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Second
Edition

Machine Learning with Python Cookbook

Practical Solutions from Preprocessing
to Deep Learning



Kyle Gallatin
& Chris Albon

Machine Learning With R Cookbook

Yu-Wei, Chiu (David Chiu)



Machine Learning With R Cookbook:

Machine Learning with R Cookbook Chiu Yu-Wei, Yu-Wei Chiu, 2015 If you want to learn how to use R for machine learning and gain insights from your data then this book is ideal for you Regardless of your level of experience this book covers the basics of applying R to machine learning through to advanced techniques While it is helpful if you are familiar with basic programming or machine learning concepts you do not require prior experience to benefit from this book

Machine Learning with R Cookbook - Second Edition Ashishsingh Bhatia, 2017-10-20 Explore over 110 recipes to analyze data and build predictive models with simple and easy to use R code About This Book Apply R to simplify predictive modeling with short and simple code Use machine learning to solve problems ranging from small to big data Build a training and testing dataset applying different classification methods Who This Book Is For This book is for data science professionals data analysts or people who have used R for data analysis and machine learning who now wish to become the go to person for machine learning with R Those who wish to improve the efficiency of their machine learning models and need to work with different kinds of data set will find this book very insightful What You Will Learn Create and inspect transaction datasets and perform association analysis with the Apriori algorithm Visualize patterns and associations using a range of graphs and find frequent item sets using the Eclat algorithm Compare differences between each regression method to discover how they solve problems Detect and impute missing values in air quality data Predict possible churn users with the classification approach Plot the autocorrelation function with time series analysis Use the Cox proportional hazards model for survival analysis Implement the clustering method to segment customer data Compress images with the dimension reduction method Incorporate R and Hadoop to solve machine learning problems on big data In Detail Big data has become a popular buzzword across many industries An increasing number of people have been exposed to the term and are looking at how to leverage big data in their own businesses to improve sales and profitability However collecting aggregating and visualizing data is just one part of the equation Being able to extract useful information from data is another task and a much more challenging one Machine Learning with R Cookbook Second Edition uses a practical approach to teach you how to perform machine learning with R Each chapter is divided into several simple recipes Through the step by step instructions provided in each recipe you will be able to construct a predictive model by using a variety of machine learning packages In this book you will first learn to set up the R environment and use simple R commands to explore data The next topic covers how to perform statistical analysis with machine learning analysis and assess created models covered in detail later on in the book You ll also learn how to integrate R and Hadoop to create a big data analysis platform The detailed illustrations provide all the information required to start applying machine learning to individual projects With Machine Learning with R Cookbook machine learning has never been easier Style and approach This is an easy to follow guide packed with hands on examples of machine learning tasks Each topic includes step by step instructions on tackling difficulties faced when applying R to machine learning

Machine Learning with R Cookbook AshishSingh Bhatia,Yu-Wei, Chiu (David Chiu),2017-10-23 Explore over 110 recipes to analyze data and build predictive models with simple and easy to use R code About This Book Apply R to simplify predictive modeling with short and simple code Use machine learning to solve problems ranging from small to big data Build a training and testing dataset applying different classification methods Who This Book Is For This book is for data science professionals data analysts or people who have used R for data analysis and machine learning who now wish to become the go to person for machine learning with R Those who wish to improve the efficiency of their machine learning models and need to work with different kinds of data set will find this book very insightful What You Will Learn Create and inspect transaction datasets and perform association analysis with the Apriori algorithm Visualize patterns and associations using a range of graphs and find frequent item sets using the Eclat algorithm Compare differences between each regression method to discover how they solve problems Detect and impute missing values in air quality data Predict possible churn users with the classification approach Plot the autocorrelation function with time series analysis Use the Cox proportional hazards model for survival analysis Implement the clustering method to segment customer data Compress images with the dimension reduction method Incorporate R and Hadoop to solve machine learning problems on big data In Detail Big data has become a popular buzzword across many industries An increasing number of people have been exposed to the term and are looking at how to leverage big data in their own businesses to improve sales and profitability However collecting aggregating and visualizing data is just one part of the equation Being able to extract useful information from data is another task and a much more challenging one Machine Learning with R Cookbook Second Edition uses a practical approach to teach you how to perform machine learning with R Each chapter is divided into several simple recipes Through the step by step instructions provided in each recipe you will be able to construct a predictive model by using a variety of machine learning packages In this book you will first learn to set up the R environment and use simple R commands to explore data The next topic covers how to perform statistical analysis with machine learning analysis and assess created models covered in detail later on in the book You ll also learn how to integrate R and Hadoop to create a big data analysis platform The detailed illustrations provide all the information required to start applying machine learning to individual projects With Machine Learning with R Cookbook machine learning has never been easier Style and approach This is an easy to follow guide packed with hands on examples of machine learning tasks Each topic includes step by step instructions on tackling difficulties faced when applying R to machine learning

R Cookbook ,2016 **Deep Learning with R Cookbook** Swarna Gupta,Rehan Ali Ansari,Dipayan Sarkar,2020-02-21 Tackle the complex challenges faced while building end to end deep learning models using modern R libraries Key FeaturesUnderstand the intricacies of R deep learning packages to perform a range of deep learning tasksImplement deep learning techniques and algorithms for real world use casesExplore various state of the art techniques for fine tuning neural network modelsBook Description Deep learning DL has evolved in recent years with developments such

as generative adversarial networks GANs variational autoencoders VAEs and deep reinforcement learning This book will get you up and running with R 3 5 x to help you implement DL techniques The book starts with the various DL techniques that you can implement in your apps A unique set of recipes will help you solve binomial and multinomial classification problems and perform regression and hyperparameter optimization To help you gain hands on experience of concepts the book features recipes for implementing convolutional neural networks CNNs recurrent neural networks RNNs and Long short term memory LSTMs networks as well as sequence to sequence models and reinforcement learning You ll then learn about high performance computation using GPUs along with learning about parallel computation capabilities in R Later you ll explore libraries such as MXNet that are designed for GPU computing and state of the art DL Finally you ll discover how to solve different problems in NLP object detection and action identification before understanding how to use pre trained models in DL apps By the end of this book you ll have comprehensive knowledge of DL and DL packages and be able to develop effective solutions for different DL problems What you will learn

Work with different datasets for image classification using CNNsApply transfer learning to solve complex computer vision problemsUse RNNs and their variants such as LSTMs and Gated Recurrent Units GRUs for sequence data generation and classificationImplement autoencoders for DL tasks such as dimensionality reduction denoising and image colorizationBuild deep generative models to create photorealistic images using GANs and VAEsUse MXNet to accelerate the training of DL models through distributed computingWho this book is for This deep learning book is for data scientists machine learning practitioners deep learning researchers and AI enthusiasts who want to learn key tasks in deep learning domains using a recipe based approach A strong understanding of machine learning and working knowledge of the R programming language is mandatory

Deep Learning with R Cookbook Swarna Gupta,Rehan Ansari,Dipayan Sarkar,2020 Tackle the complex challenges faced while building end to end deep learning models using modern R libraries

Key Features Understand the intricacies of R deep learning packages to perform a range of deep learning tasks Implement deep learning techniques and algorithms for real world use cases Explore various state of the art techniques for fine tuning neural network models

Book Description Deep learning DL has evolved in recent years with developments such as generative adversarial networks GANs variational autoencoders VAEs and deep reinforcement learning This book will get you up and running with R 3 5 x to help you implement DL techniques The book starts with the various DL techniques that you can implement in your apps A unique set of recipes will help you solve binomial and multinomial classification problems and perform regression and hyperparameter optimization To help you gain hands on experience of concepts the book features recipes for implementing convolutional neural networks CNNs recurrent neural networks RNNs and Long short term memory LSTMs networks as well as sequence to sequence models and reinforcement learning You ll then learn about high performance computation using GPUs along with learning about parallel computation capabilities in R Later you ll explore libraries such as MXNet that are designed for GPU computing and state of the art DL Finally you ll

discover how to solve different problems in NLP object detection and action identification before understanding how to use pre trained models in DL apps By the end of this book you ll have comprehensive knowledge of DL and DL packages and be able to develop effective solutions for different DL problems What you will learn Work with different datasets for image classification using CNNs Apply transfer learning to solve complex computer vision problems Use RNNs and their variants such as LSTMs and Gated Recurrent Units GRUs for sequence data generation and classification Implement autoencoders for DL tasks such as dimensionality reduction denoising and image colorization Build deep generative models to create photorealistic images using GANs and VAEs Use MXNet to accelerate the training of DL models through distributed computing Who this book is for This deep learning book is for data scientists machine learning practitioners deep learning researchers and AI enthusiasts who want to learn key tasks in deep learning domains using a reci

Machine Learning with R Brett Lantz, 2023-05-29 Use R and tidyverse to prepare clean import visualize transform program communicate predict and model data No R experience is required although prior exposure to statistics and programming is helpful Purchase of the print or Kindle book includes a free eBook in PDF format Key Features Get to grips with the tidyverse challenging data and big data Create clear and concise data and model visualizations that effectively communicate results to stakeholders Solve a variety of problems using regression ensemble methods clustering deep learning probabilistic models and more Book Description Dive into R with this data science guide on machine learning ML Machine Learning with R Fourth Edition takes you through classification methods like nearest neighbor and Naive Bayes and regression modeling from simple linear to logistic Dive into practical deep learning with neural networks and support vector machines and unearth valuable insights from complex data sets with market basket analysis Learn how to unlock hidden patterns within your data using k means clustering With three new chapters on data you ll hone your skills in advanced data preparation mastering feature engineering and tackling challenging data scenarios This book helps you conquer high dimensionality sparsity and imbalanced data with confidence Navigate the complexities of big data with ease harnessing the power of parallel computing and leveraging GPU resources for faster insights Elevate your understanding of model performance evaluation moving beyond accuracy metrics With a new chapter on building better learners you ll pick up techniques that top teams use to improve model performance with ensemble methods and innovative model stacking and blending techniques Machine Learning with R Fourth Edition equips you with the tools and knowledge to tackle even the most formidable data challenges Unlock the full potential of machine learning and become a true master of the craft What you will learn Learn the end to end process of machine learning from raw data to implementation Classify important outcomes using nearest neighbor and Bayesian methods Predict future events using decision trees rules and support vector machines Forecast numeric data and estimate financial values using regression methods Model complex processes with artificial neural networks Prepare transform and clean data using the tidyverse Evaluate your models and improve their performance Connect R to SQL

databases and emerging big data technologies such as Spark Hadoop H2O and TensorFlow Who this book is for This book is designed to help data scientists actuaries data analysts financial analysts social scientists business and machine learning students and any other practitioners who want a clear accessible guide to machine learning with R No R experience is required although prior exposure to statistics and programming is helpful [R Deep Learning Cookbook](#) Dr PKS Prakash,Achyutuni Sri Krishna Rao,2017 *R Data Analysis Cookbook* Viswa Viswanathan,Shanthi Viswanathan,2015-05-27 Over 80 recipes to help you breeze through your data analysis projects using R In Detail Data analytics with R has emerged as a very important focus for organizations of all kinds R enables even those with only an intuitive grasp of the underlying concepts without a deep mathematical background to unleash powerful and detailed examinations of their data This book empowers you by showing you ways to use R to generate professional analysis reports It provides examples for various important analysis and machine learning tasks that you can try out with associated and readily available data The book also teaches you to quickly adapt the example code for your own needs and save yourself the time needed to construct code from scratch What You Will Learn perform advanced analyses and create informative and professional charts become proficient in acquiring data from many sources apply supervised and unsupervised data mining techniques use R's features to present analyses professionally Get data into your R environment and prepare it for analysis Perform exploratory data analyses and generate meaningful visualizations of the data Apply several machine learning techniques for classification and regression Get your hands around large data sets with the help of reduction techniques Extract patterns from time series data and produce forecasts based on them Learn how to extract actionable information from social network data Implement geospatial analysis Present your analysis convincingly through reports and build an infrastructure to enable others to play with your data Downloading the example code for this book You can download the example code files for all Packt books you have purchased from your account at <http://www.PacktPub.com> If you purchased this book elsewhere you can visit <http://www.PacktPub.com> support and register to have the files e mailed directly to you **R Deep Learning Cookbook** Dr. PKS Prakash,Achyutuni Sri Krishna Rao,2017-08-04 Powerful independent recipes to build deep learning models in different application areas using R libraries About This Book Master intricacies of R deep learning packages such as mxnet tensorflow Learn application on deep learning in different domains using practical examples from text image and speech Guide to set up deep learning models using CPU and GPU Who This Book Is For Data science professionals or analysts who have performed machine learning tasks and now want to explore deep learning and want a quick reference that could address the pain points while implementing deep learning Those who wish to have an edge over other deep learning professionals will find this book quite useful What You Will Learn Build deep learning models in different application areas using TensorFlow H2O and MXnet Analyzing a Deep boltzmann machine Setting up and Analysing Deep belief networks Building supervised model using various machine learning algorithms Set up variants of basic convolution function Represent data using Autoencoders

Explore generative models available in Deep Learning Discover sequence modeling using Recurrent nets Learn fundamentals of Reinforcement Learning Learn the steps involved in applying Deep Learning in text mining Explore application of deep learning in signal processing Utilize Transfer learning for utilizing pre trained model Train a deep learning model on a GPU In Detail Deep Learning is the next big thing It is a part of machine learning It s favorable results in applications with huge and complex data is remarkable Simultaneously R programming language is very popular amongst the data miners and statisticians This book will help you to get through the problems that you face during the execution of different tasks and Understand hacks in deep learning neural networks and advanced machine learning techniques It will also take you through complex deep learning algorithms and various deep learning packages and libraries in R It will be starting with different packages in Deep Learning to neural networks and structures You will also encounter the applications in text mining and processing along with a comparison between CPU and GPU performance By the end of the book you will have a logical understanding of Deep learning and different deep learning packages to have the most appropriate solutions for your problems Style and approach Collection of hands on recipes that would act as your all time reference for your deep learning needs

R for Data Science Cookbook Yu-Wei, Chiu (David Chiu), 2016-07-29 Over 100 hands on recipes to effectively solve real world data problems using the most popular R packages and techniques About This Book Gain insight into how data scientists collect process analyze and visualize data using some of the most popular R packages Understand how to apply useful data analysis techniques in R for real world applications An easy to follow guide to make the life of data scientist easier with the problems faced while performing data analysis Who This Book Is For This book is for those who are already familiar with the basic operation of R but want to learn how to efficiently and effectively analyze real world data problems using practical R packages What You Will Learn Get to know the functional characteristics of R language Extract transform and load data from heterogeneous sources Understand how easily R can confront probability and statistics problems Get simple R instructions to quickly organize and manipulate large datasets Create professional data visualizations and interactive reports Predict user purchase behavior by adopting a classification approach Implement data mining techniques to discover items that are frequently purchased together Group similar text documents by using various clustering methods In Detail This cookbook offers a range of data analysis samples in simple and straightforward R code providing step by step resources and time saving methods to help you solve data problems efficiently The first section deals with how to create R functions to avoid the unnecessary duplication of code You will learn how to prepare process and perform sophisticated ETL for heterogeneous data sources with R packages An example of data manipulation is provided illustrating how to use the dplyr and data table packages to efficiently process larger data structures We also focus on ggplot2 and show you how to create advanced figures for data exploration In addition you will learn how to build an interactive report using the ggvis package Later chapters offer insight into time series analysis on financial data while there is detailed information on the hot

topic of machine learning including data classification regression clustering association rule mining and dimension reduction By the end of this book you will understand how to resolve issues and will be able to comfortably offer solutions to problems encountered while performing data analysis Style and approach This easy to follow guide is full of hands on examples of data analysis with R Each topic is fully explained beginning with the core concept followed by step by step practical examples and concluding with detailed explanations of each concept used [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 introduced 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 [Mastering Scientific Computing with R](#) Paul Gerrard,Radia M. Johnson,2015-01-31 If you want to learn how to quantitatively answer scientific questions for practical purposes using the powerful R language and the open source R tool ecosystem this book is ideal for you It is ideally suited for scientists who

understand scientific concepts know a little R and want to be able to start applying R to be able to answer empirical scientific questions Some R exposure is helpful but not compulsory **Hands-On Data Science with R** Vitor Bianchi

Lanzetta,Nataraj Dasgupta,Ricardo Anjoletto 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 **R Data Analysis Cookbook** Kuntal Ganguly,2017-09-20 Over 80 recipes to help you breeze through your data analysis projects using R About This Book Analyse your data using the popular R packages like ggplot2 with ready to use and customizable recipes Find meaningful insights from your data and generate dynamic reports A practical guide to help you put your data analysis skills in R to practical use Who This Book Is For This book is for data scientists analysts and even enthusiasts who want to learn and implement the various data analysis techniques using R in a practical way Those looking for quick handy solutions to common tasks and challenges in data analysis will find this book to be very useful Basic knowledge of statistics and R programming is assumed What You Will Learn Acquire format and visualize your data using R Using R to perform an Exploratory data analysis Introduction to machine learning algorithms such as classification and regression Get started with social network analysis Generate dynamic reporting with Shiny Get started with geospatial analysis Handling large data with R using Spark and

MongoDB Build Recommendation system Collaborative Filtering Content based and Hybrid Learn real world dataset examples Fraud Detection and Image Recognition In Detail Data analytics with R has emerged as a very important focus for organizations of all kinds R enables even those with only an intuitive grasp of the underlying concepts without a deep mathematical background to unleash powerful and detailed examinations of their data This book will show you how you can put your data analysis skills in R to practical use with recipes catering to the basic as well as advanced data analysis tasks Right from acquiring your data and preparing it for analysis to the more complex data analysis techniques the book will show you how you can implement each technique in the best possible manner You will also visualize your data using the popular R packages like ggplot2 and gain hidden insights from it Starting with implementing the basic data analysis concepts like handling your data to creating basic plots you will master the more advanced data analysis techniques like performing cluster analysis and generating effective analysis reports and visualizations Throughout the book you will get to know the common problems and obstacles you might encounter while implementing each of the data analysis techniques in R with ways to overcoming them in the easiest possible way By the end of this book you will have all the knowledge you need to become an expert in data analysis with R and put your skills to test in real world scenarios Style and Approach Hands on recipes to walk through data science challenges using R Your one stop solution for common and not so common pain points while performing real world problems to execute a series of tasks Addressing your common and not so common pain points this is a book that you must have on the shelf Business Analytics Using R - A Practical Approach Umesh R

Hodeghatta,Umesha Nayak,2016-12-27 Learn the fundamental aspects of the business statistics data mining and machine learning techniques required to understand the huge amount of data generated by your organization This book explains practical business analytics through examples covers the steps involved in using it correctly and shows you the context in which a particular technique does not make sense Further Practical Business Analytics using R helps you understand specific issues faced by organizations and how the solutions to these issues can be facilitated by business analytics This book will discuss and explore the following through examples and case studies An introduction to R data management and R functions The architecture framework and life cycle of a business analytics project Descriptive analytics using R descriptive statistics and data cleaning Data mining classification association rules and clustering Predictiveanalytics simple regression multiple regression and logistic regression This book includes case studies on important business analytic techniques such as classification association clustering and regression The R language is the statistical tool used to demonstrate the concepts throughout the book What You Will Learn Write R programs to handle data Build analytical models and draw useful inferences from them Discover the basic concepts of data mining and machine learning Carry out predictive modeling Define a business issue as an analytical problem Who This Book Is For Beginners who want to understand and learn the fundamentals of analytics using R Students managers executives strategy and planning professionals software professionals

and BI DW professionals **Learning Bayesian Models with R** Dr. Hari M. Koduvely, 2015-10-28 Become an expert in Bayesian Machine Learning methods using R and apply them to solve real world big data problems About This Book Understand the principles of Bayesian Inference with less mathematical equations Learn state of the art Machine Learning methods Familiarize yourself with the recent advances in Deep Learning and Big Data frameworks with this step by step guide Who This Book Is For This book is for statisticians analysts and data scientists who want to build a Bayes based system with R and implement it in their day to day models and projects It is mainly intended for Data Scientists and Software Engineers who are involved in the development of Advanced Analytics applications To understand this book it would be useful if you have basic knowledge of probability theory and analytics and some familiarity with the programming language R What You Will Learn Set up the R environment Create a classification model to predict and explore discrete variables Get acquainted with Probability Theory to analyze random events Build Linear Regression models Use Bayesian networks to infer the probability distribution of decision variables in a problem Model a problem using Bayesian Linear Regression approach with the R package BLR Use Bayesian Logistic Regression model to classify numerical data Perform Bayesian Inference on massively large data sets using the MapReduce programs in R and Cloud computing In Detail Bayesian Inference provides a unified framework to deal with all sorts of uncertainties when learning patterns from data using machine learning models and use it for predicting future observations However learning and implementing Bayesian models is not easy for data science practitioners due to the level of mathematical treatment involved Also applying Bayesian methods to real world problems requires high computational resources With the recent advances in computation and several open sources packages available in R Bayesian modeling has become more feasible to use for practical applications today Therefore it would be advantageous for all data scientists and engineers to understand Bayesian methods and apply them in their projects to achieve better results Learning Bayesian Models with R starts by giving you a comprehensive coverage of the Bayesian Machine Learning models and the R packages that implement them It begins with an introduction to the fundamentals of probability theory and R programming for those who are new to the subject Then the book covers some of the important machine learning methods both supervised and unsupervised learning implemented using Bayesian Inference and R Every chapter begins with a theoretical description of the method explained in a very simple manner Then relevant R packages are discussed and some illustrations using data sets from the UCI Machine Learning repository are given Each chapter ends with some simple exercises for you to get hands on experience of the concepts and R packages discussed in the chapter The last chapters are devoted to the latest development in the field specifically Deep Learning which uses a class of Neural Network models that are currently at the frontier of Artificial Intelligence The book concludes with the application of Bayesian methods on Big Data using the Hadoop and Spark frameworks Style and approach The book first gives you a theoretical description of the Bayesian models in simple language followed by details of its implementation in the R package Each

chapter has illustrations for the use of Bayesian model and the corresponding R package using data sets from the UCI Machine Learning repository Each chapter also contains sufficient exercises for you to get more hands on practice

Modern Statistics with R Måns Thulin, 2024-08-20 The past decades have transformed the world of statistical data analysis with new methods new types of data and new computational tools Modern Statistics with R introduces you to key parts of this modern statistical toolkit It teaches you Data wrangling importing formatting reshaping merging and filtering data in R Exploratory data analysis using visualisations and multivariate techniques to explore datasets Statistical inference modern methods for testing hypotheses and computing confidence intervals Predictive modelling regression models and machine learning methods for prediction classification and forecasting Simulation using simulation techniques for sample size computations and evaluations of statistical methods Ethics in statistics ethical issues and good statistical practice R programming writing code that is fast readable and hopefully free from bugs No prior programming experience is necessary Clear explanations and examples are provided to accommodate readers at all levels of familiarity with statistical principles and coding practices A basic understanding of probability theory can enhance comprehension of certain concepts discussed within this book In addition to plenty of examples the book includes more than 200 exercises with fully worked solutions available at www.modernstatisticswithr.com

R Data Analysis Cookbook, Second Edition Kuntal Ganguly, 2017-09-20 Over 80 recipes to help you breeze through your data analysis projects using R About This Book Analyse your data using the popular R packages like ggplot2 with ready to use and customizable recipes Find meaningful insights from your data and generate dynamic reports A practical guide to help you put your data analysis skills in R to practical use Who This Book Is For This book is for data scientists analysts and even enthusiasts who want to learn and implement the various data analysis techniques using R in a practical way Those looking for quick handy solutions to common tasks and challenges in data analysis will find this book to be very useful Basic knowledge of statistics and R programming is assumed What You Will Learn Acquire format and visualize your data using R Using R to perform an Exploratory data analysis Introduction to machine learning algorithms such as classification and regression Get started with social network analysis Generate dynamic reporting with Shiny Get started with geospatial analysis Handling large data with R using Spark and MongoDB Build Recommendation system Collaborative Filtering Content based and Hybrid Learn real world dataset examples Fraud Detection and Image Recognition In Detail Data analytics with R has emerged as a very important focus for organizations of all kinds R enables even those with only an intuitive grasp of the underlying concepts without a deep mathematical background to unleash powerful and detailed examinations of their data This book will show you how you can put your data analysis skills in R to practical use with recipes catering to the basic as well as advanced data analysis tasks Right from acquiring your data and preparing it for analysis to the more complex data analysis techniques the book will show you how you can implement each technique in the best possible manner You will also visualize your data using the popular R packages like ggplot2 and

gain hidden insights from it Starting with implementing the basic data analysis concepts like handling your data to creating basic plots you will master the more advanced data analysis techniques like performing cluster analysis and generating effective analysis reports and visualizations Throughout the book you will get to know the common problems and obstacles you might encounter while implementing each of the data analysis techniques in R with ways to overcoming them in the easiest possible way By the end of this book you will have all the knowledge you need to become an expert in data analysis with R and put your skills to test in real world scenarios Style and Approach Hands on recipes to walk through data science challenges using R Your one stop solution for common and not so common pain points while performing real world problems to execute a series of tasks Addressing your common and not so common pain points this is a book that you must have on the shelf

R Machine Learning by Example Raghav Bali, Dipanjan Sarkar, 2016 Understand the fundamentals of machine learning with R and build your own dynamic algorithms to tackle complicated real world problems successfully About This Book Get to grips with the concepts of machine learning through exciting real world examples Visualize and solve complex problems by using power packed R constructs and its robust packages for machine learning Learn to build your own machine learning system with this example based practical guide Who This Book Is For If you are interested in mining useful information from data using state of the art techniques to make data driven decisions this is a go to guide for you No prior experience with data science is required although basic knowledge of R is highly desirable Prior knowledge in machine learning would be helpful but is not necessary What You Will Learn Utilize the power of R to handle data extraction manipulation and exploration techniques Use R to visualize data spread across multiple dimensions and extract useful features Explore the underlying mathematical and logical concepts that drive machine learning algorithms Dive deep into the world of analytics to predict situations correctly Implement R machine learning algorithms from scratch and be amazed to see the algorithms in action Write reusable code and build complete machine learning systems from the ground up Solve interesting real world problems using machine learning and R as the journey unfolds Harness the power of robust and optimized R packages to work on projects that solve real world problems in machine learning and data science In Detail Data science and machine learning are some of the top buzzwords in the technical world today From retail stores to Fortune 500 companies everyone is working hard to making machine learning give them data driven insights to grow their business With powerful data manipulation features machine learning packages and an active developer community R empowers users to build sophisticated machine learning systems to solve real world data problems This book takes you on a data driven journey that starts with the very basics of R and machine learning and gradually builds upon the concepts to work on projects that tackle real world problems You ll begin by getting an understanding of the core concepts and definitions required to appreciate machine learning algorithms and concepts Building upon the basics you will then work on three different projects to apply the concepts of machine learning following current trends and cover major algorithms as well as popular R packages

in detail These projects have been neatly divided into six different chapters covering the worlds of e commerce finance and social media which are at the very core of this data driven revolution Each of the projects will help you to understand explore visualize and derive insights depending upon the domain and algorithms Through this book you will learn to apply the concepts of machine learning to deal with data related problems and solve them using the powerful yet simple language R Style and approachThe book is an enticing journey that starts from the very basics to gradually pick up pace as the story unfolds Each concept is first defined in the larger context of things succinctly followed by a detailed explanation of their application Each topic is explained with the help of a project that solves a real real world problem involving hands on work thus giving you a deep insight into the world of machine learning

Eventually, you will no question discover a further experience and success by spending more cash. still when? accomplish you acknowledge that you require to acquire those all needs subsequently having significantly cash? Why dont you try to acquire something basic in the beginning? Thats something that will guide you to comprehend even more around the globe, experience, some places, in the manner of history, amusement, and a lot more?

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