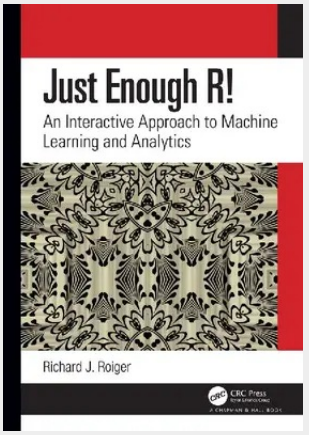
Roiger

Just Enough R!

An Interactive Approach to Machine Learning and Analytics



Just Enough R! An Interactive Approach to Machine Learning and Analytics presents just enough of the R language, machine learning algorithms, statistical methodology, and analytics for the reader to learn how to find interesting structure in data. The approach might be called "seeing then doing" as it first gives step-by-step explanations using simple, understandable examples of how the various machine learning algorithms work independent of any programming language. This is followed by detailed scripts written in R that apply the algorithms to solve nontrivial problems with real data. The script code is provided, allowing the reader to execute the scripts as they study the explanations given in the text. Features - Gets you quickly using R as a problem-solving tool - Uses RStudio's integrated development environment - Shows how to interface R with SQLite - Includes examples using R's Rattle graphical user interface - Requires no prior knowledge of R, machine learning, or computer programming - Offers over 50 scripts written in R, including several problem-solving templates that, with slight modification, can be used again and again - Covers the most popular machine learning techniques, including ensemble-based methods and logistic regression - Includes end-of-chapter exercises, many of which can be solved by modifying existing scripts - Includes datasets from several areas, including business, health and medicine, and science About the Author Richard J. Roiger is a professor emeritus at Minnesota State University, Mankato, where he taught and performed research in the Computer and Information Science Department for over 30 years.

The main purpose of the text is to present the student with just enough of the R language, machine learning algorithms, and statistical methodology to set them on their way to a career in data science and machine learning.It is for a beginning course in machine learning, data mining & analytics, data science, or general data analysis.

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