Spark is a powerful technology that meets that need. You can, for example, use Spark to perform low latency computations through the use of efficient caching and iterative algorithms; leverage the features of its sql for easy and interactive data analysis; employ its fast batch processing and low latency features to process your real-time data and business intelligence workload; and so on.

Spark has emerged into a very important open-source project for data processing. It can rapidly perform operations on these large-scale data applications, this book describes techniques that can reduce data infrastructure costs and developer hours. Not only will you gain a more comprehensive understanding of Spark, you’ll also learn how to make it sing. With this book, you’ll explore: How Spark SQL’s new interfaces improve performance over SQL’s RDD data representations; How Spark SQL’s new unstructured text analytics provides an introduction to other big data technologies that are commonly used along with Spark, like Hive, Avro, Kafka and so on. The book is self-sufficient; all the technologies that you need to know to use Spark are covered. The only thing that you are expected to know is Python. If you want to learn Spark, you need to learn Python (and some Hadoop, which is covered in the book). Spark is simple: it’s a very user-friendly programming language, and the program that underlies Spark. You’ll learn the basics of functional programming in Scala, so that you can write Spark applications. This book provides an introduction to Spark and related big-data technologies. It covers Spark core and its add-on libraries, including Spark SQL, Spark Streaming, GraphX, and MLlib. Big Data Analytics with Spark is therefore written for busy professionals who prefer learning a new technology from a consolidated source that is easy to follow and jargon-free.

Big Data Analytics with Spark is a step-by-step guide for learning Spark, which is an open-source and fast and general-purpose cluster computing framework for large-scale data processing. Topics that are covered in this book include the Java and Scala programming languages, the Spark core system, Spark Streaming, GraphX, and MLlib. This book provides an introduction to Spark and related big-data technologies. It covers Spark core and its add-on libraries, including Spark SQL, Spark Streaming, GraphX, and MLlib. Big Data Analytics with Spark is therefore written for busy professionals who prefer learning a new technology from a consolidated source that is easy to follow and jargon-free.

Before you can build analytics tools to gain quick insights, you first need to know how to process data in real time. With this practical guide, developers familiar with Stream Processing with Apache Spark by Frank in a step-by-step manner. The examples vary in complexity, and you can move through them at your own pace. Apache Spark is amazing when everything clicks. But if you haven’t seen the performance improvements you expected, or still don’t feel confident enough to use Spark in production, this book is for you. Authors Holden Karau and Rachel Warren demonstrate performance optimizations to help your Spark queries run faster and handle larger workloads. This book teaches you the basics of Spark SQL, Spark Streaming, Spark GraphX, and Spark MLlib, and includes hands-on projects to help you master Spark. In addition, this book will help you become a much sought-after Spark expert. Spark is one of the hottest Big Data technologies. The amount of data generated today by devices, applications and users is exploding. Therefore, there is a critical shortage of people with big data expertise, so companies are willing to pay top dollar for skills in areas like Spark and Scala. So read this book and absorbing its principles will provide a boost—possibly a big boost—to your career.

Big Data Analytics with Spark - Mohammed Guller - 2015-12-29

Big Data Analytics with Spark is a step-by-step guide for learning Spark, which is an open-source and fast and general-purpose cluster computing framework for large-scale data processing. Topics that are covered in this book include the Java and Scala programming languages, the Spark core system, Spark Streaming, GraphX, and MLlib. This book provides an introduction to Spark and related big-data technologies. It covers Spark core and its add-on libraries, including Spark SQL, Spark Streaming, GraphX, and MLlib. Big Data Analytics with Spark is therefore written for busy professionals who prefer learning a new technology from a consolidated source that is easy to follow and jargon-free.

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advanced Spark programming, and Spark machine learning. You’ll learn how to efficiently manage all forms of data with Spark: streaming, structured, semi-structured, and unstructured. Throughout, concise topic overviews quickly get you up to speed, and extensive hands-on exercises prepare you to solve real problems covering big data analytics, machine learning, and more. All code examples are self-contained, documented, and optimized for performance and best practices.

Beginning Apache Spark Using Python - Jeffrey Aven - 2018-06-18

This book teaches you how to leverage Spark, together with its extensions, subprojects, and wider ecosystem. Aven combines a language-agnostic introduction to foundational Spark concepts with extensive programming examples utilizing the popular and intuitive Python Spark development environment. This guide’s focus on Python makes it widely accessible to large data analytics practitioners, including data scientists and analytics engineers, who are already familiar with Python and Spark. The book is divided into four parts: the complete features of Apache Spark; integration with other tools; how to solve complex business problems; and optimization of where Pig is used in big data analytics. The book is also recommended for people who want to start getting into the analytics field, as it provides a strong foundation.

Beginning Apache Spark Using Azure DataBricks - Robert Jilsson - 2020-06-11

This book teaches you how to use Apache Spark to develop lightweight big data applications easily and quickly. This book shows you many optimization techniques and covers every context where Pig is used in big data analytics, on billions of rows at a fraction of a cost or free. This book is divided into four parts: the complete features of Apache Pig; integration with other tools; how to solve complex business problems; and optimization of where Pig is used in big data analytics. This book is also recommended for people who want to start getting into the analytics field, as it provides a strong foundation.

The Natural Language Processing with Spark NLP Techniques - Alex Thomas - 2020-06-25

If you want to build an enterprise-quality application that uses natural language text but aren’t sure where to begin or what tools to use, this practical guide will help you get started. Building NLP applications with Spark NLP explores the full range of NLP applications using deep learning and the Apache Spark NLP library. Through concrete examples, practical and theoretical explanations, and hands-on exercises for every step, you’ll learn how to develop effective NLP applications with Spark NLP. You’ll explore the benefits of using Spark NLP engines that leverage the power of the cloud. Get started with Databricks using SQL and Python in either Microsoft Azure or AWS. Understand the underlying technology, and how the cloud and Apache Spark fit into the bigger picture. See how these tools are used in the real world. Build NLP applications, on billions of rows at a fraction of a cost or free. This book is divided into four parts: the complete features of Apache Spark and Azure Databricks. The book is also recommended for people who want to start getting into the analytics field, as it provides a strong foundation.

Apache Spark in Action - Julian de Ruiter - 2021-04-05

This book teaches you how to use Apache Spark to develop lightweight big data applications easily and quickly. This book shows you many optimization techniques and covers every context where Pig is used in big data analytics, on billions of rows at a fraction of a cost or free. This book is divided into four parts: the complete features of Apache Pig; integration with other tools; how to solve complex business problems; and optimization of where Pig is used in big data analytics. This book is also recommended for people who want to start getting into the analytics field, as it provides a strong foundation.

Advanced Data Analytics with Spark Using Python - Jeffrey Aven - 2018-06-18

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Solve Data Analytics Problems with Spark, PySpark, and Related Open Source Tools Spark is at the heart of today’s Big Data revolution, helping data professionals to simplify and speed up their work. This book teaches you how to use Apache Spark to develop lightweight big data applications easily and quickly. This book shows you many optimization techniques and covers every context where Pig is used in big data analytics, on billions of rows at a fraction of a cost or free. This book is divided into four parts: the complete features of Apache Pig; integration with other tools; how to solve complex business problems; and optimization of where Pig is used in big data analytics. This book is also recommended for people who want to start getting into the analytics field, as it provides a strong foundation.

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This open access book is part of the LAMBDA Project (Learning, Applying, Multiplying Big Data Analytics), funded by the European Union, GA No. 809965. Data professional audiences following continuous education short courses, and to researchers from diverse areas following self-study courses. Basic skills in computer science, mathematics, and statistics are required.

Learning PySpark - Tomaz Drabec - 2017-02-02

Big Data processing and analysis at scale using the combined powers of Python and Spark 2.0 About This Book Learn how and why you can use Python to process data and build machine learning models in Apache Spark 2.0 Develop and deploy efficient, scalable real-time Spark applications Take your understanding of using Spark with Python to the next level with this jump start guide Who Is This Book For If you are a Python developer who wants to learn about the Apache Spark 2.0 ecosystem, this book is for you. A firm understanding of Python is expected to get the best out of the book. Familiarity with Spark would be useful, but is not mandatory. What You Will Learn About Apache Spark and the Spark 2.0 architecture Build and interact with Spark DataFrames using Spark SQL Learn how to solve and deep learning problems using GraphFrames and TensorFlow respectively Read, transform, and understand data and use it to train machine learning models Explore and understand the benefits of PySpark for big data processing and analysis. You will also learn how to develop and deploy efficient, scalable real-time Spark applications to a cluster in Detail how to set up a Python environment for Spark You will get familiar with the modules available in PySpark. You will learn how to abstract data with RDDs and DataFrames and understand the streaming capabilities of PySpark using MLlib and ML, graph processing using GraphFrames, and polyglot persistence using Blazr. Finally, you will learn how to deploy your applications to the cloud using the spark-submit command. Why Should You Read This Book If you are a Python developer, you can use this book to understand the key ideas and techniques for processing big graph data at scale, with practical examples that will ensure an overall understanding of the concepts of Spark.

Apache Spark - Srini Penchala - 2015-09-10

Style and approach A step-by-step guide that will walk you through the key ideas and techniques for processing big graph data at scale, with practical examples that will ensure an overall understanding of the concepts of Spark.

Knowledge Graphs and Big Data Processing - Valentine Jasen - 2020-01-01

In this open access book is part of the LAMBDA Project (Learning, Applying, Multiplying Big Data Analytics), funded by the European Union, GA No. 809965. Data professional audiences following continuous education short courses, and to researchers from diverse areas following self-study courses. Basic skills in computer science, mathematics, and statistics are required.

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Analytics involves applying algorithmic processes to derive insights. Nowadays it is used in many industries to allow organizations and companies to make better Data Pipelines and ETL jobs should be efficient and scalable to handle the massive amount of data generated every day. This book will teach you how to design and implement effective data processing solutions that can be used to handle these vast amounts of data. You will learn about the process of data cleaning, data mining, knowledge discovery, and others. This book is intended to introduce some of the definitions, methods, tools, frameworks, and solutions for big data processing. You will gain knowledge about data science, machine learning, data engineering, and data modeling. It will also cover the use of built-in Spark data types and methods, and practical applications. Each chapter in this book addresses some pertinent aspect of the data processing chain, with a specific focus on understanding Enterprise Knowledge Graphs, Semantic Big Data Architectures, and Smart Data Analytics solutions. This book is addressed to graduate students from technical disciplines, to professionals who are involved in data science, data analysis, and data engineering short courses, and to researchers from diverse areas following self-study courses. Basic skills in computer science, mathematics, and statistics are required.

Learn to use Python to process data and build machine learning models in Apache Spark 2.0 Develop and deploy efficient, scalable real-time Spark applications Take your understanding of using Spark with Python to the next level with this jump start guide Who Is This Book For If you are a Python developer who wants to learn about the Apache Spark 2.0 ecosystem, this book is for you. A firm understanding of Python is expected to get the best out of the book. Familiarity with Spark would be useful, but is not mandatory. What You Will Learn About Apache Spark and the Spark 2.0 architecture Build and interact with Spark DataFrames using Spark SQL Learn how to solve and deep learning problems using GraphFrames and TensorFlow respectively Read, transform, and understand data and use it to train machine learning models Explore and understand the benefits of PySpark for big data processing and analysis. You will also learn how to develop and deploy efficient, scalable real-time Spark applications to a cluster in Detail how to set up a Python environment for Spark You will get familiar with the modules available in PySpark. You will learn how to abstract data with RDDs and DataFrames and understand the streaming capabilities of PySpark using MLlib and ML, graph processing using GraphFrames, and polyglot persistence using Blazr. Finally, you will learn how to deploy your applications to the cloud using the spark-submit command. Why Should You Read This Book If you are a Python developer, you can use this book to understand the key ideas and techniques for processing big graph data at scale, with practical examples that will ensure an overall understanding of the concepts of Spark.
An introduction to the Apache Spark 2.x ecosystem, followed by explaining how to install and configure Spark, and refreshes the Java concepts that will be useful to you any time.

Apache Spark 2.x for Java Developers - Sourav Gulati - 2017-07-26

Knowledge of Apache Spark.

How to implement components using the Java language. It is a unique blend of theory and practical examples, and is written in a way that will gradually build your framework in Java to build fast, real-time applications. Style and approach This practical guide teaches readers the fundamentals of the Apache Spark framework and graph processing with GraphX, all using various Java packages. By the end of the book, you will have a solid foundation in implementing components in the Spark environment, and work with Spark SQL. Moving on, you will perform near-real-time processing with Spark streaming, Machine Learning analytics with Spark MLlib, and use Apache Spark to analyze graphs and work with Spark graphs. The book covers preparing your data for analysis, training machine learning models, and visualizing the final data.

Style and approach This comprehensive book is a perfect blend of theory and hands-on examples in Python which can be used for your reference at any time.

Hadoop Data Science Platform and Python Machine Learning - Frank Kane - 2017-07-31

This book covers the full Apache Spark platform, including the Spark SQL framework, Spark Streaming, Spark Machine Learning, and machine learning libraries.

Learn SQL schema creation and the analysis of structured data using various SQL functions including Windowing functions in the Spark SQL Library Explore Spark SQL’s performance and scalability features through various use cases Learn how to make use of the Spark SQL’s DataFrame/Dataset API to manipulate and transform data Explore advanced data analysis techniques using Spark SQL, such as Bayesian methods and K-means clustering in a way that anybody can understand them Based on Frank’s successful data science course, Hands-On Data Science and Python Machine Learning, this book will show you how you can implement various functionalities of the Apache Spark framework in Java, without stepping out of your comfort zone. The book starts with an introduction to the Apache Spark 2.x ecosystem, followed by explaining how to install and configure Spark, and refreshes the Java concepts that will be useful to you any time.

Unleash the data processing and analytics capability of Apache Spark with the language of choice: Java About This Book Perform big data processing with Apache Spark and the GraphX graph processing API. This example-based tutorial then teaches you how to configure GraphX and how to use it interactively. Along the way, you’ll collect practical techniques for enhancing applications and applying machine learning algorithms to graph data. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology GraphX is a powerful graph processing API for the Apache Spark analytics engine (also known as the Spark graph engine) that lets you draw insights from large datasets. GraphX provides you unprecedented scalability and capacity for running massively parallel and machine learning algorithms. About the Book Spark SQL in Action begins with the big picture of what graphs can be used for. It then delves into the relationship between graphs and graph algorithms, and data, and then explores the problems and possibilities of implementing graph algorithms and architecting graph processing pipelines. Along the way, you’ll collect practical techniques for enhancing applications and applying machine learning algorithms to graph data. Style and approach This book is a hands-on guide to designing, building, and deploying Spark SQL-centric production applications at scale. Learning Spark SQL - Aurobindo Sarkar - 2017-09-07

This book will show you how to use Apache Spark in a web-scale way, by developing an understanding of its architecture, and by taking you on a journey to master the workflow required to use Apache Spark in the real world. You will learn SQL schema creation and the analysis of structured data using various SQL functions including Windowing functions in the Spark SQL Library. You will explore Spark SQL’s performance and scalability features through various use cases. You will also learn how to make use of the Spark SQL’s DataFrame/Dataset API to manipulate and transform data. You will learn how to make use of the Spark SQL’s performance and scalability features through various use cases. You will also learn how to make use of the Spark SQL’s DataFrame/Dataset API to manipulate and transform data. You will also learn how to make use of the Spark SQL’s performance and scalability features through various use cases. You will also learn how to make use of the Spark SQL’s DataFrame/Dataset API to manipulate and transform data. You will also learn how to make use of the Spark SQL’s performance and scalability features through various use cases. You will also learn how to make use of the Spark SQL’s DataFrame/Dataset API to manipulate and transform data.
learn and even implement HDInsight right away, we focus on a specific use case that applies to almost any organization and demonstrate a process that you can follow

**Programming in Scala** - Martin Odersky - 2008-01-01

Provides an introduction to the programming language for the Java Platform.

**Programming in Scala** - Martin Odersky - 2008-01-01

Presents an introduction to the new programming language for the Java Platform.

**Advanced Analytics with Spark** - Sandy Ryza - 2014-05-02

In this practical book, Four Choudata scientists present a set of well-formed patterns for performing large-scale data analysis with Spark. The authors bring you an end-to-end view of the Spark ecosystem, and then dive into patterns that apply common techniques—classification, collaborative filtering, and anomaly detection among others—to fields such as genomic data analysis and scientific computing, and even machine learning. Through the lens of these patterns, you’ll find these patterns useful for working on your own data applications. Patterns include: Recomending music and the Aquilincorah scribble data set Predicting forest cover with decision trees Analyzing traffic in network trafic with K-Means clustering Understanding Wikipedia with Latent Semantic Analysis Analyzing co-occurrences networks with Graphx Temporal and geographic data analysis on the New York City Taxi trips data Estimating financial risk through Monte Carlo simulation Analyzing genomic data and the BQG project Analyzing neuroimaging data with PyPak and Thundert.

**Python for Geeks** - Muhammad Afzal - 2021-10-20

Take your Python skills to the next level to develop scalable, real-world applications for local as well as cloud deployment Key Features All Code examples have been tested with Python 3.7 and Python 3.8 and are expected to work with any future 3.x release Learn how to build modular and object-oriented applications in Python Discover how to use advanced Python techniques for the cloud and clusters Book Description Python is a multipurpose language that can be used for multiple purposes. Python for Geeks will teach you how to advance in your career with the help of expert tips and tricks. You’ll start by exploring the different ways of using Python in your daily life, before diving into advanced topics such as object-oriented programming, machine learning, and more. In this book, you’ll learn how to create elegant designs by modularizing a Python project and learn best practices and design patterns for using Python. You’ll also discover other ways of creating an elegant design by modulating a Python project and learn best practices and design patterns for using Python. You’ll also discover other ways of creating an elegant design by modulating a Python project and learn best practices and design patterns for using Python.

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Seven Databases in Seven Weeks - Luc Perkins - 2018-04-05

Data is getting bigger and more complex by the day, and so are your choices in handling it. Explore some of the most cutting-edge databases available - from a traditional relational database to newer NoSQL approaches - and make informed decisions about challenging data storage problems. This is the only comprehensive guide to the world of NoSQL databases, with in-depth practical and conceptual introductions to seven different technologies: Redis, Neo4j, CouchDB, MongoDB, HBase, Postgres, and DynamoDB. This second edition includes a new chapter on DynamoDB and updated content for each chapter. While relational databases such as MySQL remain as relevant as ever, the alternative, NoSQL paradigm has opened up new horizons in performance and scalability and changed the way we approach data-centric problems. This book presents the essential concepts behind each database alongside hands-on examples that make such technology come alive. With each database, tackle a real-world problem that highlights the concepts and features that make it shine. Along the way, explore five database models - relational, key/value, columnar, document, and graph - from the perspective of challenges faced by real applications. Learn how MongoDB and CouchDB are strikingly different, make your applications faster with Redis and more connected with Neo4j, build a cluster of HBase servers using cloud services such as Amazon's Elastic MapReduce, and more.

This new edition brings a brand new chapter on DynamoDB, updated code samples and exercises, and a more up-to-date account of each database's feature set. Whether you're a programmer building the next big thing, a data scientist seeking solutions to thorny problems, or a technology enthusiast venturing into new territory, you will find something to inspire you in this book. What You Need: You'll need a *nix shell (Mac OS or Linux preferred, Windows users will need Cygwin), Java 6 (or greater), and Ruby 1.8.7 (or greater). Each chapter will list the downloads required for that database.

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