Big Data Analytics with R and Hadoop

By Vignesh Prajapati

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If you're an R developer looking to harness the power of big data analytics with Hadoop, then this book tells you everything you need to integrate the two. You'll end up capable of building a data analytics engine with huge potential.

Overview

- Write Hadoop MapReduce within R
- Learn data analytics with R and the Hadoop platform
- Handle HDFS data within R
- Understand Hadoop streaming with R
- Encode and enrich datasets into R

In Detail

Big data analytics is the process of examining large amounts of data of a variety of types to uncover hidden patterns, unknown correlations, and other useful information. Such information can provide competitive advantages over rival organizations and result in business benefits, such as more effective marketing and increased revenue. New methods of working with big data, such as Hadoop and MapReduce, offer alternatives to traditional data warehousing.

Big Data Analytics with R and Hadoop is focused on the techniques of integrating R and Hadoop by various tools such as RHIPE and RHadoop. A powerful data analytics engine can be built, which can process analytics algorithms over a large scale dataset in a scalable manner. This can be implemented through data analytics operations of R, MapReduce, and HDFS of Hadoop.

You will start with the installation and configuration of R and Hadoop. Next, you will discover information on various practical data analytics examples with R and Hadoop. Finally, you will learn how to import/export from various data sources to R. Big Data Analytics with R and Hadoop will also give you an easy understanding of the R and Hadoop connectors RHIPE, RHadoop, and Hadoop streaming.

What you will learn from this book

- Integrate R and Hadoop via RHIPE, RHadoop, and Hadoop streaming
- Develop and run a MapReduce application that runs with R and Hadoop
- Handle HDFS data from within R using RHIPE and RHadoop
- Run Hadoop streaming and MapReduce with R
- Import and export from various data sources to R

Approach

Big Data Analytics with R and Hadoop is a tutorial style book that focuses on all the powerful big data tasks that can be achieved by integrating R and Hadoop.

Who this book is written for

This book is ideal for R developers who are looking for a way to perform big data analytics with Hadoop. This book is also aimed at those who know Hadoop and want to build some intelligent applications over Big data with R packages. It would be helpful if readers have basic knowledge of R.

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Editorial Review

About the Author

Vignesh Prajapati

Vignesh Prajapati, from India, is a Big Data enthusiast, a Pingax (**www.pingax.com**) consultant and a software professional at Enjay. He is an experienced ML Data engineer. He is experienced with Machine learning and Big Data technologies such as R, Hadoop, Mahout, Pig, Hive, and related Hadoop components to analyze datasets to achieve informative insights by data analytics cycles.

He pursued B.E from Gujarat Technological University in 2012 and started his career as Data Engineer at Tatvic. His professional experience includes working on the development of various Data analytics algorithms for Google Analytics data source, for providing economic value to the products. To get the ML in action, he implemented several analytical apps in collaboration with Google Analytics and Google Prediction API services. He also contributes to the R community by developing the RGoogleAnalytics' R library as an open source code Google project and writes articles on Data-driven technologies.

Vignesh is not limited to a single domain; he has also worked for developing various interactive apps via various Google APIs, such as Google Analytics API, Realtime API, Google Prediction API, Google Chart API, and Translate API with the Java and PHP platforms. He is highly interested in the development of open source technologies.

Vignesh has also reviewed the Apache Mahout Cookbook for Packt Publishing. This book provides a fresh, scope-oriented approach to the Mahout world for beginners as well as advanced users. Mahout Cookbook is specially designed to make users aware of the different possible machine learning applications, strategies, and algorithms to produce an intelligent as well as Big Data application.

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