical algorithms for machine learning from text such as preprocessing similarity computation topic modeling matrix factorization clustering classification regression and ensemble analysis Domain

sensitive mining Chapters 8 and 9 discuss the learning methods from text when combined with different domains such as multimedia and the Web The problem of information retrieval and Web search is also discussed in the context of its relationship with ranking and machine learning methods Sequence centric mining Chapters 10 through 14 discuss various sequence centric and natural language applications such as feature engineering neural language models deep learning text summarization information extraction opinion mining text segmentation and event detection This textbook covers machine learning topics for text in detail Since the coverage is extensive multiple courses can be offered from the same book depending on course level Even though the presentation is text centric Chapters 3 to 7 cover machine learning algorithms that are often used in domains beyond text data Therefore the book can be used to offer courses not just in text analytics but also from the broader perspective of machine learning with text as a backdrop This textbook targets graduate students in computer science as well as researchers professors and industrial practitioners working in these related fields This textbook is accompanied with a solution manual for classroom teaching

Introduction to Data Mining and Analytics Kris Jamsa, 2020-02-03 Data Mining and Analytics provides a broad and interactive overview of a rapidly growing field The exponentially increasing rate at which data is generated creates a corresponding need for professionals who can effectively handle its storage analysis and translation

The Elements of Statistical Learning Trevor Hastie, Robert Tibshirani, Jerome H. Friedman, 2001 This book describes the important ideas in a common conceptual framework While the approach is statistical the emphasis is on concepts rather than mathematics Many examples are given with a liberal use of color graphics It should be a valuable resource for statisticians and anyone interested in data mining in science or industry

Text Data Mining Chengqing Zong, Rui Xia, Jiajun Zhang, 2021-05-22 This book discusses various aspects of text data mining Unlike other books that focus on machine learning or databases it approaches text data mining from a natural language processing NLP perspective The book offers a detailed introduction to the fundamental theories and methods of text data mining ranging from pre processing for both Chinese and English texts text representation and feature selection to text classification and text clustering It also presents the predominant applications of text data mining for example topic modeling sentiment analysis and opinion mining topic detection and tracking information extraction and automatic text summarization Bringing all the related concepts and algorithms together it offers a comprehensive authoritative and coherent overview Written by three leading experts it is valuable both as a textbook and as a reference resource for students researchers and practitioners interested in text data mining It can also be used for classes on text data mining or NLP

Data Mining Algorithms Rajan Chattamvelli, 2011 A textbook for postgraduate students and industry professionals

DATA MINING AND ANALYSIS, 2017

Data Mining Herbert Jones, 2018-09-10 Do you want to learn about data mining but don't feel like reading a boring textbook This data mining book could be the answer you're looking for Have you ever asked yourself how companies can provide you with a personalized data that is tailored just for you or how Facebook displays feeds and stories related to your

search history Well data mining is the answer to both these questions This book Data Mining The Data Mining Guide for Beginners Including Applications for Business Data Mining Techniques Concepts and More will help you understand the basic concepts in data mining as well as its applications It will dwell mostly on mining methods required in the processing as well as decision making There is no question that data mining has continued to grow and create value in many businesses The ability to identify hidden knowledge and patterns in the numbers and texts generated daily provides analysts with room to understand the behavior of users Through the development of models to identify patterns and discover new intelligence it is now possible to change the business paradigm This beginner s guide will help you understand the different techniques that you can apply in data mining It will help you develop the right foundation and skills important to master data mining Inside you will learn the following Model creation How to prepare your data How to clean your data Data Mining Similarity and distances of data The effect of data distribution Association pattern mining What is cluster analysis What is an outlier in data mining How to deal with outliers in data mining Methods of identifying outliers in data Applications of data mining in the business industry So if you are serious about becoming an expert in data mining start with this book by clicking add to cart

Data Mining and Data Warehousing Parteek Bhatia,2019-06-27 Written in lucid language this valuable textbook brings together fundamental concepts of data mining and data warehousing in a single volume Important topics including information theory decision tree Na ve Bayes classifier distance metrics partitioning clustering associate mining data marts and operational data store are discussed comprehensively The textbook is written to cater to the needs of undergraduate students of computer science engineering and information technology for a course on data mining and data warehousing The text simplifies the understanding of the concepts through exercises and practical examples Chapters such as classification associate mining and cluster analysis are discussed in detail with their practical implementation using Weka and R language data mining tools Advanced topics including big data analytics relational data models and NoSQL are discussed in detail Pedagogical features including unsolved problems and multiple choice questions are interspersed throughout the book for better understanding *Data Science for Business* Foster Provost,Tom Fawcett,2013-07-27 Annotation This broad deep but not too technical guide introduces you to the fundamental principles of data science and walks you through the data analytic thinking necessary for extracting useful knowledge and business value from the data you collect By learning data science principles you will understand the many data mining techniques in use today More importantly these principles underpin the processes and strategies necessary to solve business problems through data mining techniques

Data Mining for Business Analytics Galit Shmueli,Peter C. Bruce,Mia L. Stephens,Nitin R. Patel,2016-05-11 Data Mining for Business Analytics Concepts Techniques and Applications with JMP Pro presents an applied and interactive approach to data mining Featuring hands on applications with JMP Pro a statistical package from the SAS Institute the book uses engaging real world examples to build a theoretical and practical understanding of key data mining methods especially predictive models for

classification and prediction Topics include data visualization dimension reduction techniques clustering linear and logistic regression classification and regression trees discriminant analysis naive Bayes neural networks uplift modeling ensemble models and time series forecasting Data Mining for Business Analytics Concepts Techniques and Applications with JMP Pro also includes Detailed summaries that supply an outline of key topics at the beginning of each chapter End of chapter examples and exercises that allow readers to expand their comprehension of the presented material Data rich case studies to illustrate various applications of data mining techniques A companion website with over two dozen data sets exercises and case study solutions and slides for instructors www.dataminingbook.com Data Mining for Business Analytics Concepts Techniques and Applications with JMP Pro is an excellent textbook for advanced undergraduate and graduate level courses on data mining predictive analytics and business analytics The book is also a one of a kind resource for data scientists analysts researchers and practitioners working with analytics in the fields of management finance marketing information technology healthcare education and any other data rich field

Introduction to Business Data Mining David Louis Olson,2007 **Principles of Data Mining** Max Bramer,2007-03-28 This book explains the principal techniques of data mining for classification generation of association rules and clustering It is written for readers without a strong background in mathematics or statistics and focuses on detailed examples and explanations of the algorithms given This will benefit readers of all levels from those who use data mining via commercial packages right through to academic researchers The book aims to help the general reader develop the necessary understanding to use commercial data mining packages and to enable advanced readers to understand or contribute to future technical advances Includes exercises and glossary **DATA MINING** K. P. SOMAN,SHYAM DIWAKAR,V. AJAY,2006-01-01 Data Mining is an emerging technology that has made its way into science engineering commerce and industry as many existing inference methods are obsolete for dealing with massive datasets that get accumulated in data warehouses This comprehensive and up to date text aims at providing the reader with sufficient information about data mining methods and algorithms so that they can make use of these methods for solving real world problems The authors have taken care to include most of the widely used methods in data mining with simple examples so as to make the text ideal for classroom learning To make the theory more comprehensible to the students many illustrations have been used and this in turn explains how certain parameters of interest change as the algorithm proceeds Designed as a textbook for the undergraduate and postgraduate students of computer science information technology and master of computer applications the book can also be used for MBA courses in Data Mining in Business Business Intelligence Marketing Research and Health Care Management Students of Bioinformatics will also find the text extremely useful CD ROM INCLUDE The accompanying CD contains Large collection of datasets Animation on how to use WEKA and ExcelMiner to do data mining *Data mining and analysis* Mohammed J. Zaki,2017 **Data mining. Textbook** Vadim Shmal,Pavel Minakov,Sergey Pavlov,2023-01-11 Sergey Pavlov MasterPLEKHANOV RUSSIAN UNIVERSITY OF ECONOMICSPavel

Minakov Ph D Associate ProfessorRUSSIAN UNIVERSITY OF TRANSPORT MIIT Vadim Shmal Ph D Associate ProfessorRUSSIAN UNIVERSITY OF TRANSPORT MIIT Data Mining and Business Analytics with R Johannes

Ledolter,2013-05-28 Collecting analyzing and extracting valuable information from a large amount of data requires easily accessible robust computational and analytical tools Data Mining and Business Analytics with R utilizes the open source software R for the analysis exploration and simplification of large high dimensional data sets As a result readers are provided with the needed guidance to model and interpret complicated data and become adept at building powerful models for prediction and classification Highlighting both underlying concepts and practical computational skills Data Mining and Business Analytics with R begins with coverage of standard linear regression and the importance of parsimony in statistical modeling The book includes important topics such as penalty based variable selection LASSO logistic regression regression and classification trees clustering principal components and partial least squares and the analysis of text and network data In addition the book presents A thorough discussion and extensive demonstration of the theory behind the most useful data mining tools Illustrations of how to use the outlined concepts in real world situations Readily available additional data sets and related R code allowing readers to apply their own analyses to the discussed materials Numerous exercises to help readers with computing skills and deepen their understanding of the material Data Mining and Business Analytics with R is an excellent graduate level textbook for courses on data mining and business analytics The book is also a valuable reference for practitioners who collect and analyze data in the fields of finance operations management marketing and the information sciences

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