Data Science in R: A Case Studies Approach to Computational Reasoning and Problem Solving (Chapman Hall/CRC The R Series)

Deborah Nolan, Duncan Temple Lang
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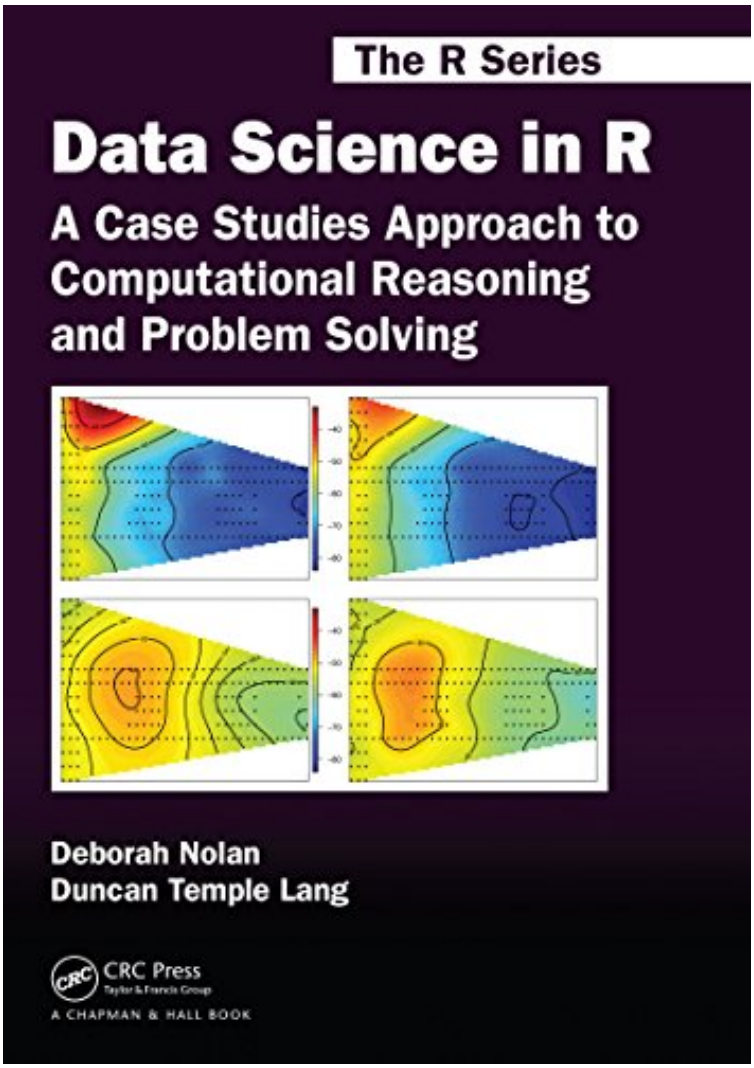

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Deborah Nolan, Duncan Temple Lang : Data Science in R: A Case Studies Approach to Computational Reasoning and Problem Solving (Chapman Hall/CRC The R Series) before purchasing it in order to gage whether or not it would be worth my time, and all praised Data Science in R: A Case Studies Approach to Computational Reasoning and Problem Solving (Chapman Hall/CRC The R Series):

3 of 3 people found the following review helpful. great book, but not for beginnersBy Maike HolthuijzenI am working on an MS in statistics and started working through this book. The examples are good and provide step-by-step guidance, BUT this book is not for beginners. If you have at least an intermediate knowledge of R and some statistics

background, you can follow the book, and if you are like me, find it quite useful! It starts off with a section on regular expressions, which would be rather difficult for most beginners. For anyone who wants real life examples with messy data, this is an excellent book!4 of 11 people found the following review helpful. Five StarsBy PhilGVery well thought out examples.

Effectively Access, Transform, Manipulate, Visualize, and Reason about Data and ComputationData Science in R: A Case Studies Approach to Computational Reasoning and Problem Solving illustrates the details involved in solving real computational problems encountered in data analysis. It reveals the dynamic and iterative process by which data analysts approach a problem and reason about different ways of implementing solutions. The bookrsquo;s collection of projects, comprehensive sample solutions, and follow-up exercises encompass practical topics pertaining to data processing, including: Non-standard, complex data formats, such as robot logs and email messagesText processing and regular expressionsNewer technologies, such as Web scraping, Web services, Keyhole Markup Language (KML), and Google EarthStatistical methods, such as classification trees, k-nearest neighbors, and naiuml;ve BayesVisualization and exploratory data analysisRelational databases and Structured Query Language (SQL)SimulationAlgorithm implementationLarge data and efficiencySuitable for self-study or as supplementary reading in a statistical computing course, the book enables instructors to incorporate interesting problems into their courses so that students gain valuable experience and data science skills. Students learn how to acquire and work with unstructured or semistructured data as well as how to narrow down and carefully frame the questions of interest about the data.Blending computational details with statistical and data analysis concepts, this book provides readers with an understanding of how professional data scientists think about daily computational tasks. It will improve readersrsquo; computational reasoning of real-world data analyses.

About the AuthorDeborah Nolan holds the Zaffaroni Family Chair in Undergraduate Education at the University of California, Berkeley. She is a fellow of the American Statistical Association and the Institute of Mathematical Statistics. Her research has involved the empirical process, high-dimensional modeling, and, more recently, technology in education and reproducible research. Duncan Temple Lang is the director of the Data Science Initiative at the University of California, Davis. He has been involved in the development of R and S for 20 years and has developed over 100 R packages. His research focuses on statistical computing, data technologies, meta-computing, reproducibility, and visualization.