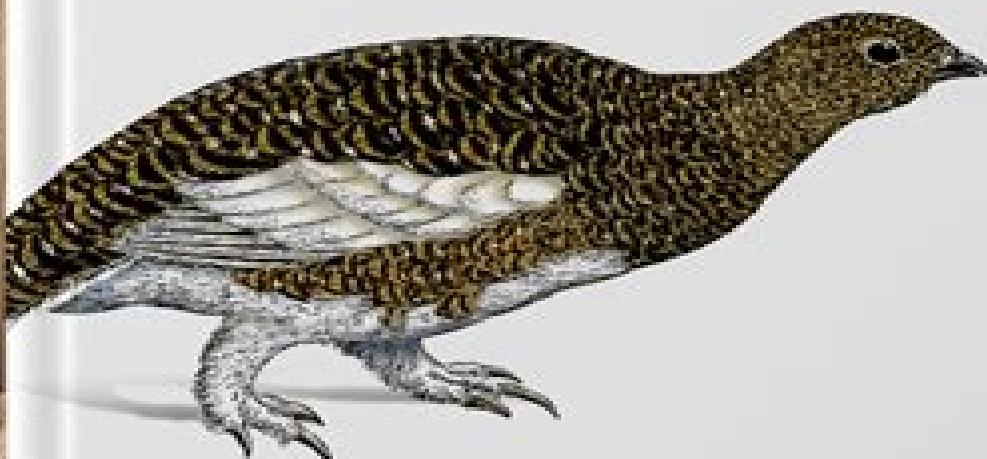


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Emmert-Streib, Salissou Moutari, Matthias Dehmer, 2022-10-24 The aim of the book is to help students become data scientists Since this requires a series of courses over a considerable period of time the book intends to accompany students from the beginning to an advanced understanding of the knowledge and skills that define a modern data scientist The book presents a comprehensive overview of the mathematical foundations of the programming language R and of its applications to data science

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**Handbook of Qualitative Research Design** Uwe Flick, 2022-03-17 Qualitative research design is continually evolving It is not only more established in disciplines beyond the traditional social sciences in which it is a standard choice but also just as impacted by the changes in what data technologies and approaches researchers are using This Handbook takes readers through the foundational theories functions strategies and approaches to qualitative research design before showcasing how it negotiates different data and research environments and produces credible actionable impact beyond the study Containing contributions from over 90 top scholars from a range of social science disciplines this Handbook is not just an anthology of different qualitative research designs and how when to use them it is a complete exploration of how and why these designs are shaped and how why and into what they are evolving This is a valuable resource for Master's and PhD level students faculty members and researchers across a wide range of disciplines such as health nursing psychology social work sociology and education Volume One Part I Concepts of Designing Designs in Qualitative Research Part 2 Theories and Epistemological Contexts of Designing Qualitative Research Part 3 Elements of Designing Qualitative Research Part 4 Basic Designs and Research Strategies in Qualitative Research Part 5 Mixing Methods in Designing Qualitative Research Volume Two Part 6 Designing Qualitative Research for Specific Kinds of Data Part 7 Designing Qualitative Online and Multimodal Research Part 8 Designing Qualitative Research for Specific Groups and Areas Part 9 Designing Qualitative Research in Disciplinary Fields Part 10 Designing Qualitative Research for Impact

**Practical Data Science Cookbook** Prabhanjan Tattar, Tony Ojeda, Sean Patrick Murphy, Benjamin Bengfort, Abhijit Dasgupta, 2017-06-29 Over 85 recipes to help you complete real world data science projects in R and Python About This Book Tackle every step in the data science pipeline and use it to acquire clean analyze and visualize your data Get beyond the theory and implement real world projects in data science using R and Python Easy to follow recipes will help you understand and implement the numerical computing concepts Who This Book Is For If you are an aspiring data scientist who wants to learn data science and numerical programming concepts through hands on real world project examples this is the book for you Whether you are brand new to data science or you are a

seasoned expert you will benefit from learning about the structure of real world data science projects and the programming examples in R and Python. What You Will Learn Learn and understand the installation procedure and environment required for R and Python on various platforms. Prepare data for analysis by implementing various data science concepts such as acquisition, cleaning and munging through R and Python. Build a predictive model and an exploratory model. Analyze the results of your model and create reports on the acquired data. Build various tree based methods and Build random forest. In Detail As increasing amounts of data are generated each year the need to analyze and create value out of it is more important than ever. Companies that know what to do with their data and how to do it well will have a competitive advantage over companies that don't. Because of this there will be an increasing demand for people that possess both the analytical and technical abilities to extract valuable insights from data and create valuable solutions that put those insights to use. Starting with the basics this book covers how to set up your numerical programming environment, introduces you to the data science pipeline and guides you through several data projects in a step by step format. By sequentially working through the steps in each chapter you will quickly familiarize yourself with the process and learn how to apply it to a variety of situations with examples using the two most popular programming languages for data analysis R and Python. Style and approach This step by step guide to data science is full of hands on examples of real world data science tasks. Each recipe focuses on a particular task involved in the data science pipeline ranging from readying the dataset to analytics and visualization.

Newsletter, 1998 *Smartfiles: An OO Approach to Data File Interoperability* Matthew Haines, Institute for Computer Applications in Science and Engineering, 1995 Abstract Data files for scientific and engineering codes typically consist of a series of raw data values whose description is buried in the programs that interact with these files. In this situation making even minor changes in the file structure or sharing files between programs interoperability can only be done after careful examination of the data files and the I/O statements of the programs interacting with this file. In short scientific data files lack self description and other self describing data techniques are not always appropriate or useful for scientific data files. By applying an object oriented methodology to data files we can add the intelligence required to improve data interoperability and provide an elegant mechanism for supporting complex evolving or multidisciplinary applications while still supporting legacy codes. As a result scientists and engineers should be able to share datasets with far greater ease simplifying multidisciplinary applications and greatly facilitating remote collaboration between scientists.

*Data Science Live Book* Pablo Casas, 2018-03-16 Welcome It's a book to learn data science, machine learning and data analysis with tons of examples and explanations around several topics like Exploratory data analysis, Data preparation, Selecting best variables, Model performance. Note: This is the Black among others using easy copy/paste pieces of code. Please note that this is not a book to learn how to program R from scratch nor how algorithms are implemented math and stats area. Who is the target audience? It's aimed to people who are Programmers and data scientists who work or want to in machine learning projects. However the

ones who don't want or don't know how to code can get some useful insights which can add value as data project analysts All the R examples are well explained in code comments No math or statistical background to understand it The book tries to be as tool independent as possible For example the decision of what to do to deal with missing or extreme values is the whether we choose R Python Julia What it changes is the how Last words To develop a critical thinking without taking any statement as the true truth it's essential in this sea of books courses videos and any technical material to learn This book is just another view in the data science perspective Hope you like it Index Exploratory data analysis Profiling The voice of the numbers Correlation and Relationship Data preparation Handling Data Types High Cardinality Variable in Descriptive Stats High Cardinality Variable in Predictive Modeling Treatment of outliers Missing Data Analysis Handling and Imputation of Considerations involving time Selecting best variables General Aspects in Selecting Best Variables Intuition The best selection The nature of the selection Improving variables Cleaning by domain knowledge Variables work in groups Correlation between input variables Keep it simple Variable selection in Clustering Selecting the best variables in practice Target profiling Assessing Model performance Knowing the Error Out of Time Validation Gain and Lift Analysis Scoring Data Appendix The magic of percentiles funModeling quick start

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