



Mastering Scala Machine Learning

By Alexander Kozlov



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Advance your skills in efficient data analysis and data processing using the powerful tools of Scala, Spark, and Hadoop

About This Book

- This is a primer on functional-programming-style techniques to help you efficiently process and analyze all of your data
- Get acquainted with the best and newest tools available such as Scala, Spark, Parquet and MLlib for machine learning
- Learn the best practices to incorporate new Big Data machine learning in your data-driven enterprise to gain future scalability and maintainability

Who This Book Is For

Mastering Scala Machine Learning is intended for enthusiasts who want to plunge into the new pool of emerging techniques for machine learning. Some familiarity with standard statistical techniques is required.

What You Will Learn

- Sharpen your functional programming skills in Scala using REPL
- Apply standard and advanced machine learning techniques using Scala
- Get acquainted with Big Data technologies and grasp why we need a functional approach to Big Data
- Discover new data structures, algorithms, approaches, and habits that will allow you to work effectively with large amounts of data
- Understand the principles of supervised and unsupervised learning in machine learning
- Work with unstructured data and serialize it using Kryo, Protobuf, Avro, and AvroParquet
- Construct reliable and robust data pipelines and manage data in a data-driven enterprise
- Implement scalable model monitoring and alerts with Scala

In Detail

Since the advent of object-oriented programming, new technologies related to Big Data are constantly popping up on the market. One such technology is Scala, which is considered to be a successor to Java in the area of Big Data by many, like Java was to C/C++ in the area of distributed programming.

This book aims to take your knowledge to next level and help you impart that knowledge to build advanced applications such as social media mining, intelligent news portals, and more. After a quick refresher on functional programming concepts using REPL, you will see some practical examples of setting up the development environment and tinkering with data. We will then explore working with Spark and MLlib using k-means and decision trees.

Most of the data that we produce today is unstructured and raw, and you will learn to tackle this type of data with advanced topics such as regression, classification, integration, and working with graph algorithms. Finally, you will discover at how to use Scala to perform complex concept analysis, to monitor model performance, and to build a model repository. By the end of this book, you will have gained expertise in performing Scala machine learning and will be able to build complex machine learning projects using Scala.

Style and approach

This hands-on guide dives straight into implementing Scala for machine learning without delving much into mathematical proofs or validations. There are ample code examples and tricks that will help you sail through using the standard techniques and libraries. This book provides practical examples from the field on how to correctly tackle data analysis problems, particularly for modern Big Data datasets.

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Editorial Review

About the Author

Alex Kozlov

Alex Kozlov is a multidisciplinary big data scientist. He came to Silicon Valley in 1991, got his Ph.D. from Stanford University under the supervision of Prof. Daphne Koller and Prof. John Hennessy in 1998, and has been around a few computer and data management companies since. His latest stint was with Cloudera, the leader in Hadoop, where he was one of the early employees and ended up heading the solution architects group on the West Coast. Before that, he spent time with an online advertising company, Turn, Inc.; and before that, he had the privilege to work with HP Labs researchers at HP Inc., and on data mining software at SGI, Inc. Currently, Alexander is the chief solutions architect at an enterprise security startup, E8 Security, where he came to understand the intricacies of catching bad guys in the Internet universe. On the non-professional side, Alexander lives in Sunnyvale, CA, together with his beautiful wife, Oxana, and other important family members, including three daughters, Lana, Nika, and Anna, and a cat and dog. His family also included a hamster and a fish at one point. Alex is an active participant in Silicon Valley technology groups and meetups, and although he is not an official committer of any open source projects, he definitely contributed to many of them in the form of code or discussions. Alexander is an active coder and publishes his open source code at <https://github.com/alexvk>. Other information can be looked up on his LinkedIn page at <https://www.linkedin.com/in/alexvk>.

Users Review

From reader reviews:

Steven Bemis:

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Patricia Rhee:

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Keely Charles:

Mastering Scala Machine Learning can be one of your basic books that are good idea. All of us recommend that straight away because this publication has good vocabulary that may increase your knowledge in words, easy to understand, bit entertaining but nevertheless delivering the information. The article author giving his/her effort to put every word into joy arrangement in writing Mastering Scala Machine Learning yet doesn't forget the main point, giving the reader the hottest as well as based confirm resource facts that maybe you can be one of it. This great information may drawn you into new stage of crucial pondering.

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