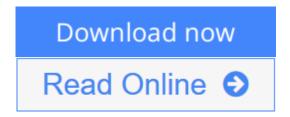# Scala Data Analysis Cookbook

By Arun Manivannan

Scala Data Analysis Cookbook By Arun Manivannan

Navigate the world of data analysis, visualization, and machine learning with over 100 hands-on Scala recipes

About This Book

- Implement Scala in your data analysis using features from Spark, Breeze, and Zeppelin
- Scale up your data anlytics infrastructure with practical recipes for Scala machine learning
- Recipes for every stage of the data analysis process, from reading and collecting data to distributed analytics

Who This Book Is For

This book shows data scientists and analysts how to leverage their existing knowledge of Scala for quality and scalable data analysis.

What You Will Learn

- Familiarize and set up the Breeze and Spark libraries and use data structures
- Import data from a host of possible sources and create dataframes from CSV
- Clean, validate and transform data using Scala to pre-process numerical and string data
- Integrate quintessential machine learning algorithms using Scala stack
- Bundle and scale up Spark jobs by deploying them into a variety of cluster managers
- Run streaming and graph analytics in Spark to visualize data, enabling exploratory analysis

In Detail

This book will introduce you to the most popular Scala tools, libraries, and frameworks through practical recipes around loading, manipulating, and preparing your data. It will also help you explore and make sense of your data

using stunning and insightfulvisualizations, and machine learning toolkits.

Starting with introductory recipes on utilizing the Breeze and Spark libraries, get to grips withhow to import data from a host of possible sources and how to pre-process numerical, string, and date data. Next, you'll get an understanding of concepts that will help you visualize data using the Apache Zeppelin and Bokeh bindings in Scala, enabling exploratory data analysis. iscover how to program quintessential machine learning algorithms using Spark ML library. Work through steps to scale your machine learning models and deploy them into a standalone cluster, EC2, YARN, and Mesos. Finally dip into the powerful options presented by Spark Streaming, and machine learning for streaming data, as well as utilizing Spark GraphX.

Style and approach

This book contains a rich set of recipes that covers the full spectrum of interesting data analysis tasks and will help you revolutionize your data analysis skills using Scala and Spark.

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Editorial Review

About the Author

Arun Manivannan

Arun Manivannan has been an engineer in various multinational companies, tier-1 financial institutions, and start-ups, primarily focusing on developing distributed applications that manage and mine data. His languages of choice are Scala and Java, but he also meddles around with various others for kicks. He blogs at http://rerun.me. Arun holds a master's degree in software engineering from the National University of Singapore. He also holds degrees in commerce, computer applications, and HR management. His interests and education could probably be a good dataset for clustering.

Users Review

From reader reviews:

Mary Crouch:

In this 21st one hundred year, people become competitive in each way. By being competitive today, people have do something to make all of them survives, being in the middle of the crowded place and notice by simply surrounding. One thing that sometimes many people have underestimated it for a while is reading. Yep, by reading a book your ability to survive increase then having chance to stand up than other is high. For you personally who want to start reading a book, we give you this specific Scala Data Analysis Cookbook book as beginning and daily reading book. Why, because this book is usually more than just a book.

Kathryn Kern:

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Michael Roberts:

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