Third Edition

DATA MINING
Concepts and Techniques

Jiawei Han | Micheline Kamber | Jian Pei

Data Mining The Textbook

Rajan Chattamvelli

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 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 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 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 indomains 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 <u>Introduction to Data Mining and Analytics</u> 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 <u>The Elements of Statistical Learning</u> 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

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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

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Table of Contents Data Mining The Textbook

1. Understanding the eBook Data Mining The Textbook
    - The Rise of Digital Reading Data Mining The Textbook
    - Advantages of eBooks Over Traditional Books
2. Identifying Data Mining The Textbook
    - 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 The Textbook
    - User-Friendly Interface
4. Exploring eBook Recommendations from Data Mining The Textbook
    - Personalized Recommendations

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