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Julia Cookbook

Jalem Raj Rohit

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Key Features

- Follow a practical approach to learn Julia programming the easy way
- Get an extensive coverage of Julia's packages for statistical analysis
- This recipe-based approach will help you get familiar with the key concepts in Julia

Book Description

Want to handle everything that Julia can throw at you and get the most of it every day? This practical guide to programming with Julia for performing numerical computation will make you more productive and able work with data more efficiently. The book starts with the main features of Julia to help you quickly refresh your knowledge of functions, modules, and arrays. We'll also show you how to utilize the Julia language to identify, retrieve, and transform data sets so you can perform data analysis and data manipulation.

Later on, you'll see how to optimize data science programs with parallel computing and memory allocation. You'll get familiar with the concepts of package development and networking to solve numerical problems using the Julia platform.

This book includes recipes on identifying and classifying data science problems, data modelling, data analysis, data manipulation, meta-programming, multidimensional arrays, and parallel computing. By the end of the book, you will acquire the skills to work more effectively with your data.

What you will learn

- Extract and handle your data with Julia
- Uncover the concepts of metaprogramming in Julia
- Conduct statistical analysis with StatsBase.jl and Distributions.jl
- Build your data science models
- Find out how to visualize your data with Gadfly
- Explore big data concepts in Julia

About the Author

Jalem Raj Rohit is an IIT Jodhpur graduate with a keen interest in machine learning, data science, data analysis, computational statistics, and natural language processing (NLP). Being just 22 years of age, Rohit heads the Data Science practices in a data science consulting firm, Kayako.

He is part of the Julia project, where he develops data science models and uploads codes to their repository. As well as the Julia project, Raj is also a Mozilla contributor and volunteer, and has interned at Scimergent Analytics where he learned the dark arts of data mining, analytics, and NLP.

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Gary Clark:

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