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Umesh R Hodeghatta, Umesha Nayak



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Python Data Analysis Cookbook Ivan Idris, 2016-07-22 Over 140 practical recipes to help you make sense of your data with ease and build production ready data apps About This Book Analyze Big Data sets create attractive visualizations and manipulate and process various data types Packed with rich recipes to help you learn and explore amazing algorithms for statistics and machine learning Authored by Ivan Idris expert in python programming and proud author of eight highly reviewed books Who This Book Is For This book teaches Python data analysis at an intermediate level with the goal of transforming you from journeyman to master Basic Python and data analysis skills and affinity are assumed What You Will Learn Set up reproducible data analysis Clean and transform data Apply advanced statistical analysis Create attractive data visualizations Web scrape and work with databases Hadoop and Spark Analyze images and time series data Mine text and analyze social

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Machine Learning Essentials Alboukadel Kassambara, 2018-03-10 Discovering knowledge from big multivariate data recorded every days requires specialized machine learning techniques This book presents an easy to use practical guide in R to compute the most popular machine learning methods for exploring real word data sets as well as for building predictive models The main parts of the book include A Unsupervised learning methods to explore and discover knowledge from a large multivariate data set using clustering and principal component methods You will learn hierarchical clustering k means principal component analysis and correspondence analysis methods B Regression analysis to predict a quantitative outcome value using linear regression and non linear regression strategies C Classification techniques to predict a qualitative outcome value using logistic regression discriminant analysis naive bayes classifier and support vector machines D Advanced machine learning methods to build robust regression and classification models using k nearest neighbors methods decision tree models ensemble methods bagging random forest and boosting E Model selection methods to select automatically the best combination of predictor variables for building an optimal predictive model These include best subsets selection methods stepwise regression and penalized regression ridge lasso and elastic net regression models We also present principal component based regression methods which are useful when the data contain multiple correlated predictor variables F Model validation and evaluation techniques for measuring the performance of a predictive model G Model diagnostics for detecting and fixing a potential problems in a predictive model The book presents the basic principles of these tasks and provide many examples in R This book offers solid guidance in data mining for students and researchers Key

features Covers machine learning algorithm and implementation Key mathematical concepts are presented Short self contained chapters with practical examples *R Deep Learning Essentials* Mark Hodnett, Joshua F. Wiley, 2018-08-24

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Table of Contents R Machine Learning Essentials Uselli Michele

1. Understanding the eBook R Machine Learning Essentials Uselli Michele
 - The Rise of Digital Reading R Machine Learning Essentials Uselli Michele
 - Advantages of eBooks Over Traditional Books
2. Identifying R Machine Learning Essentials Uselli Michele
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an R Machine Learning Essentials Uselli Michele
 - User-Friendly Interface
4. Exploring eBook Recommendations from R Machine Learning Essentials Uselli Michele
 - Personalized Recommendations
 - R Machine Learning Essentials Uselli Michele User Reviews and Ratings
 - R Machine Learning Essentials Uselli Michele and Bestseller Lists
5. Accessing R Machine Learning Essentials Uselli Michele Free and Paid eBooks
 - R Machine Learning Essentials Uselli Michele Public Domain eBooks
 - R Machine Learning Essentials Uselli Michele eBook Subscription Services
 - R Machine Learning Essentials Uselli Michele Budget-Friendly Options

6. Navigating R Machine Learning Essentials Uselli Michele eBook Formats
 - ePub, PDF, MOBI, and More
 - R Machine Learning Essentials Uselli Michele Compatibility with Devices
 - R Machine Learning Essentials Uselli Michele Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of R Machine Learning Essentials Uselli Michele
 - Highlighting and Note-Taking R Machine Learning Essentials Uselli Michele
 - Interactive Elements R Machine Learning Essentials Uselli Michele
8. Staying Engaged with R Machine Learning Essentials Uselli Michele
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers R Machine Learning Essentials Uselli Michele
9. Balancing eBooks and Physical Books R Machine Learning Essentials Uselli Michele
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection R Machine Learning Essentials Uselli Michele
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine R Machine Learning Essentials Uselli Michele
 - Setting Reading Goals R Machine Learning Essentials Uselli Michele
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of R Machine Learning Essentials Uselli Michele
 - Fact-Checking eBook Content of R Machine Learning Essentials Uselli Michele
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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