DATA COMPUTING

AN INTRODUCTION TO
WRANGLING AND VISUALIZATION WITH R

DANIEL KAPLAN

Data Computing An Introduction To Wrangling And Visualization With R

Sutaip L.C. Saw

Data Computing An Introduction To Wrangling And Visualization With R:

   Data Computing Daniel Kaplan,2015   Introduction to Statistical Computing and Visualization Using R Megha Rathi,2025-05-01 The book provides a foundational guide to statistical computing and visualisation Using R programming with an emphasis on practical data analysis skills that are directly applicable to diverse fields like finance defence health and education It uniquely combines a thorough explanation of basic constructs with advanced topics such as data visualisation statistical modeling and probability making it accessible yet comprehensive for learners across disciplines This approach allows readers not only to build essential R skills but also to apply them to real world scenarios equipping students and professionals from various disciplines with versatile analytical tools It offers a comprehensive yet approachable introduction for students and scholars from various disciplines using R Includes practical and interactive elements such as quizzes coding exercises and hands on projects can provide an engaging and effective learning experience for readers Provides complete code solutions to every problem presented including detailed answers to even the most complex questions Presents case studies that can help contextualize the concepts covered in the book by showing how they are used in specific industries fields or contexts Offers application based practical data analysis with cases in various fields and sectors such as finance healthcare and marketing Focuses on best practices and efficient coding techniques improving productivity and maintainability of R code   Introduction to Classifier Performance Analysis with R Sutaip L.C. Saw,2024-12-03 Classification problems are common in business medicine science engineering and other sectors of the economy Data scientists and machine learning professionals solve these problems through the use of classifiers Choosing one of these data driven classification algorithms for a given problem is a challenging task An important aspect involved in this task is classifier performance analysis CPA Introduction to Classifier Performance Analysis with R provides an introductory account of commonly used CPA techniques for binary and multiclass problems and use of the R software system to accomplish the analysis Coverage draws on the extensive literature available on the subject including descriptive and inferential approaches to CPA Exercises are included at the end of each chapter to reinforce learning Key Features An introduction to binary and multiclass classification problems is provided including some classifiers based on statistical machine and ensemble learning Commonly used techniques for binary and multiclass CPA are covered some from less well known but useful points of view Coverage also includes important topics that have not received much attention in textbook accounts of CPA Limitations of some commonly used performance measures are highlighted Coverage includes performance parameters and inferential techniques for them Also covered are techniques for comparative analysis of competing classifiers A key contribution involves the use of key R meta packages like tidyverse and tidymodels for CPA particularly the very useful yardstick package This is a useful resource for upper level undergraduate and masters level students in data science machine learning and related disciplines Practitioners interested in learning how to use R to evaluate classifier performance can also potentially

benefit from the book The material and references in the book can also serve the needs of researchers in CPA

   Introduction to Data Science Rafael A. Irizarry,2024-08-02 Unlike the first edition the new edition has been split into two books Thoroughly revised and updated this is the first book of the second edition of Introduction to Data Science Data Wrangling and Visualization with R It introduces skills that can help you tackle real world data analysis challenges These include R programming data wrangling with dplyr data visualization with ggplot2 file organization with UNIX Linux shell version control with Git and GitHub and reproducible document preparation with Quarto and knitr The new edition includes additional material chapters on data table locales and accessing data through APIs The book is divided into four parts R Data Visualization Data Wrangling and Productivity Tools Each part has several chapters meant to be presented as one lecture and includes dozens of exercises The second book will cover topics including probability statistics and prediction algorithms with R Throughout the book we use motivating case studies In each case study we try to realistically mimic a data scientist s experience For each of the skills covered we start by asking specific questions and answer these through data analysis Examples of the case studies included in the book are US murder rates by state self reported student heights trends in world health and economics and the impact of vaccines on infectious disease rates This book is meant to be a textbook for a first course in Data Science No previous knowledge of R is necessary although some experience with programming may be helpful To be a successful data analyst implementing these skills covered in this book requires understanding advanced statistical concepts such as those covered the second book If you read and understand all the chapters and complete all the exercises in this book and understand statistical concepts you will be well positioned to perform basic data analysis tasks and you will be prepared to learn the more advanced concepts and skills needed to become an expert   **Data Science for Mathematicians** Nathan Carter,2020-09-16 Mathematicians have skills that if deepened in the right ways would enable them to use data to answer questions important to them and others and report those answers in compelling ways Data science combines parts of mathematics statistics computer science Gaining such power and the ability to teach has reinvigorated the careers of mathematicians This handbook will assist mathematicians to better understand the opportunities presented by data science As it applies to the curriculum research and career opportunities data science is a fast growing field Contributors from both academics and industry present their views on these opportunities and how to advantage them

   Beginner's Guide to R Programming Agasti Khatri,2025-02-20 Discover the world of data analysis with Beginner s Guide to R Programming This comprehensive resource is crafted to help individuals learn the R programming language and explore its diverse applications Whether you re a complete beginner or an experienced analyst our book offers a structured learning path that starts with the basics and progresses to advanced topics like statistical analysis data visualization and machine learning Each chapter includes practical examples exercises and real world case studies encouraging hands on experimentation with R code You ll delve into data types functions data manipulation statistical analysis data visualization

and more building a solid foundation in R programming and data analysis Complex concepts are explained in clear easy to understand language with visual aids code snippets and step by step tutorials to help you grasp key ideas effectively The book emphasizes practical applications of R in real world scenarios showcasing how you can use R to solve problems analyze data make informed decisions and communicate insights With access to supplementary resources including downloadable datasets code samples and additional exercises you ll further enhance your learning experience and practice your skills

Models Demystified Michael Clark,Seth Berry,2025-08-15 Unlock the Power of Data Science and Machine Learning In this comprehensive guide we delve into the world of data science machine learning and AI modeling providing readers with a robust foundation and practical skills to tackle real world problems From basic modeling techniques to advanced machine learning algorithms this book covers a wide range of topics ensuring that readers at all levels can benefit from its content Each chapter is meticulously crafted to offer clear explanations hands on examples and code snippets in both Python and R making complex concepts accessible and actionable Additional focus is placed on model interpretation and estimation common data issues modeling pitfalls to avoid and best practices for modeling in general **Introduction to Political Analysis in R** H. Whitt Kilburn,2025-08-15 Introduction to Political Analysis in R is a comprehensive guide for students and researchers eager to delve into the intersection of data science statistics and political science Aimed at equipping readers with the essential quantitative skills to analyze political data the book bridges practical coding techniques in R with foundational statistical concepts emphasizing real world applications in politics The text adopts a progressive structure beginning with the basics of R and data manipulation before advancing to more complex topics such as data visualization spatial analysis text analysis and modeling Through accessible language and engaging examples ranging from U S election forecasting to global development trends it demystifies complex analytical methods Each chapter integrates coding exercises and real world datasets to reinforce learning fostering independent data analysis skills Designed for undergraduate political science majors this book is also a valuable resource for anyone seeking to understand data driven political analysis whether for academic research professional development or personal curiosity Key features include Integrates data science and statistics with a political science focus offering hands on coding practice using the R programming language Provides real world datasets and step by step exercises enabling students to directly apply concepts to political phenomena such as gerrymandering Features a progressive chapter structure progressing from foundational data handling to advanced methods like text analysis spatial mapping and linear modeling Emphasizes accessible coding for beginners fostering self sufficiency in data analysis without requiring prior statistical expertise Bridges theory and application with examples that engage students interest in politics while developing transferable analytical skills H Whitt Kilburn is Associate Professor of Political Science Grand Valley State University Allendale Michigan Doing Data Science in R Mark Andrews,2021-03-31 This approachable introduction to doing data science in R provides step by step advice on using the tools and statistical methods

to carry out data analysis Introducing the fundamentals of data science and R before moving into more advanced topics like Multilevel Models and Probabilistic Modelling with Stan it builds knowledge and skills gradually This book Focuses on providing practical guidance for all aspects helping readers get to grips with the tools software and statistical methods needed to provide the right type and level of analysis their data requires Explores the foundations of data science and breaks down the processes involved focusing on the link between data science and practical social science skills Introduces R at the outset and includes extensive worked examples and R code every step of the way ensuring students see the value of R and its connection to methods while providing hands on practice in the software Provides examples and datasets from different disciplines and locations demonstrate the widespread relevance possible applications and impact of data science across the social sciences *Data Science* Tiffany Timbers,Trevor Campbell,Melissa Lee,Joel Ostblom,Lindsey Heagy,2024-08-23 Data Science A First Introduction with Python focuses on using the Python programming language in Jupyter notebooks to perform data manipulation and cleaning create effective visualizations and extract insights from data using classification regression clustering and inference It emphasizes workflows that are clear reproducible and shareable and includes coverage of the basics of version control Based on educational research and active learning principles the book uses a modern approach to Python and includes accompanying autograded Jupyter worksheets for interactive self directed learning The text will leave readers well prepared for data science projects It is designed for learners from all disciplines with minimal prior knowledge of mathematics and programming The authors have honed the material through years of experience teaching thousands of undergraduates at the University of British Columbia Key Features Includes autograded worksheets for interactive self directed learning Introduces readers to modern data analysis and workflow tools such as Jupyter notebooks and GitHub and covers cutting edge data analysis and manipulation Python libraries such as pandas scikit learn and altair Is designed for a broad audience of learners from all backgrounds and disciplines **Analyzing Baseball Data with R, Second Edition** Max Marchi,Jim Albert,Benjamin S. Baumer,2018-11-19 Analyzing Baseball Data with R Second Edition introduces R to sabermetricians baseball enthusiasts and students interested in exploring the richness of baseball data It equips you with the necessary skills and software tools to perform all the analysis steps from importing the data to transforming them into an appropriate format to visualizing the data via graphs to performing a statistical analysis The authors first present an overview of publicly available baseball datasets and a gentle introduction to the type of data structures and exploratory and data management capabilities of R They also cover the ggplot2 graphics functions and employ a tidyverse friendly workflow throughout Much of the book illustrates the use of R through popular sabermetrics topics including the Pythagorean formula runs expectancy catcher framing career trajectories simulation of games and seasons patterns of streaky behavior of players and launch angles and exit velocities All the datasets and R code used in the text are available online New to the second edition are a systematic adoption of the tidyverse and incorporation of Statcast player tracking data made available by

Baseball Savant All code from the first edition has been revised according to the principles of the tidyverse Tidyverse packages including dplyr ggplot2 tidyr purrr and broom are emphasized throughout the book Two entirely new chapters are made possible by the availability of Statcast data one explores the notion of catcher framing ability and the other uses launch angle and exit velocity to estimate the probability of a home run Through the book s various examples you will learn about modern sabermetrics and how to conduct your own baseball analyses Max Marchi is a Baseball Analytics Analyst for the Cleveland Indians He was a regular contributor to The Hardball Times and Baseball Prospectus websites and previously consulted for other MLB clubs Jim Albert is a Distinguished University Professor of statistics at Bowling Green State University He has authored or coauthored several books including Curve Ball and Visualizing Baseball and was the editor of the Journal of Quantitative Analysis of Sports Ben Baumer is an assistant professor of statistical data sciences at Smith College Previously a statistical analyst for the New York Mets he is a co author of The Sabermetric Revolution and Modern Data Science with R **Introduction to NFL Analytics with R** Bradley J. Congelio,2023-12-19 It has become difficult to ignore the analytics movement within the NFL An increasing number of coaches openly integrate advanced numbers into their game plans and commentators throughout broadcasts regularly use terms such as air yards CPOE and EPA on a casual basis This rapid growth combined with an increasing accessibility to NFL data has helped create a burgeoning amateur analytics movement highlighted by the NFL s annual Big Data Bowl Because learning a coding language can be a difficult enough endeavor Introduction to NFL Analytics with R is purposefully written in a more informal format than readers of similar books may be accustomed to opting to provide step by step instructions in a structured jargon free manner Key Coverage Installing R RStudio and necessary packages Working and becoming fluent in the tidyverse Finding meaning in NFL data with examples from all the functions in the nflverse family of packages Using NFL data to create eye catching data visualizations Building statistical models starting with simple regressions and progressing to advanced machine learning models using tidymodels and eXtreme Gradient Boosting The book is written for novices of R programming all the way to more experienced coders as well as audiences with differing expected outcomes Professors can use Introduction to NFL Analytics with R to provide data science lessons through the lens of the NFL while students can use it as an educational tool to create robust visualizations and machine learning models for assignments Journalists bloggers and arm chair quarterbacks alike will find the book helpful to underpin their arguments by providing hard data and visualizations to back up their claims **Modern Data Science with R** Benjamin S. Baumer,Daniel T. Kaplan,Nicholas J. Horton,2021-04-13 From a review of the first edition Modern Data Science with R is rich with examples and is guided by a strong narrative voice What s more it presents an organizing framework that makes a convincing argument that data science is a course distinct from applied statistics The American Statistician Modern Data Science with R is a comprehensive data science textbook for undergraduates that incorporates statistical and computational thinking to solve real world data problems Rather than focus

exclusively on case studies or programming syntax this book illustrates how statistical programming in the state of the art R RStudio computing environment can be leveraged to extract meaningful information from a variety of data in the service of addressing compelling questions The second edition is updated to reflect the growing influence of the tidyverse set of packages All code in the book has been revised and styled to be more readable and easier to understand New functionality from packages like sf purrr tidymodels and tidytext is now integrated into the text All chapters have been revised and several have been split re organized or re imagined to meet the shifting landscape of best practice *Data Visualization in R and Python* Marco Cremonini,2024-12-03 Communicate the data that is powering our changing world with this essential text The advent of machine learning and neural networks in recent years along with other technologies under the broader umbrella of artificial intelligence has produced an explosion in Data Science research and applications Data Visualization which combines the technical knowledge of how to work with data and the visual and communication skills required to present it is an integral part of this subject The expansion of Data Science is already leading to greater demand for new approaches to Data Visualization a process that promises only to grow Data Visualization in R and Python offers a thorough overview of the key dimensions of this subject Beginning with the fundamentals of data visualization with Python and R two key environments for data science the book proceeds to lay out a range of tools for data visualization and their applications in web dashboards data science environments graphics maps and more With an eye towards remarkable recent progress in open source systems and tools this book offers a cutting edge introduction to this rapidly growing area of research and technological development Data Visualization in R and Python readers will also find Coverage suitable for anyone with a foundational knowledge of R and Python Detailed treatment of tools including the Ggplot2 Seaborn and Altair libraries Plotly Dash Shiny and others Case studies accompanying each chapter with full explanations for data operations and logic for each based on Open Data from many different sources and of different formats Data Visualization in R and Python is ideal for any student or professional looking to understand the working principles of this key field *Hands-On Data Science with R* Vitor Bianchi Lanzetta,Nataraj Dasgupta,Ricardo Anjoleto Farias,2018-11-30 A hands on guide for professionals to perform various data science tasks in R Key FeaturesExplore the popular R packages for data scienceUse R for efficient data mining text analytics and feature engineeringBecome a thorough data science professional with the help of hands on examples and use cases in RBook Description R is the most widely used programming language and when used in association with data science this powerful combination will solve the complexities involved with unstructured datasets in the real world This book covers the entire data science ecosystem for aspiring data scientists right from zero to a level where you are confident enough to get hands on with real world data science problems The book starts with an introduction to data science and introduces readers to popular R libraries for executing data science routine tasks This book covers all the important processes in data science such as data gathering cleaning data and then uncovering patterns from it You will explore algorithms such as machine

learning algorithms predictive analytical models and finally deep learning algorithms You will learn to run the most powerful visualization packages available in R so as to ensure that you can easily derive insights from your data Towards the end you will also learn how to integrate R with Spark and Hadoop and perform large scale data analytics without much complexity What you will learnUnderstand the R programming language and its ecosystem of packages for data scienceObtain and clean your data before processingMaster essential exploratory techniques for summarizing dataExamine various machine learning prediction modelsExplore the H2O analytics platform in R for deep learningApply data mining techniques to available datasetsWork with interactive visualization packages in RIntegrate R with Spark and Hadoop for large scale data analyticsWho this book is for If you are a budding data scientist keen to learn about the popular pandas library or a Python developer looking to step into the world of data analysis this book is the ideal resource you need to get started Some programming experience in Python will be helpful to get the most out of this course   *Mathematical Engineering of Deep Learning* Benoit Liquet,Sarat Moka,Yoni Nazarathy,2024-10-03 Mathematical Engineering of Deep Learning provides a complete and concise overview of deep learning using the language of mathematics The book provides a self contained background on machine learning and optimization algorithms and progresses through the key ideas of deep learning These ideas and architectures include deep neural networks convolutional models recurrent models long short term memory the attention mechanism transformers variational auto encoders diffusion models generative adversarial networks reinforcement learning and graph neural networks Concepts are presented using simple mathematical equations together with a concise description of relevant tricks of the trade The content is the foundation for state of the art artificial intelligence applications involving images sound large language models and other domains The focus is on the basic mathematical description of algorithms and methods and does not require computer programming The presentation is also agnostic to neuroscientific relationships historical perspectives and theoretical research The benefit of such a concise approach is that a mathematically equipped reader can quickly grasp the essence of deep learning Key Features A perfect summary of deep learning not tied to any computer language or computational framework An ideal handbook of deep learning for readers that feel comfortable with mathematical notation An up to date description of the most influential deep learning ideas that have made an impact on vision sound natural language understanding and scientific domains The exposition is not tied to the historical development of the field or to neuroscience allowing the reader to quickly grasp the essentials Deep learning is easily described through the language of mathematics at a level accessible to many professionals Readers from fields such as engineering statistics physics pure mathematics econometrics operations research quantitative management quantitative biology applied machine learning or applied deep learning will quickly gain insights into the key mathematical engineering components of the field

   Geographic Data Science with R Michael C. Wimberly,2023-05-08 The burgeoning field of data science has provided a wealth of techniques for analysing large and complex geospatial datasets including descriptive explanatory and predictive

analytics However applying these methods is just one part of the overall process of geographic data science Other critical steps include screening for suspect data values handling missing data harmonizing data from multiple sources summarizing the data and visualizing data and analysis results Although there are many books available on statistical and machine learning methods few encompass the broader topic of scientific workflows for geospatial data processing and analysis The purpose of Geographic Data Science with R is to fill this gap by providing a series of tutorials aimed at teaching good practices for using geospatial data to address problems in environmental geography It is based on the R language and environment which currently provides the best option for working with diverse spatial and non spatial data in a single platform Fundamental techniques for processing and visualizing tabular vector and raster data are introduced through a series of practical examples followed by case studies that combine multiple types of data to address more complex problems The book will have a broad audience Both students and professionals can use it as a workbook to learn high level techniques for geospatial data processing and analysis with R It is also suitable as a textbook Although not intended to provide a comprehensive introduction to R it is designed to be accessible to readers who have at least some knowledge of coding but little to no experience with R Key Features Focus on developing practical workflows for processing and integrating multiple sources of geospatial data in R Example based approach that teaches R programming and data science concepts through real world applications related to climate land cover and land use and natural hazards Consistent use of tidyverse packages for tabular data manipulation and visualization Strong focus on analysing continuous and categorical raster datasets using the new terra package Organized so that each chapter builds on the topics and techniques covered in the preceding chapters Can be used for self study or as the textbook for a geospatial science course   **Managerial Perspectives on Intelligent Big Data Analytics** Sun, Zhaohao,2019-02-22 Big data analytics and artificial intelligence are revolutionizing work management and lifestyles and are becoming disruptive technologies for healthcare e commerce and web services However many fundamental technological and managerial issues for developing and applying intelligent big data analytics in these fields have yet to be addressed Managerial Perspectives on Intelligent Big Data Analytics is a collection of innovative research that discusses the integration and application of artificial intelligence business intelligence digital transformation and intelligent big data analytics from a perspective of computing service and management While highlighting topics including e commerce machine learning and fuzzy logic this book is ideally designed for students government officials data scientists managers consultants analysts IT specialists academicians researchers and industry professionals in fields that include big data artificial intelligence computing and commerce   **Probability, Statistics, and Data** Darrin Speegle,Bryan Clair,2021-11-26 This book is a fresh approach to a calculus based first course in probability and statistics using R throughout to give a central role to data and simulation The book introduces probability with Monte Carlo simulation as an essential tool Simulation makes challenging probability questions quickly accessible and easily understandable Mathematical

approaches are included using calculus when appropriate but are always connected to experimental computations Using R and simulation gives a nuanced understanding of statistical inference The impact of departure from assumptions in statistical tests is emphasized quantified using simulations and demonstrated with real data The book compares parametric and non parametric methods through simulation allowing for a thorough investigation of testing error and power The text builds R skills from the outset allowing modern methods of resampling and cross validation to be introduced along with traditional statistical techniques Fifty two data sets are included in the complementary R package fosdata Most of these data sets are from recently published papers so that you are working with current real data which is often large and messy Two central chapters use powerful tidyverse tools dplyr ggplot2 tidyr stringr to wrangle data and produce meaningful visualizations Preliminary versions of the book have been used for five semesters at Saint Louis University and the majority of the more than 400 exercises have been classroom tested _Computing Skills for Biologists_ Stefano Allesina,Madlen Wilmes,2019-01-15 A concise introduction to key computing skills for biologists While biological data continues to grow exponentially in size and quality many of today s biologists are not trained adequately in the computing skills necessary for leveraging this information deluge In Computing Skills for Biologists Stefano Allesina and Madlen Wilmes present a valuable toolbox for the effective analysis of biological data Based on the authors experiences teaching scientific computing at the University of Chicago this textbook emphasizes the automation of repetitive tasks and the construction of pipelines for data organization analysis visualization and publication Stressing practice rather than theory the book s examples and exercises are drawn from actual biological data and solve cogent problems spanning the entire breadth of biological disciplines including ecology genetics microbiology and molecular biology Beginners will benefit from the many examples explained step by step while more seasoned researchers will learn how to combine tools to make biological data analysis robust and reproducible The book uses free software and code that can be run on any platform Computing Skills for Biologists is ideal for scientists wanting to improve their technical skills and instructors looking to teach the main computing tools essential for biology research in the twenty first century Excellent resource for acquiring comprehensive computing skills Both novice and experienced scientists will increase efficiency by building automated and reproducible pipelines for biological data analysis Code examples based on published data spanning the breadth of biological disciplines Detailed solutions provided for exercises in each chapter Extensive companion website

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