

Learn By Example: Statistics and Data Science in R

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Learn By Example Statistics And Data Science In R Udemy

Eugenia Smyrnova-Trybulska, Nian-Shing Chen, Piet Kommers, Nataliia Morze

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E-Learning and Enhancing Soft Skills Eugenia Smyrnova-Trybulska, Nian-Shing Chen, Piet Kommers, Nataliia Morze, 2025-03-10 This volume E Learning and Enhancing Soft Skills is a collection of articles by participants of the 16th annual scientific international conference Theoretical and Practical Aspects of Distance Learning E Learning and Enhancing of Soft Skills This conference held on the 14th and 15th October 2024 in hybrid mode is organized by the Faculty of Arts and Educational Sciences in Cieszyn the Faculty of Social Sciences the Institute of Pedagogy the Faculty of Science and Technology the Institute of Computer Science University of Silesia in Katowice Poland Co organizers and partners included University of Ostrava UO Czech Republic Silesian University in Opava SU Czech Republic Constantine the Philosopher University in Nitra UKF Slovakia University of Extremadura UEx Spain University of Twente UT The Netherlands Lisbon Lucada University LU Portugal Curtin University in Perth CU Australia Borys Grinchenko Kyiv University BGKU Ukraine Dniprovsk State Technical University DSTU Ukraine IADIS International Association for Development of the Information Society a non profit association Polish Pedagogical Society Branch in Cieszyn Polish Scientific Society for Internet Education Association of Academic E learning Poland Experts on e learning from different countries provide insights into their studies present their recent research results and discuss their further scientific work The authors include experts well known scholars young researchers highly trained academic lecturers with long experience in the field of e learning AI and robotics in education MOOCs teacher training an area digutak and soft skills m learning smart technologies VR AR PhD students distance course developers authors of multimedia teaching materials designers of websites and digital educational resources This monograph therefore describes the theoretical methodological and practical issues in the field of e learning and the developing of key competencies and soft skills contemporary models of education in the era of artificial intelligence proposing solutions to important problems and showing the road to further research in this field Built from the findings of an international retinue of scholars this work will be of particular interest to academic researchers educators courseware designers corporate trainers and educational technology practitioners

Learn By Examples: A Quick Guide to Data Mining with RapidMiner and Weka Eric Goh, This book aim to equip the reader with RaidMiner and Weka and Data Mining basics There will be many examples and explanations that are straight to the point You will be walked through data mining process from data preparation to data analysis descriptive statistics and data visualization to prediction modeling machine learning using Weka and RapidMiner Content Covered Introduction What is data science what is data mining CRISP DM Model what is text mining three types of analytics big data Getting Started INstall Weka and RapidMiner Prediction and Classification Prediction and Classification Machine Learning Basics Kmeans Clustering Decision Tree Naive Bayes KNN Neural Network Data Mining with Weka Data Understanding using Weka Data Preparation using Weka Model Building and Evaluation using Weka Data Mining with RapidMiner Data Understanding using RapidMiner Data Preparation using

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Spatial Analysis in Geology Using R Pedro M. Nogueira, 2024-07-01 The integration of geology with data science disciplines such as spatial statistics remote sensing and geographic information systems GIS has given rise to a shift in many natural sciences schools pushing the boundaries of knowledge and enabling new discoveries in geological processes and earth systems Spatial analysis of geological data can be used to identify patterns and trends in data to map spatial relationships and to model spatial processes R is a consolidated and yet growing statistical programming language with increasing value in spatial analysis often replacing with advantage GIS tools By providing a comprehensive guide for geologists to harness the power of spatial analysis in R *Spatial Analysis in Geology Using R* serves as a tool in addressing real world problems such as natural resource management environmental conservation and hazard prediction and mitigation Features Provides a practical and accessible overview of spatial analysis in geology using R Organised in three independent and complementary parts Introduction to R Spatial Analysis with R and Spatial Statistics and Modelling Applied approach with many detailed examples and case studies using real geological data Presents a collection of R packages that are useful in many geological situations Does not assume any prior knowledge of R all code are explained in detail Supplemented by a website with all data code and examples *Spatial Analysis in Geology Using R* will be useful to any geological researcher who has acquired basic spatial analysis skills often using GIS and is interested in deepening those skills through the use of R It could be used as a reference by applied researchers and analysts in public private or third sector industries It could also be used to teach a course on the topic to graduate students or for self study

Comprehensive Guide to Statistics Mohit Chatterjee, 2025-02-20 This comprehensive textbook offers an in depth exploration of various topics in statistics ranging from probability theory and statistical inference to machine learning and data analysis It balances theoretical rigor and practical applications catering to both undergraduate and graduate students as well as professionals in the field of statistics and related disciplines The book begins with foundational concepts in probability theory covering random variables probability distributions and expectation It then delves into statistical inference discussing estimation hypothesis testing and regression analysis Advanced topics like Bayesian statistics machine learning algorithms and resampling methods are also explored Key strengths of this textbook include clear and concise explanations numerous examples and exercises to reinforce learning The accessible yet rigorous writing style makes complex concepts understandable to readers at various levels of expertise Modern computational tools and techniques are incorporated emphasizing practical aspects of statistical analysis in the era of big data Readers are

encouraged to apply their knowledge using software packages like R and Python enhancing their skills in data analysis and interpretation This comprehensive and authoritative textbook covers a wide range of topics in statistics making it an indispensable resource for students researchers and practitioners alike It provides a solid foundation in statistical theory and its real world applications

Big Data and Data Science Dhaanyalakshmi Ahuja,2025-01-03 Big Data and Data Science Analytics for the Future dives into the fundamentals of big data and data science We explain the data science life cycle and its major components such as statistics and visualization using various programming languages like R As technology evolves the significance of data science and big data analytics continues to grow making this field increasingly important Our book is designed in a reader friendly manner targeting newcomers to data science Concepts are presented clearly and can be easily implemented through the procedures and algorithms provided As data collection multiplies exponentially analytics remains an evolving field with vast career opportunities We cater to two types of readers those skeptical about the benefits of big data and predictive analytics and enthusiasts keen to explore current applications of these technologies Big data is a fantastic choice for launching a career in IT and this book equips you with the knowledge needed to succeed We cover a broad spectrum of topics ensuring a strong foundation in data science and big data analytics

Big Data Analytics Kim H. Pries,Robert Dunnigan,2015-02-05 With this book managers and decision makers are given the tools to make more informed decisions about big data purchasing initiatives Big Data Analytics A Practical Guide for Managers not only supplies descriptions of common tools but also surveys the various products and vendors that supply the big data market Comparing and contrasting the dif

The Routledge Handbook of Research Methods for Social-Ecological Systems Reinette Biggs,Alta de Vos,Rika Preiser,Hayley Clements,Kristine Maciejewski,Maja Schlüter,2021-07-29 The Routledge Handbook of Research Methods for Social Ecological Systems provides a synthetic guide to the range of methods that can be employed in social ecological systems SES research The book is primarily targeted at graduate students lecturers and researchers working on SES and has been written in a style that is accessible to readers entering the field from a variety of different disciplinary backgrounds Each chapter discusses the types of SES questions to which the particular methods are suited and the potential resources and skills required for their implementation and provides practical examples of the application of the methods In addition the book contains a conceptual and practical introduction to SES research a discussion of key gaps and frontiers in SES research methods and a glossary of key terms in SES research Contributions from 97 different authors situated at SES research hubs in 16 countries around the world including South Africa Sweden Germany and Australia bring a wealth of expertise and experience to this book The first book to provide a guide and introduction specifically focused on methods for studying SES this book will be of great interest to students and scholars of sustainability science environmental management global environmental change studies and environmental governance The book will also be of interest to upper level undergraduates and professionals working at the science policy interface in the environmental arena

Introduction

to Research Methods Bora Pajo, 2022-09-02 The Second Edition of Introduction to Research Methods A Hands On Approach by Bora Pajo continues to make research easy to understand and easy to construct Covering both quantitative and qualitative methods this new edition lays out the differences between research approaches so readers can better understand when and how to use each research design Through clear simple and even humorous prose this text offers students a straightforward introduction to a new world of social science research Rather than making research seem intimidating Introduction to Research Methods shows students that research is an ongoing conversation concerning topics that matter in their lives a conversation that s easy to understand and easy to join The new edition features updated chapters on qualitative designs and qualitative data analysis a new chapter on big data and digital methods and updated citation and report styles for APA Style 7th Edition This title is accompanied by a complete teaching and learning package in SAGE Vantage an intuitive learning platform that integrates quality SAGE textbook content with assignable multimedia activities and auto graded assessments to drive student engagement and ensure accountability Unparalleled in its ease of use and built for dynamic teaching and learning Vantage offers customizable LMS integration and best in class support [Statistical Inference via Data Science](#)

Chester Ismay, Albert Y. Kim, Arturo Valdivia, 2025-05-02 Statistical Inference via Data Science A Modern Dive into R and the Tidyverse Second Edition offers a comprehensive guide to learning statistical inference with data science tools widely used in industry academia and government The first part of this book introduces the tidyverse suite of R packages including ggplot2 for data visualization and dplyr for data wrangling The second part introduces data modeling via simple and multiple linear regression The third part presents statistical inference using simulation based methods within a general framework implemented in R via the infer package a suitable complement to the tidyverse By working with these methods readers can implement effective exploratory data analyses conduct statistical modeling with data and carry out statistical inference via confidence intervals and hypothesis testing All of these tasks are performed by strongly emphasizing data visualization Key Features in the Second Edition Minimal Prerequisites No prior calculus or coding experience is needed making the content accessible to a wide audience Real World Data Learn with real world datasets including all domestic flights leaving New York City in 2023 the Gapminder project FiveThirtyEight com data and new datasets on health global development music coffee quality and geyser eruptions Simulation Based Inference Statistical inference through simulation based methods Expanded Theoretical Discussions Includes deeper coverage of theory based approaches their connection with simulation based approaches and a presentation of intuitive and formal aspects of these methods Enhanced Use of the infer Package Leverages the infer package for tidy and transparent statistical inference enabling readers to construct confidence intervals and conduct hypothesis tests through multiple linear regression and beyond Dynamic Online Resources All code and output are embedded in the text with additional interactive exercises discussions and solutions available online Broadened Applications Suitable for undergraduate and graduate courses including statistics data science and courses emphasizing

reproducible research The first edition of the book has been used in so many different ways for courses in statistical inference statistical programming business analytics and data science for social policy and by professionals in many other means Ideal for those new to statistics or looking to deepen their knowledge this edition provides a clear entry point into data science and modern statistical methods

R for Data Science Hadley Wickham, Mine Çetinkaya-Rundel, Garrett Grolemund, 2023-06-08 Use R to turn data into insight knowledge and understanding With this practical book aspiring data scientists will learn how to do data science with R and RStudio along with the tidyverse a collection of R packages designed to work together to make data science fast fluent and fun Even if you have no programming experience this updated edition will have you doing data science quickly You ll learn how to import transform and visualize your data and communicate the results And you ll get a complete big picture understanding of the data science cycle and the basic tools you need to manage the details Updated for the latest tidyverse features and best practices new chapters show you how to get data from spreadsheets databases and websites Exercises help you practice what you ve learned along the way You ll understand how to Visualize Create plots for data exploration and communication of results Transform Discover variable types and the tools to work with them Import Get data into R and in a form convenient for analysis Program Learn R tools for solving data problems with greater clarity and ease Communicate Integrate prose code and results with Quarto

Introduction to Data Science Rafael A. Irizarry, 2019-11-20 Introduction to Data Science Data Analysis and Prediction Algorithms with R introduces concepts and skills that can help you tackle real world data analysis challenges It covers concepts from probability statistical inference linear regression and machine learning It also helps you develop skills such as R programming data wrangling data visualization predictive algorithm building file organization with UNIX Linux shell version control with Git and GitHub and reproducible document preparation This book is a textbook for a first course in data science No previous knowledge of R is necessary although some experience with programming may be helpful The book is divided into six parts R data visualization statistics with R data wrangling machine learning and productivity tools Each part has several chapters meant to be presented as one lecture The author uses motivating case studies that realistically mimic a data scientist s experience He starts by asking specific questions and answers these through data analysis so concepts are learned as a means to answering the questions Examples of the case studies included are US murder rates by state self reported student heights trends in world health and economics the impact of vaccines on infectious disease rates the financial crisis of 2007 2008 election forecasting building a baseball team image processing of hand written digits and movie recommendation systems The statistical concepts used to answer the case study questions are only briefly introduced so complementing with a probability and statistics textbook is highly recommended for in depth understanding of these concepts If you read and understand the chapters and complete the exercises you will be prepared to learn the more advanced concepts and skills needed to become an expert

[Python for R Users](#) Ajay Ohri, 2017-11-03 The definitive guide for statisticians and data

scientists who understand the advantages of becoming proficient in both R and Python The first book of its kind Python for R Users A Data Science Approach makes it easy for R programmers to code in Python and Python users to program in R Short on theory and long on actionable analytics it provides readers with a detailed comparative introduction and overview of both languages and features concise tutorials with command by command translations complete with sample code of R to Python and Python to R Following an introduction to both languages the author cuts to the chase with step by step coverage of the full range of pertinent programming features and functions including data input data inspection data quality data analysis and data visualization Statistical modeling machine learning and data mining including supervised and unsupervised data mining methods are treated in detail as are time series forecasting text mining and natural language processing Features a quick learning format with concise tutorials and actionable analytics Provides command by command translations of R to Python and vice versa Incorporates Python and R code throughout to make it easier for readers to compare and contrast features in both languages Offers numerous comparative examples and applications in both programming languages Designed for use for practitioners and students that know one language and want to learn the other Supplies slides useful for teaching and learning either software on a companion website Python for R Users A Data Science Approach is a valuable working resource for computer scientists and data scientists that know R and would like to learn Python or are familiar with Python and want to learn R It also functions as textbook for students of computer science and statistics A Ohri is the founder of Decisionstats.com and currently works as a senior data scientist He has advised multiple startups in analytics off shoring analytics services and analytics education as well as using social media to enhance buzz for analytics products Mr Ohri s research interests include spreading open source analytics analyzing social media manipulation with mechanism design simpler interfaces for cloud computing investigating climate change and knowledge flows His other books include R for Business Analytics and R for Cloud Computing

The Essentials of Data Science: Knowledge Discovery Using R

Graham J. Williams, 2017-07-28 The Essentials of Data Science Knowledge Discovery Using R presents the concepts of data science through a hands on approach using free and open source software It systematically drives an accessible journey through data analysis and machine learning to discover and share knowledge from data Building on over thirty years experience in teaching and practising data science the author encourages a programming by example approach to ensure students and practitioners attune to the practise of data science while building their data skills Proven frameworks are provided as reusable templates Real world case studies then provide insight for the data scientist to swiftly adapt the templates to new tasks and datasets The book begins by introducing data science It then reviews R s capabilities for analysing data by writing computer programs These programs are developed and explained step by step From analysing and visualising data the framework moves on to tried and tested machine learning techniques for predictive modelling and knowledge discovery Literate programming and a consistent style are a focus throughout the book Elements of Data

Science, Machine Learning, and Artificial Intelligence Using R Frank Emmert-Streib, Salissou Moutari, Matthias Dehmer, 2023-10-03 The textbook provides students with tools they need to analyze complex data using methods from data science machine learning and artificial intelligence The authors include both the presentation of methods along with applications using the programming language R which is the gold standard for analyzing data The authors cover all three main components of data science computer science mathematics and statistics and domain knowledge The book presents methods and implementations in R side by side allowing the immediate practical application of the learning concepts Furthermore this teaches computational thinking in a natural way The book includes exercises case studies Q A and examples

Data Science, Analytics and Machine Learning with R Luiz Paulo Favero, Patricia Belfiore, Rafael de Freitas Souza, 2023-01-23 Data Science Analytics and Machine Learning with R explains the principles of data mining and machine learning techniques and accentuates the importance of applied and multivariate modeling The book emphasizes the fundamentals of each technique with step by step codes and real world examples with data from areas such as medicine and health biology engineering technology and related sciences Examples use the most recent R language syntax with recognized robust widespread and current packages Code scripts are exhaustively commented making it clear to readers what happens in each command For data collection readers are instructed how to build their own robots from the very beginning In addition an entire chapter focuses on the concept of spatial analysis allowing readers to build their own maps through geo referenced data such as in epidemiologic research and some basic statistical techniques Other chapters cover ensemble and uplift modeling and GLMM Generalized Linear Mixed Models estimations both linear and nonlinear Presents a comprehensive and practical overview of machine learning data mining and AI techniques for a broad multidisciplinary audience Serves readers who are interested in statistics analytics and modeling and those who wish to deepen their knowledge in programming through the use of R Teaches readers how to apply machine learning techniques to a wide range of data and subject areas Presents data in a graphically appealing way promoting greater information transparency and interactive learning

Practical Statistics for Data Scientists Peter Bruce, Andrew Bruce, Peter Gedeck, 2020-04-10 Statistical methods are a key part of data science yet few data scientists have formal statistical training Courses and books on basic statistics rarely cover the topic from a data science perspective The second edition of this popular guide adds comprehensive examples in Python provides practical guidance on applying statistical methods to data science tells you how to avoid their misuse and gives you advice on what s important and what s not Many data science resources incorporate statistical methods but lack a deeper statistical perspective If you re familiar with the R or Python programming languages and have some exposure to statistics this quick reference bridges the gap in an accessible readable format With this book you ll learn Why exploratory data analysis is a key preliminary step in data science How random sampling can reduce bias and yield a higher quality dataset even with big data How the principles of experimental design yield definitive answers to

questions How to use regression to estimate outcomes and detect anomalies Key classification techniques for predicting which categories a record belongs to Statistical machine learning methods that learn from data Unsupervised learning methods for extracting meaning from unlabeled data

Statistics for Machine Learning Pratap Dangeti,2017-07-21 Build Machine Learning models with a sound statistical understanding About This Book Learn about the statistics behind powerful predictive models with p value ANOVA and F statistics Implement statistical computations programmatically for supervised and unsupervised learning through K means clustering Master the statistical aspect of Machine Learning with the help of this example rich guide to R and Python Who This Book Is For This book is intended for developers with little to no background in statistics who want to implement Machine Learning in their systems Some programming knowledge in R or Python will be useful What You Will Learn Understand the Statistical and Machine Learning fundamentals necessary to build models Understand the major differences and parallels between the statistical way and the Machine Learning way to solve problems Learn how to prepare data and feed models by using the appropriate Machine Learning algorithms from the more than adequate R and Python packages Analyze the results and tune the model appropriately to your own predictive goals Understand the concepts of required statistics for Machine Learning Introduce yourself to necessary fundamentals required for building supervised unsupervised deep learning models Learn reinforcement learning and its application in the field of artificial intelligence domain In Detail Complex statistics in Machine Learning worry a lot of developers Knowing statistics helps you build strong Machine Learning models that are optimized for a given problem statement This book will teach you all it takes to perform complex statistical computations required for Machine Learning You will gain information on statistics behind supervised learning unsupervised learning reinforcement learning and more Understand the real world examples that discuss the statistical side of Machine Learning and familiarize yourself with it You will also design programs for performing tasks such as model parameter fitting regression classification density collection and more By the end of the book you will have mastered the required statistics for Machine Learning and will be able to apply your new skills to any sort of industry problem Style and approach This practical step by step guide will give you an understanding of the Statistical and Machine Learning fundamentals you ll need to build models

Foundations of Statistics for Data Scientists Alan Agresti, Maria Kateri,2021-11-29 Foundations of Statistics for Data Scientists With R and Python is designed as a textbook for a one or two term introduction to mathematical statistics for students training to become data scientists It is an in depth presentation of the topics in statistical science with which any data scientist should be familiar including probability distributions descriptive and inferential statistical methods and linear modeling The book assumes knowledge of basic calculus so the presentation can focus on why it works as well as how to do it Compared to traditional mathematical statistics textbooks however the book has less emphasis on probability theory and more emphasis on using software to implement statistical methods and to conduct simulations to illustrate key concepts All statistical analyses in the book use R software with an appendix showing

the same analyses with Python Key Features Shows the elements of statistical science that are important for students who plan to become data scientists Includes Bayesian and regularized fitting of models e g showing an example using the lasso classification and clustering and implementing methods with modern software R and Python Contains nearly 500 exercises The book also introduces modern topics that do not normally appear in mathematical statistics texts but are highly relevant for data scientists such as Bayesian inference generalized linear models for non normal responses e g logistic regression and Poisson loglinear models and regularized model fitting The nearly 500 exercises are grouped into Data Analysis and Applications and Methods and Concepts Appendices introduce R and Python and contain solutions for odd numbered exercises The book s website <http://stat4ds.rwth-aachen.de> has expanded R Python and Matlab appendices and all data sets from the examples and exercises

[Learning R](#) Richard Cotton,2013-09-09 Learn how to perform data analysis with the R language and software environment even if you have little or no programming experience With the tutorials in this hands on guide you ll learn how to use the essential R tools you need to know to analyze data including data types and programming concepts The second half of Learning R shows you real data analysis in action by covering everything from importing data to publishing your results Each chapter in the book includes a quiz on what you ve learned and concludes with exercises most of which involve writing R code Write a simple R program and discover what the language can do Use data types such as vectors arrays lists data frames and strings Execute code conditionally or repeatedly with branches and loops Apply R add on packages and package your own work for others Learn how to clean data you import from a variety of sources Understand data through visualization and summary statistics Use statistical models to pass quantitative judgments about data and make predictions Learn what to do when things go wrong while writing data analysis code

Data Analysis with R Tony Fischetti,2015-12-22 Load wrangle and analyze your data using the world s most powerful statistical programming language About This Book Load manipulate and analyze data from different sources Gain a deeper understanding of fundamentals of applied statistics A practical guide to performing data analysis in practice Who This Book Is For Whether you are learning data analysis for the first time or you want to deepen the understanding you already have this book will prove to an invaluable resource If you are looking for a book to bring you all the way through the fundamentals to the application of advanced and effective analytics methodologies and have some prior programming experience and a mathematical background then this is for you What You Will Learn Navigate the R environment Describe and visualize the behavior of data and relationships between data Gain a thorough understanding of statistical reasoning and sampling Employ hypothesis tests to draw inferences from your data Learn Bayesian methods for estimating parameters Perform regression to predict continuous variables Apply powerful classification methods to predict categorical data Handle missing data gracefully using multiple imputation Identify and manage problematic data points Employ parallelization and Rcpp to scale your analyses to larger data Put best practices into effect to make your job easier and facilitate reproducibility In Detail Frequently the tool of

choice for academics R has spread deep into the private sector and can be found in the production pipelines at some of the most advanced and successful enterprises The power and domain specificity of R allows the user to express complex analytics easily quickly and succinctly With over 7 000 user contributed packages it s easy to find support for the latest and greatest algorithms and techniques Starting with the basics of R and statistical reasoning Data Analysis with R dives into advanced predictive analytics showing how to apply those techniques to real world data though with real world examples Packed with engaging problems and exercises this book begins with a review of R and its syntax From there get to grips with the fundamentals of applied statistics and build on this knowledge to perform sophisticated and powerful analytics Solve the difficulties relating to performing data analysis in practice and find solutions to working with messy data large data communicating results and facilitating reproducibility This book is engineered to be an invaluable resource through many stages of anyone s career as a data analyst Style and approach Learn data analysis using engaging examples and fun exercises and with a gentle and friendly but comprehensive learn by doing approach

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