Data Science in R: A Case Studies Approach to Computational Reasoning and Problem Solving

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Apple Academic Press Inc., Canada, 2015. Paperback. Book Condition: New. 257 x 175 mm. Language: English . Brand New Book. Effectively Access, Transform, Manipulate, Visualize, and Reason about Data and Computation Data 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 book 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 messages * Text processing and regular expressions * Newer technologies, such as Web scraping, Web services, Keyhole Markup Language (KML), and Google Earth * Statistical methods, such as classification trees, k-nearest neighbors, and naive Bayes * Visualization and exploratory data analysis * Relational databases and Structured Query Language (SQL) * Simulation * Algorithm implementation * Large data and efficiency Suitable 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...

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