Machine Learning with Spark - Tackle Big Data with Powerful Spark Machine Learning Algorithms

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Key Features

- Follow real-world examples to learn how to develop your own machine learning systems with Spark
- A practical tutorial with real-world use cases allowing you to develop your own machine learning systems with Spark
- Combine various techniques and models into an intelligent machine learning system
- Explore and use Spark s powerful range of features to load, analyze, clean, and your data

Book Description

Apache Spark is a framework for distributed computing that is designed from the ground up to be optimized for low latency tasks and in-memory data storage. It is one of the few frameworks for parallel computing that combines speed, scalability, in-memory processing, and fault tolerance with ease of programming and a flexible, expressive, and powerful API design.

This book guides you through the basics of Spark's API used to load and process data and prepare the data to use as input to the various machine learning models. There are detailed examples and real-world use cases for you to explore common machine learning models including recommender systems, classification, regression, clustering, and dimensionality reduction. You will cover advanced topics such as working with large-scale text data, and methods for online machine learning and model evaluation using Spark Streaming.

What you will learn

- Create your first Spark program in Scala, Java, and Python
- Set up and configure a development environment for Spark on your own computer, as well as on Amazon EC2
- Access public machine learning datasets and use Spark to load, process, clean, and transform data
- Use Spark's machine learning library to implement programs utilizing well-known machine learning models including collaborative filtering, classification, regression, clustering, and dimensionality reduction
- Write Spark functions to evaluate the performance of your machine learning models
- Deal with large-scale text data, including feature extraction and using text data as input to your machine learning models
- Explore online learning methods and use Spark Streaming for online learning and model evaluation

About the Author

Nick Pentreath is a member of the Apache Spark Project Management Committee. He has has a background in financial markets, machine learning, and software development, including experience as a research scientist at the online ad targeting start-up Cognitive Match Limited in London and leading the Data Science and Analytics team at Mxit, Africa's largest social network. He is also one of the cofounders of Graphflow, a big data and machine learning company focused on user-centric recommendations and customer intelligence.

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