

Third Edition



DATA MINING

Concepts and Techniques

MK
MORDAN KAUFMAN

Jiawei Han | Micheline Kamber | Jian Pei

Data Mining The Textbook

Charu C. Aggarwal



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, Domain chapters, and Application chapters. 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 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: Concepts and Techniques](#) Jiawei Han, Micheline Kamber, Jian Pei, 2011-06-09 *Data Mining Concepts and Techniques* provides the concepts and techniques in processing gathered data or information which will be used in various applications. Specifically, it explains data mining and the tools used in discovering knowledge from the collected data. This book is referred to as the knowledge discovery from data (KDD). It focuses on the feasibility, usefulness, effectiveness, and scalability of techniques of large data sets. After describing data mining, this edition explains the methods of knowing preprocessing, processing, and warehousing data. It then presents information about data warehouses, online analytical processing (OLAP), and data cube technology. Then the

methods involved in mining frequent patterns associations and correlations for large data sets are described The book details the methods for data classification and introduces the concepts and methods for data clustering The remaining chapters discuss the outlier detection and the trends applications and research frontiers in data mining This book is intended for Computer Science students application developers business professionals and researchers who seek information on data mining Presents dozens of algorithms and implementation examples all in pseudo code and suitable for use in real world large scale data mining projects Addresses advanced topics such as mining object relational databases spatial databases multimedia databases time series databases text databases the World Wide Web and applications in several fields Provides a comprehensive practical look at the concepts and techniques you need to get the most out of your data *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 *Data Mining* Jiawei Han,Jian Pei,Hanghang Tong,2022-07-02

Data Mining Concepts and Techniques Fourth Edition introduces concepts principles and methods for mining patterns knowledge and models from various kinds of data for diverse applications Specifically it delves into the processes for uncovering patterns and knowledge from massive collections of data known as knowledge discovery from data or KDD It focuses on the feasibility usefulness effectiveness and scalability of data mining techniques for large data sets After an introduction to the concept of data mining the authors explain the methods for preprocessing characterizing and warehousing data They then partition the data mining methods into several major tasks introducing concepts and methods for mining frequent patterns associations and correlations for large data sets data classification and model construction cluster analysis and outlier detection Concepts and methods for deep learning are systematically introduced as one chapter Finally the book covers the trends applications and research frontiers in data mining Presents a comprehensive new chapter on deep learning including improving training of deep learning models convolutional neural networks recurrent neural networks and graph neural networks Addresses advanced topics in one dedicated chapter data mining trends and research frontiers including mining rich data types text spatiotemporal data and graph networks data mining applications such as sentiment analysis truth discovery and information propagation data mining methodologie and systems and data mining and society Provides a comprehensive practical look at the concepts and techniques needed to get the most out of your data Visit the author hosted companion site <https://hanj.cs.illinois.edu/bk4> for downloadable lecture slides and errata 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 **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 Krzysztof J. Cios, Witold Pedrycz, Roman W. Swiniarski, Lukasz Andrzej Kurgan, 2007-10-05 If you torture the data long enough Nature will confess said 1991 Nobel winning economist Ronald Coase The statement is still true However achieving this lofty goal is not easy First long enough may in practice be too long in many applications and thus unacceptable Second to get confession from large data sets one needs to use state of the art torturing tools Third Nature is very stubborn not yielding easily or unwilling to reveal its secrets at all Fortunately while being aware of the above facts the reader a data miner will find several efficient data mining tools described in this excellent book The book discusses various issues connecting the whole spectrum of approaches methods techniques and algorithms falling under the umbrella of data mining It starts with data understanding and preprocessing then goes through a set of methods for supervised and unsupervised learning and concludes with model assessment data security and privacy issues It is this specific approach of using the knowledge discovery process that makes this book a rare one indeed and thus an indispensable addition to many other books on data mining To be more precise this is a book on knowledge discovery from data As for the data sets the easy to make statement is that there is no part of modern human activity left untouched by both the need and the desire to collect data The consequence of such a state of affairs is obvious **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 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 **Introduction to Data Mining and its Applications** S. Sumathi, S.N. Sivanandam, 2006-10-12 This book explores the concepts of data mining and data warehousing a promising and flourishing frontier in database systems and presents 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 artificial intelligence machine learning neural networks statistics pattern recognition knowledge based systems knowledge acquisition information retrieval high performance computing and data

visualization

Whispering the Techniques of Language: An Psychological Journey through **Data Mining The Textbook**

In a digitally-driven earth wherever monitors reign supreme and immediate connection drowns out the subtleties of language, the profound strategies and psychological subtleties hidden within phrases often get unheard. However, set within the pages of **Data Mining The Textbook** a fascinating literary treasure blinking with raw thoughts, lies a fantastic journey waiting to be undertaken. Written by a skilled wordsmith, this marvelous opus invites viewers on an introspective journey, softly unraveling the veiled truths and profound impact resonating within the fabric of each and every word. Within the mental depths with this poignant review, we can embark upon a sincere exploration of the book is core themes, dissect their captivating writing type, and succumb to the effective resonance it evokes strong within the recesses of readers hearts.

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