Gareth James
Daniela Witten
Trevor Hastie
Robert Tibshirani

An Introduction to Statistical Learning

with Applications in R

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An Introduction To Statistical Learning With Applications In R Springer Texts In Statistics:

   An Introduction to Statistical Learning Gareth James,Daniela Witten,Trevor Hastie,Robert Tibshirani,2014-07-11 An Introduction to Statistical Learning provides an accessible overview of the field of statistical learning an essential toolset for making sense of the vast and complex data sets that have emerged in fields ranging from biology to finance to marketing to astrophysics in the past twenty years This book presents some of the most important modeling and prediction techniques along with relevant applications Topics include linear regression classification resampling methods shrinkage approaches tree based methods support vector machines clustering and more Color graphics and real world examples are used to illustrate the methods presented Since the goal of this textbook is to facilitate the use of these statistical learning techniques by practitioners in science industry and other fields each chapter contains a tutorial on implementing the analyses and methods presented in R an extremely popular open source statistical software platform Two of the authors co wrote The Elements of Statistical Learning Hastie Tibshirani and Friedman 2nd edition 2009 a popular reference book for statistics and machine learning researchers An Introduction to Statistical Learning covers many of the same topics but at a level accessible to a much broader audience This book is targeted at statisticians and non statisticians alike who wish to use cutting edge statistical learning techniques to analyze their data The text assumes only a previous course in linear regression and no knowledge of matrix algebra   *An Introduction to Statistical Learning* Gareth James,Daniela Witten,Trevor Hastie,Robert Tibshirani,Jonathan Taylor,2023 An Introduction to Statistical Learning provides an accessible overview of the field of statistical learning an essential toolset for making sense of the vast and complex data sets that have emerged in fields ranging from biology to finance marketing and astrophysics in the past twenty years This book presents some of the most important modeling and prediction techniques along with relevant applications Topics include linear regression classification resampling methods shrinkage approaches tree based methods support vector machines clustering deep learning survival analysis multiple testing and more Color graphics and real world examples are used to illustrate the methods presented This book is targeted at statisticians and non statisticians alike who wish to use cutting edge statistical learning techniques to analyze their data Four of the authors co wrote An Introduction to Statistical Learning With Applications in R ISLR which has become a mainstay of undergraduate and graduate classrooms worldwide as well as an important reference book for data scientists One of the keys to its success was that each chapter contains a tutorial on implementing the analyses and methods presented in the R scientific computing environment However in recent years Python has become a popular language for data science and there has been increasing demand for a Python based alternative to ISLR Hence this book ISLP covers the same materials as ISLR but with labs implemented in Python These labs will be useful both for Python novices as well as experienced users   **Maschinelles Lernen mit R** Uli Schell,2022-01-17 Grundlagen und Beispiele Daten visualisieren und analysieren Lernergebnisse bewerten und bertragen Mit vielen Beispielen in R zum Download unter plus hanser fachbuch de

Ihr exklusiver Vorteil E Book inside beim Kauf des gedruckten Buches Wie bringt man Computern das Lernen aus Daten bei Diese praxisorientierte Einf hrung vermittelt anhand zahlreicher Beispiele die Grundlagen des maschinellen Lernens mit R H2O und Keras Sie werden in die Lage versetzt den jeweils ziel hrenden Ansatz auszuw hlen und auf eigene Fragestellungen wie Bild Klassifizierung oder Vorhersagen anzuwenden Da fehlerhafte Daten den Lernerfolg gef hrden k nnen wird der Datenvorbereitung und analyse besondere Aufmerksamkeit gewidmet R stellt hierf r hochentwickelte und wissenschaftlich fundierte Analyse Bibliotheken zur Verf gung deren Funktionsweise und Anwendung gezeigt werden Sie erfahren f r welche Anwendungsf lle statistische Verfahren wie Regression Klassifikation Faktoren Cluster und Zeitreihenanalyse ausreichen und wann Sie besser mit neuronalen Netzen wie z B CNNs oder RNNs arbeiten sollten Hier kommen das Framework H20 sowie Keras zum Einsatz Anhand von Beispielen wird gezeigt wie Sie Stolpersteine beim Lernvorgang analysieren oder von vornherein vermeiden k nnen Dar ber hinaus erfahren Sie unter welchen Umst nden Sie die Ergebnisse des maschinellen Lernens weiterverwenden k nnen und wie Sie dabei vorgehen *Statistical Data Cleaning with Applications in R* Mark van der Loo,Edwin de Jonge,2018-02-12 A comprehensive guide to automated statistical data cleaning The production of clean data is a complex and time consuming process that requires both technical know how and statistical expertise Statistical Data Cleaning brings together a wide range of techniques for cleaning textual numeric or categorical data This book examines technical data cleaning methods relating to data representation and data structure A prominent role is given to statistical data validation data cleaning based on predefined restrictions and data cleaning strategy Key features Focuses on the automation of data cleaning methods including both theory and applications written in R Enables the reader to design data cleaning processes for either one off analytical purposes or for setting up production systems that clean data on a regular basis Explores statistical techniques for solving issues such as incompleteness contradictions and outliers integration of data cleaning components and quality monitoring Supported by an accompanying website featuring data and R code This book enables data scientists and statistical analysts working with data to deepen their understanding of data cleaning as well as to upgrade their practical data cleaning skills It can also be used as material for a course in data cleaning and analyses

Fahrerintentionserkennung zur lichtbasierten Kommunikation mit Fußgängern Reschke, Johannes,2022-09-20 Besonders Fu g nger sind auf die Interaktion mit anderen Verkehrsteilnehmern angewiesen welche durch Einf hrung automatisierter Fahrsysteme entfallen wird und daher zwischen Fahrzeug und Fu g nger stattfinden muss Deshalb werden unterschiedliche Konzepte zur Fahrzeug Fu g nger Kommunikation evaluiert Die Fahrerintentionserkennung erm glicht es den Fu g ngern die neuartigen Zeichen zu erlernen indem der Fahrer und das Fahrzeug kommunizieren Especially pedestrians rely on the interaction with other road users The introduction of automated driving systems withdraws this communication from drivers and thus vehicles need to interact with pedestrians Therefore multiple vehicle pedestrian communication concepts are evaluated A driver intention prediction allows pedestrians to learn these newly introduced

signals while driver and vehicle communicate simultaneously   Probability and Statistics with R Maria Dolores Ugarte,Ana F. Militino,Alan T. Arnholt,2015-07-21 Since the publication of the popular first edition the contributed R packages on CRAN have increased from around 1 000 to over 6 000 This second edition explores how some of these new packages make analysis easier and more intuitive as well as create more visually pleasing graphs Along with adding new examples and exercises this edition improves the existing examples problems concepts data and functions Data sets R functions and more are available online   Big Data Analytics with R Simon Walkowiak,2016-07-29 Utilize R to uncover hidden patterns in your Big Data About This Book Perform computational analyses on Big Data to generate meaningful results Get a practical knowledge of R programming language while working on Big Data platforms like Hadoop Spark H2O and SQL NoSQL databases Explore fast streaming and scalable data analysis with the most cutting edge technologies in the market Who This Book Is For This book is intended for Data Analysts Scientists Data Engineers Statisticians Researchers who want to integrate R with their current or future Big Data workflows It is assumed that readers have some experience in data analysis and understanding of data management and algorithmic processing of large quantities of data however they may lack specific skills related to R What You Will Learn Learn about current state of Big Data processing using R programming language and its powerful statistical capabilities Deploy Big Data analytics platforms with selected Big Data tools supported by R in a cost effective and time saving manner Apply the R language to real world Big Data problems on a multi node Hadoop cluster e g electricity consumption across various socio demographic indicators and bike share scheme usage Explore the compatibility of R with Hadoop Spark SQL and NoSQL databases and H2O platform In Detail Big Data analytics is the process of examining large and complex data sets that often exceed the computational capabilities R is a leading programming language of data science consisting of powerful functions to tackle all problems related to Big Data processing The book will begin with a brief introduction to the Big Data world and its current industry standards With introduction to the R language and presenting its development structure applications in real world and its shortcomings Book will progress towards revision of major R functions for data management and transformations Readers will be introduce to Cloud based Big Data solutions e g Amazon EC2 instances and Amazon RDS Microsoft Azure and its HDInsight clusters and also provide guidance on R connectivity with relational and non relational databases such as MongoDB and HBase etc It will further expand to include Big Data tools such as Apache Hadoop ecosystem HDFS and MapReduce frameworks Also other R compatible tools such as Apache Spark its machine learning library Spark MLlib as well as H2O Style and approach This book will serve as a practical guide to tackling Big Data problems using R programming language and its statistical environment Each section of the book will present you with concise and easy to follow steps on how to process transform and analyse large data sets   Tree-Based Methods for Statistical Learning in R Brandon M. Greenwell,2022-06-23 Tree based Methods for Statistical Learning in R provides a thorough introduction to both individual decision tree algorithms Part I and ensembles thereof Part II Part I of the book

brings several different tree algorithms into focus both conventional and contemporary Building a strong foundation for how individual decision trees work will help readers better understand tree based ensembles at a deeper level which lie at the cutting edge of modern statistical and machine learning methodology The book follows up most ideas and mathematical concepts with code based examples in the R statistical language with an emphasis on using as few external packages as possible For example users will be exposed to writing their own random forest and gradient tree boosting functions using simple for loops and basic tree fitting software like rpart and party partykit and more The core chapters also end with a detailed section on relevant software in both R and other opensource alternatives e g Python Spark and Julia and example usage on real data sets While the book mostly uses R it is meant to be equally accessible and useful to non R programmers Consumers of this book will have gained a solid foundation and appreciation for tree based methods and how they can be used to solve practical problems and challenges data scientists often face in applied work Features Thorough coverage from the ground up of tree based methods e g CART conditional inference trees bagging boosting and random forests A companion website containing additional supplementary material and the code to reproduce every example and figure in the book A companion R package called treemisc which contains several data sets and functions used throughout the book e g there s an implementation of gradient tree boosting with LAD loss that shows how to perform the line search step by updating the terminal node estimates of a fitted rpart tree Interesting examples that are of practical use for example how to construct partial dependence plots from a fitted model in Spark MLlib using only Spark operations or post processing tree ensembles via the LASSO to reduce the number of trees while maintaining or even improving performance *Konnektoren als konstruktionale Grenzgänger* Marlene Rummel,2024-04-01 Konnektoren bildeten zwar mit let alone den Startschuss f r die Konstruktionsgrammatik r ckten danach aber aus ihrem Fokus m glicherweise auch deshalb weil sie auf mehreren Ebenen zum Verlassen ihrer Komfortzone einladen Auf der Formseite sind ihre Realisierungsm glichkeiten durch die Gr e und Variabilit t ihrer Slots komplexer als die Einheiten die bislang bevorzugt als Konstruktionen beschrieben wurden Auf der Bedeutungsseite verwischen sie die Grenzen von Kategorien wie Semantik Pragmatik oder Informationsstruktur indem sie sowohl an stabile Frames gekn pft sind als auch je nach Textsorte und kommunikativem Kontext unterschiedliche Pr ferenzen zeigen Sie werfen damit die Frage auf welche Realisierungsm glichkeiten als Konstruktionen gelten sollten sowie welche Vorlieben in die Konstruktionsbeschreibung geh ren und welche nicht Dieses Buch stellt sich den genannten Herausforderungen am Beispiel von weil da und denn Bisherige Annahmen bez glich dieser Konnektoren werden einer kritischen Pr fung unterzogen und in ein konstruktionsgrammatisches Schema berf hrt das an drei verschiedenen Korpora erprobt und verfeinert wird um das Zusammenspiel von Form Funktion und Kontext konstruktional abzubilden

Statistical Regression and Classification Norman Matloff,2017-09-19 Statistical Regression and Classification From Linear Models to Machine Learning takes an innovative look at the traditional statistical regression course presenting a

contemporary treatment in line with today s applications and users The text takes a modern look at regression A thorough treatment of classical linear and generalized linear models supplemented with introductory material on machine learning methods Since classification is the focus of many contemporary applications the book covers this topic in detail especially the multiclass case In view of the voluminous nature of many modern datasets there is a chapter on Big Data Has special Mathematical and Computational Complements sections at ends of chapters and exercises are partitioned into Data Math and Complements problems Instructors can tailor coverage for specific audiences such as majors in Statistics Computer Science or Economics More than 75 examples using real data The book treats classical regression methods in an innovative contemporary manner Though some statistical learning methods are introduced the primary methodology used is linear and generalized linear parametric models covering both the Description and Prediction goals of regression methods The author is just as interested in Description applications of regression such as measuring the gender wage gap in Silicon Valley as in forecasting tomorrow s demand for bike rentals An entire chapter is devoted to measuring such effects including discussion of Simpson s Paradox multiple inference and causation issues Similarly there is an entire chapter of parametric model fit making use of both residual analysis and assessment via nonparametric analysis Norman Matloff is a professor of computer science at the University of California Davis and was a founder of the Statistics Department at that institution His current research focus is on recommender systems and applications of regression methods to small area estimation and bias reduction in observational studies He is on the editorial boards of the Journal of Statistical Computation and the R Journal An award winning teacher he is the author of The Art of R Programming and Parallel Computation in Data Science With Examples in R C and CUDA **Intelligent Systems and Simulation** Sharadia Dey,Sabyasachi Mondal,Abhijit Paul,Jyoti Sekhar Banerjee,Ahmed J. Obaid,2025-06-27 This book covers a wide range of topics such as mathematical modeling computational methods simulation techniques in engineering and their applications in environmental sciences It begins with an introduction to the fundamental concepts and principles of mathematical modeling with subsequent sections delving into various simulation techniques including numerical methods statistical modeling and bio mathematical modeling It also explores the application of these techniques in addressing complex environmental problems Features Covers mathematical and computational modeling techniques for simulation in engineering mathematical and environmental domains Explores intelligent techniques and simulation methods to enhance accuracy and efficiency in modeling and simulation Includes practical applications and studies that demonstrate the effectiveness of techniques in real world scenarios Incorporates pertinent newly developed methodologies and applications Discusses CFD software tools like Fortran MATLAB and Mathematics This book is aimed at researchers and graduate students in computer engineering applied mathematics and applied ecology *Artificial Intelligence in Performance-Driven Design* Narjes Abbasabadi,Mehdi Ashayeri,2024-04-17 A definitive interdisciplinary reference to using artificial intelligence technology and data driven methodologies for sustainable

design Artificial Intelligence in Performance Driven Design Theories Methods and Tools explores the application of artificial intelligence AI specifically machine learning ML for performance modeling within the built environment This work develops the theoretical foundations and methodological frameworks for utilizing AI ML with an emphasis on multi scale modeling encompassing energy flows environmental quality and human systems The book examines relevant practices case studies and computational tools that harness AI s capabilities in modeling frameworks enhancing the efficiency accuracy and integration of physics based simulation optimization and automation processes Furthermore it highlights the integration of intelligent systems and digital twins throughout the lifecycle of the built environment to enhance our understanding and management of these complex environments This book also Incorporates emerging technologies into practical ideas to improve performance analysis and sustainable design Presents data driven methodologies and technologies that integrate into modeling and design platforms Shares valuable insights and tools for developing decarbonization pathways in urban buildings Includes contributions from expert researchers and educators across a range of related fields Artificial Intelligence in Performance Driven Design is ideal for architects engineers planners and researchers involved in sustainable design and the built environment It s also of interest to students of architecture building science and technology urban design and planning environmental engineering and computer science and engineering *Data Mining and Methods for Early Detection, Horizon Scanning, Modelling, and Risk Assessment of Invasive Species* Aristides Moustakas,Stelios Katsanevakis,2018-05-03 Invasive alien species are non indigenous taxa introduced to areas beyond their natural distribution and bio geographical barriers by human activity with important impacts on biodiversity human health and ecosystem services With the human population being higher than ever before and increasing together with unprecedented rates of mobility of humans and goods the introduction of new invasive species is more common than ever and is at the forefront of research in many disciplines such as ecology epidemiology and food security The mechanisms of successful introduction establishment and spread of invasive alien species are highly complex as biological social geographic economic and climatic factors influence the way an invasive species is introduced and determine the options available for its eventual detection and control With the rapid development of smart sensors social networks digital maps and remotely sensed imagery spatio temporal data are more ubiquitous and richer than ever before The availability of such large datasets Big data poses great challenges in data analysis In addition increased availability of computing power facilitates the use of computationally intensive methods for the analysis of such data Thus new methods are needed to efficiently study and understand biological invasions A Research Topic held in Frontiers Environmental Informatics aimed to address this topic Methods are defined in the widest terms and may be analytical practical or conceptual Among others a key aim of the thematic was to maximize the use of the proposed methods techniques by the scientific community and environmental stakeholders **Women in Biomaterials Science 2023** Silviya Petrova Zustiak,Sylvia Natividad-Diaz,Jenny Robinson,2024-09-11 We are pleased to announce the launch of the 2nd Edition

of Women in Science Biomaterials Science Research Topic in Frontiers in Biomaterials Science At present less than 30% of all researchers worldwide are women and similar ratios are seen in the science community particularly in the US Long standing biases and gender stereotypes are discouraging girls and women away from science related fields and STEM research in particular Science and gender equality are however essential to ensure sustainable development as highlighted by UNESCO In order to change traditional mindsets gender equality must be promoted stereotypes defeated and girls and women should be encouraged to pursue STEM careers **Geotechnical Engineering for the Preservation of Monuments and Historic Sites III** Renato Lancellotta,Carlo Viggiani,Alessandro Flora,Filomena de Silva,Lucia Mele,2022-06-14 This book contains the invited lectures presented at the 3th International Symposium on Geotechnical Engineering for the Preservation of Monuments and Historic Sites IS NAPOLI 2022 Naples Italy 22 24 June 2022 It collects the opening address the third Kerisel Lecture four keynote lectures and eleven panel lectures and provides a broad impression of 1 the current state of knowledge and 2 the techniques used worldwide for the preservation of built heritage When confronted with structures relevant to local and global history there is only one way to select the best possible conservation solution the multidisciplinary approach Therefore the invited speakers have been selected with different pertinent skills to represent this complexity from the points of view of geotechnical engineers structural engineers architects and conservation experts The book will be useful to researchers practitioners administrations and all those working or interested in the preservation of built heritage **Deep Data Analytics for New Product Development** Walter R. Paczkowski,2020-02-19 This book presents and develops the deep data analytics for providing the information needed for successful new product development Deep Data Analytics for New Product Development has a simple theme information about what customers need and want must be extracted from data to effectively guide new product decisions regarding concept development design pricing and marketing The benefits of reading this book are twofold The first is an understanding of the stages of a new product development process from ideation through launching and tracking each supported by information about customers The second benefit is an understanding of the deep data analytics for extracting that information from data These analytics drawn from the statistics econometrics market research and machine learning spaces are developed in detail and illustrated at each stage of the process with simulated data The stages of new product development and the supporting deep data analytics at each stage are not presented in isolation of each other but are presented as a synergistic whole This book is recommended reading for analysts involved in new product development Readers with an analytical bent or who want to develop analytical expertise would also greatly benefit from reading this book as well as students in business programs **How to Think about Data Science** Diego Miranda-Saavedra,2022-12-23 This book is a timely and critical introduction for those interested in what data science is and isn t and how it should be applied The language is conversational and the content is accessible for readers without a quantitative or computational background

but at the same time it is also a practical overview of the field for the more technical readers The overarching goal is to demystify the field and teach the reader how to develop an analytical mindset instead of following recipes The book takes the scientist s approach of focusing on asking the right question at every step as this is the single most important factor contributing to the success of a data science project Upon finishing this book the reader should be asking more questions than I have answered This book is therefore a practising scientist s approach to explaining data science through questions and examples **Encyclopedia of Bioinformatics and Computational Biology** ,2018-08-21 Encyclopedia of Bioinformatics and Computational Biology ABC of Bioinformatics Three Volume Set combines elements of computer science information technology mathematics statistics and biotechnology providing the methodology and in silico solutions to mine biological data and processes The book covers Theory Topics and Applications with a special focus on Integrative omics and Systems Biology The theoretical methodological underpinnings of BCB including phylogeny are covered as are more current areas of focus such as translational bioinformatics cheminformatics and environmental informatics Finally Applications provide guidance for commonly asked questions This major reference work spans basic and cutting edge methodologies authored by leaders in the field providing an invaluable resource for students scientists professionals in research institutes and a broad swath of researchers in biotechnology and the biomedical and pharmaceutical industries Brings together information from computer science information technology mathematics statistics and biotechnology Written and reviewed by leading experts in the field providing a unique and authoritative resource Focuses on the main theoretical and methodological concepts before expanding on specific topics and applications Includes interactive images multimedia tools and crosslinking to further resources and databases **Smart Manufacturing** Masoud Soroush,Michael Baldea,Thomas F. Edgar,2020-08-04 Research efforts in the past decade have led to considerable advances in the concepts and methods of smart manufacturing Smart Manufacturing Applications and Case Studies includes information about the key applications of these new methods as well as practitioners accounts of real life applications and case studies Written by thought leaders in the field from around the world Smart Manufacturing Applications and Case Studies is essential reading for graduate students researchers process engineers and managers It is complemented by a companion book titled Smart Manufacturing Concepts and Methods which describes smart manufacturing methods in detail Includes examples of applications of smart manufacturing in process industries Provides a thorough overview of the subject and practical examples of applications through well researched case studies Offers insights and accounts of first hand experiences to motivate further implementations of the key concepts of smart manufacturing **R Programming for Mass Spectrometry** Randall K. Julian,2025-05-13 A practical guide to reproducible and high impact mass spectrometry data analysis R Programming for Mass Spectrometry teaches a rigorous and detailed approach to analyzing mass spectrometry data using the R programming language It emphasizes reproducible research practices and transparent data workflows and is designed for analytical

chemists biostatisticians and data scientists working with mass spectrometry Readers will find specific algorithms and reproducible examples that address common challenges in mass spectrometry alongside example code and outputs Each chapter provides practical guidance on statistical summaries spectral search chromatographic data processing and machine learning for mass spectrometry Key topics include Comprehensive data analysis using the Tidyverse in combination with Bioconductor a widely used software project for the analysis of biological data Processing chromatographic peaks peak detection and quality control in mass spectrometry data Applying machine learning techniques using Tidymodels for supervised and unsupervised learning as well as for feature engineering and selection providing modern approaches to data driven insights Methods for producing reproducible publication ready reports and web pages using RMarkdown R Programming for Mass Spectrometry is an indispensable guide for researchers instructors and students It provides modern tools and methodologies for comprehensive data analysis With a companion website that includes code and example datasets it serves as both a practical guide and a valuable resource for promoting reproducible research in mass spectrometry

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