









MAKING SENSE OF DATA

A Practical Guide to Exploratory
Data Analysis and Data Mining







GLENN J. MYATT

James Fahl

Making Sense of Data I Glenn J. Myatt, Wayne P. Johnson, 2014-08-11 Praise for the First Edition a well written book on data analysis and data mining that provides an excellent foundation CHOICE This is a must read book for learning practical statistics and data analysis Computing Reviews com A proven go to guide for data analysis Making Sense of Data I A Practical Guide to Exploratory Data Analysis and Data Mining Second Edition focuses on basic data analysis approaches that are necessary to make timely and accurate decisions in a diverse range of projects Based on the authors practical experience in implementing data analysis and data mining the new edition provides clear explanations that guide readers from almost every field of study In order to facilitate the needed steps when handling a data analysis or data mining project a step by step approach aids professionals in carefully analyzing data and implementing results leading to the development of smarter business decisions The tools to summarize and interpret data in order to master data analysis are integrated throughout and the Second Edition also features Updated exercises for both manual and computer aided implementation with accompanying worked examples New appendices with coverage on the freely available TraceisTM software including tutorials using data from a variety of disciplines such as the social sciences engineering and finance New topical coverage on multiple linear regression and logistic regression to provide a range of widely used and transparent approaches Additional real world examples of data preparation to establish a practical background for making decisions from data Making Sense of Data I A Practical Guide to Exploratory Data Analysis and Data Mining Second Edition is an excellent reference for researchers and professionals who need to achieve effective decision making from data The Second Edition is also an ideal textbook for undergraduate and graduate level courses in data analysis and data mining and is appropriate for cross disciplinary courses found within computer science and engineering departments Making Sense of Data I Glenn J. Myatt, Wayne P. Johnson, 2014-07-02 Praise for the First Edition a well written book on data analysis and data mining that provides an excellent foundation CHOICE This is a must read book for learning practical statistics and data analysis Computing Reviews com A proven go to quide for data analysis Making Sense of Data I A Practical Guide to Exploratory Data Analysis and Data Mining Second Edition focuses on basic data analysis approaches that are necessary to make timely and accurate decisions in a diverse range of projects Based on the authors practical experience in implementing data analysis and data mining the new edition provides clear explanations that guide readers from almost every field of study In order to facilitate the needed steps when handling a data analysis or data mining project a step by step approach aids professionals in carefully analyzing data and implementing results leading to the development of smarter business decisions The tools to summarize and interpret data in order to master data analysis are integrated throughout and the Second Edition also features Updated exercises for both manual and computer aided implementation with accompanying worked examples New appendices with coverage on

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visualization including single variables the relationship between two or more variables groupings in data and dynamic approaches to interacting with data through graphical user interfaces Clustering outlines common approaches to clustering data sets and provides detailed explanations of methods for determining the distance between observations and procedures for clustering observations Agglomerative hierarchical clustering partitioned based clustering and fuzzy clustering are also discussed Predictive Analytics presents a discussion on how to build and assess models along with a series of predictive analytics that can be used in a variety of situations including principal component analysis multiple linear regression discriminate analysis logistic regression and Na ve Bayes Applications demonstrates the current uses of data mining across a wide range of industries and features case studies that illustrate the related applications in real world scenarios Each method is discussed within the context of a data mining process including defining the problem and deploying the results and readers are provided with guidance on when and how each method should be used The related Web site for the series www makingsenseofdata com provides a hands on data analysis and data mining experience Readers wishing to gain more practical experience will benefit from the tutorial section of the book in conjunction with the TraceisTM software which is freely available online With its comprehensive collection of advanced data mining methods coupled with tutorials for applications in a range of fields Making Sense of Data II is an indispensable book for courses on data analysis and data mining at the upper undergraduate and graduate levels It also serves as a valuable reference for researchers and professionals who are interested in learning how to accomplish effective decision making from data and understanding if data analysis and data mining methods could help their organization Practical Data Analysis Hector Cuesta, Dr. Sampath Kumar, 2016-09-30 A practical guide to obtaining transforming exploring and analyzing data using Python MongoDB and Apache Spark About This Book Learn to use various data analysis tools and algorithms to classify cluster visualize simulate and forecast your data Apply Machine Learning algorithms to different kinds of data such as social networks time series and images A hands on guide to understanding the nature of data and how to turn it into insight Who This Book Is For This book is for developers who want to implement data analysis and data driven algorithms in a practical way It is also suitable for those without a background in data analysis or data processing Basic knowledge of Python programming statistics and linear algebra is assumed What You Will Learn Acquire format and visualize your data Build an image similarity search engine Generate meaningful visualizations anyone can understand Get started with analyzing social network graphs Find out how to implement sentiment text analysis Install data analysis tools such as Pandas MongoDB and Apache Spark Get to grips with Apache Spark Implement machine learning algorithms such as classification or forecasting In Detail Beyond buzzwords like Big Data or Data Science there are a great opportunities to innovate in many businesses using data analysis to get data driven products Data analysis involves asking many questions about data in order to discover insights and generate value for a product or a service This book explains the basic data algorithms without the theoretical jargon and you

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can now at least in principle solve any problem we are faced with so long as we only have enough data Yet this is not the case Although large databases allow us to retrieve many different single pieces of information and to compute simple aggregations general patterns and regularities often go undetected Furthermore it is exactly these patterns regularities and trends that are often most valuable To avoid the danger of drowning in information but starving for knowledge the branch of research known as data analysis has emerged and a considerable number of methods and software tools have been developed However it is not these tools alone but the intelligent application of human intuition in combination with computational power of sound background knowledge with computer aided modeling and of critical reflection with convenient automatic model construction that results in successful intelligent data analysis projects Guide to Intelligent Data Analysis provides a hands on instructional approach to many basic data analysis techniques and explains how these are used to solve data analysis problems Topics and features guides the reader through the process of data analysis following the interdependent steps of project understanding data understanding data preparation modeling and deployment and monitoring equips the reader with the necessary information in order to obtain hands on experience of the topics under discussion provides a review of the basics of classical statistics that support and justify many data analysis methods and a glossary of statistical terms includes numerous examples using R and KNIME together with appendices introducing the open source software integrates illustrations and case study style examples to support pedagogical exposition This practical and systematic textbook reference for graduate and advanced undergraduate students is also essential reading for all professionals who face data analysis problems Moreover it is a book to be used following one s exploration of it Dr Michael R Berthold is Nycomed Professor of Bioinformatics and Information Mining at the University of Konstanz Germany Dr Christian Borgelt is Principal Researcher at the Intelligent Data Analysis and Graphical Models Research Unit of the European Centre for Soft Computing Spain Dr Frank H ppner is Professor of Information Systems at Ostfalia University of Applied Sciences Germany Dr Frank Klawonn is a Professor in the Department of Computer Science and Head of the Data Analysis and Pattern Recognition Laboratory at Ostfalia University of Applied Sciences Germany He is also Head of the Bioinformatics and Statistics group at the Helmholtz Centre for Infection Research Braunschweig Germany Data Analytics Arthur Zhang, 2017-03-10 The Ultimate Guide to Data Science and Analytics This practical guide is accessible for the reader who is relatively new to the field of data analytics while still remaining robust and detailed enough to function as a helpful guide to those already experienced in the field Data science is expanding in breadth and growing rapidly in importance as technology rapidly integrates ever deeper into business and our daily lives The need for a succinct and informal guide to this important field has never been greater RIGHT NOW you can get ahead of the pack This coherent guide covers everything you need to know on the subject of data science with numerous concrete examples and invites the reader to dive further into this exciting field Students from a variety of academic backgrounds including computer science business engineering statistics anyone

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knowledge This book not only provides step by step guide to data analytics but teaches you actionable steps to improve your analysis in all environments Are you ready to learn If so Data Analytics A Practical Guide To Data Analytics For Business Beginner To Expert Data Analytics Prescriptive Analytics Statistics Big Data Intelligence Master Data Data Science Data Mining by James Fahl is THE book for you It covers the most essential topics you must learn to become a master of Data Analytics What Separates This Book From The Rest What separates this book from the rest The unique way you will learn with examples and steps Many books leave you more confused than before you picked them up not this book it s clear concise and implementable We make it our goal to write this book in plain easy to understand English that anyone can understand Gone are the days of highly technical language This allows you to quickly learn topics and use your new skills immediately To aid you in learning the topics quickly and effectively this book has been designed to be the ultimate step by step quide Making sure that you re confident and clear with each topic before moving on You Will Learn The Following What is Data Analytics Why use Data Analytics The importance of Data Analytics Types of Data Analytics Explanations of Different models Collecting Data Mistakes to avoid Whether you just want to learn more about Data Analysis or already know but want a step by step guide to implement it in your life this is the book for you So don't delay it any longer Take this opportunity and invest in your self by buying this guide now You will be shocked by how fast you learn about Data Analytics Don t Delay And Scroll Practical Data Analysis Hector Cuesta, 2015-05-09 For small businesses analyzing the information Up To Buy With 1 Click contained in their data using open source technology could be game changing All you need is some basic programming and mathematical skills to do just that Overview Explore how to analyze your data in various innovative ways and turn them into insight Learn to use the D3 js visualization tool for exploratory data analysis Understand how to work with graphs and social data analysis Discover how to perform advanced query techniques and run MapReduce on MongoDB In Detail Plenty of small businesses face big amounts of data but lack the internal skills to support quantitative analysis Understanding how to harness the power of data analysis using the latest open source technology can lead them to providing better customer service the visualization of customer needs or even the ability to obtain fresh insights about the performance of previous products Practical Data Analysis is a book ideal for home and small business users who want to slice and dice the data they have on hand with minimum hassle Practical Data Analysis is a hands on guide to understanding the nature of your data and turn it into insight It will introduce you to the use of machine learning techniques social networks analytics and econometrics to help your clients get insights about the pool of data they have at hand Performing data preparation and processing over several kinds of data such as text images graphs documents and time series will also be covered Practical Data Analysis presents a detailed exploration of the current work in data analysis through self contained projects First you will explore the basics of data preparation and transformation through OpenRefine Then you will get started with exploratory data analysis using the D3js visualization framework You will also be introduced to some of the machine learning techniques such as

classification regression and clusterization through practical projects such as spam classification predicting gold prices and finding clusters in your Facebook friends network You will learn how to solve problems in text classification simulation time series forecast social media and MapReduce through detailed projects Finally you will work with large amounts of Twitter data using MapReduce to perform a sentiment analysis implemented in Python and MongoDB Practical Data Analysis contains a combination of carefully selected algorithms and data scrubbing that enables you to turn your data into insight What you will learn from this book Work with data to get meaningful results from your data analysis projects Visualize your data to find trends and correlations Build your own image similarity search engine Learn how to forecast numerical values from time series data Create an interactive visualization for your social media graph Explore the MapReduce framework in MongoDB Create interactive simulations with D3js Approach Practical Data Analysis is a practical step by step guide to empower small businesses to manage and analyze your data and extract valuable information from the data Who this book is written for This book is for developers small business users and analysts who want to implement data analysis and visualization for their company in a practical way You need no prior experience with data analysis or data processing however basic knowledge of programming statistics and linear algebra is assumed Data Analytics for Absolute Beginners: a Deconstructed Guide to Data Literacy Oliver Theobald, 2019-07-21 While exposure to data has become more or less a daily ritual for the rank and file knowledge worker true understanding treated in this book as data literacy resides in knowing what lies behind the data Everything from the data's source to the specific choice of input variables algorithmic transformations and visual representation shape the accuracy relevance and value of the data and mark its journey from raw data to business insight It's also important to grasp the terminology and basic concepts of data analytics as much as it is to have the financial literacy to be successful as a decisionmaker in the business world In this book we make sense of data analytics without the assumption that you understand specific data science terminology or advanced programming languages to set you on your path Topics covered in this book Data Mining Big Data Machine Learning Alternative Data Data Management Web Scraping Regression Analysis Clustering Analysis Association Analysis Data Visualization Business Data Science Vijay Kotu, Bala Deshpande, 2018-11-27 Learn the basics of Data Science through an easy to Intelligence understand conceptual framework and immediately practice using RapidMiner platform Whether you are brand new to data science or working on your tenth project this book will show you how to analyze data uncover hidden patterns and relationships to aid important decisions and predictions Data Science has become an essential tool to extract value from data for any organization that collects stores and processes data as part of its operations. This book is ideal for business users data analysts business analysts engineers and analytics professionals and for anyone who works with data You ll be able to Gain the necessary knowledge of different data science techniques to extract value from data Master the concepts and inner workings of 30 commonly used powerful data science algorithms Implement step by step data science process using using

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Further it covers artificial intelligence and the pivotal role played by machine learning models It explains feature engineering the distinction between algorithms and models and how to harness their power to make predictions Moving forward it discusses how to assess machine learning models after their creation with insights into various evaluation techniques It emphasizes the crucial aspects of model deployment including the pros and cons of on device versus cloud based solutions It concludes with real world examples and encourages embracing AI while dispelling fears and fostering an appreciation for the transformative potential of these technologies Whether you re a beginner or an experienced professional this book offers valuable insights that will expand your horizons in the world of data and AI What you will learn What are Synthetic data and Telemetry data How to analyze data using programming languages like Python and Tableau What is feature engineering What are the practical Implications of Artificial Intelligence Who this book is for Data analysts scientists and engineers seeking to enhance their skills explore advanced concepts and stay up to date with ethics Business leaders and decision makers across industries are interested in understanding the transformative potential and ethical implications of data Discovering Knowledge in Data Daniel T. Larose, Chantal D. Larose, 2014-07-08 The analytics and AI in their organizations field of data mining lies at the confluence of predictive analytics statistical analysis and business intelligence Due to the ever increasing complexity and size of data sets and the wide range of applications in computer science business and health care the process of discovering knowledge in data is more relevant than ever before This book provides the tools needed to thrive in today s big data world The author demonstrates how to leverage a company s existing databases to increase profits and market share and carefully explains the most current data science methods and techniques The reader will learn data mining by doing data mining By adding chapters on data modelling preparation imputation of missing data and multivariate statistical analysis Discovering Knowledge in Data Second Edition remains the eminent reference on data mining The second edition of a highly praised successful reference on data mining with thorough coverage of big data applications predictive analytics and statistical analysis Includes new chapters on Multivariate Statistics Preparing to Model the Data and Imputation of Missing Data and an Appendix on Data Summarization and Visualization Offers extensive coverage of the R statistical programming language Contains 280 end of chapter exercises Includes a companion website for university instructors who adopt the book **Discovering Knowledge in Data** Daniel T. Larose, 2005-01-28 Learn Data Mining by doing data mining Data mining can be revolutionary but only when it s done right The powerful black box data mining software now available can produce disastrously misleading results unless applied by a skilled and knowledgeable analyst Discovering Knowledge in Data An Introduction to Data Mining provides both the practical experience and the theoretical insight needed to reveal valuable information hidden in large data sets Employing a white box methodology and with real world case studies this step by step guide walks readers through the various algorithms and statistical structures that underlie the software and presents examples of their operation on actual large data sets Principal topics include Data

preprocessing and classification Exploratory analysis Decision trees Neural and Kohonen networks Hierarchical and k means clustering Association rules Model evaluation techniques Complete with scores of screenshots and diagrams to encourage graphical learning Discovering Knowledge in Data An Introduction to Data Mining gives students in Business Computer Science and Statistics as well as professionals in the field the power to turn any data warehouse into actionable knowledge An Instructor's Manual presenting detailed solutions to all the problems in the book is available online Statistical Analysis and Data Mining Applications Ken Yale, Robert Nisbet, Gary D. Miner, 2017-11-09 Handbook of Statistical Analysis and Data Mining Applications Second Edition is a comprehensive professional reference book that guides business analysts scientists engineers and researchers both academic and industrial through all stages of data analysis model building and implementation The handbook helps users discern technical and business problems understand the strengths and weaknesses of modern data mining algorithms and employ the right statistical methods for practical application This book is an ideal reference for users who want to address massive and complex datasets with novel statistical approaches and be able to objectively evaluate analyses and solutions It has clear intuitive explanations of the principles and tools for solving problems using modern analytic techniques and discusses their application to real problems in ways accessible and beneficial to practitioners across several areas from science and engineering to medicine academia and commerce Includes input by practitioners for practitioners Includes tutorials in numerous fields of study that provide step by step instruction on how to use supplied tools to build models Contains practical advice from successful real world implementations Brings together in a single resource all the information a beginner needs to understand the tools and issues in data mining to build successful data mining solutions Features clear intuitive explanations of novel analytical tools and techniques and their practical applications

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