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Lighting Fast Big Data Analytics with Apache Spark. Data Ytics With Spark Using

We are now announcing the general availability of the Apache Spark 3.0 compatible Apache Spark Connector for SQL Server and Azure SQL, accessible through Maven. The Spark 3.0 compatible connector went ...

Accelerate big data analytics with Spark 3.0 connector for SQL Server—now generally available

“ So bringing what we call ‘ unified analytics ’ under one umbrella is what made it super powerful. ” Apache Spark isn ’ t perfect, but it has advanced the ball on data-intensive computing unlike any other ...

2015 – Spark Takes the Big Data World by Storm

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Opaque, the secure data analytics platform company, today announced \$9.5M in seed funding, led by Intel Capital with participation by Race Capital, Th ...

Data Analytics Platform, Opaque, Raises \$9.5 Million Seed from Intel Capital and Race Capital to Unlock Encrypted Data with Machine Learning

Opaque, a startup leveraging encryption technologies for data and analytics, has raised \$9.5 million in venture capital.

Opaque raises \$9.5M for encrypted data analytics

Data Mechanics, privately held and headquartered in Paris, enables businesses to capitalize on Apache Spark, an open-source unified analytics engine for fast large-scale data processing and ...

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NetApp scoops up Data Mechanics to add Spark analytics
Spark Plug Market Analysis 2021-2026 : Global Spark Plug Market is valued at USD 2347.1 million in 2019. The market ...

Spark Plug Market 2021 : Growth Opportunities, Value Chain, Sales Channels Analysis and Forecast Research Study 2026 with Top Countries Data

Writing useful analytics with only ... there's a wider universe of big data, as Stirman details: "Let's not overlook that Hadoop and Spark remain focused on analytical use cases.

The meteoric rise of Spark and the evolution of Hadoop
“ Thanks to its use of Docker containers ... “ The rapid evolution of

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Big Data analytics and data science continues, from Hadoop to Spark and Kafka and more, ” said Kumar Sreekanti, CEO ...

BlueData delivers unparalleled application flexibility and choice for Hadoop and Spark implementations

Data queries written in Python, a commonly used programming language, can grind data analytics platforms to a crawl, but a new platform developed by researchers from Brown and MIT may finally solve ...

New data science platform speeds up Python queries

When speed matters in “ Fast Data ” processing, moving the data analytics of Spark ... be achieved by human operators using static partitioning approaches. “ Spark on the Mesosphere DCOS ...

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Typesafe and Mesosphere launch new distribution and commercial support for Apache Spark on Mesosphere Datacenter Operating System (DCOS)

Hadoop, NoSQL, Spark, and related technologies are ... sensor data, and raw input data is provided. Results of spatial analysis and processing can be displayed using an HTML5 map visualization API. We ...

Get the most from your data, developers and data scientists using Big Data spatial analysis on Hadoop and NoSQL

By enabling organizations to perform in-memory analytics on big datasets, Spark offers substantial performance benefits, as well as versatility as a multi-use platform for data scientists. Attend ...

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May 22 - 23, 2018 // Boston, MA

The report scope includes detailed competitive outlook covering market shares and profiles key participants in the global Cognitive Computing market share. Major industry players with significant ...

Cognitive Computing Market Industry Analysis, Size, Share, Growth, Trends, and Forecast 2021-2031

The agreement will see DataSpark introduce its state-of-the-art Smart Network Planning (SNP) product to help establish an advanced analytics ... data to deliver intelligence on people and places ...

DataSpark Signs Landmark Deal With Global Communications Leader Ooredoo for Advanced Data-Driven Smart Network Planning

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(SNP) Solution

In Glasgow, for example, there is an effective multi-faceted state-of-the-art traffic and public safety management system that uses data and video analytics to improve responses ... more reliable and ...

Post-pandemic cities spark safety concerns for three-quarters of Brits
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The agreement will see DataSpark introduce its state-of-the-art Smart Network Planning (SNP) product to help establish an advanced

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analytics platform ... temporal mobility data to deliver intelligence ...

DataSpark Signs Landmark Deal With Global Communications Leader Ooredoo for Advanced Data-Driven Smart Network Planning (SNP) Solution

DataSpark's telco network planning product set to transform business and network efficiencies with next-generation analytics ... data to deliver intelligence on people and places using the highest ...

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 supercharge efficiency and performance in a

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wide range of data processing and analytics tasks. In this guide, Big Data expert Jeffrey Aven covers all you need to know 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 PySpark development environment. This guide ' s focus on Python makes it widely accessible to large audiences of data professionals, analysts, and developers—even those with little Hadoop or Spark experience. Aven ' s broad coverage ranges from basic to advanced Spark programming, and Spark SQL to 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.

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Coverage includes:

- Understand Spark ' s evolving role in the Big Data and Hadoop ecosystems
- Create Spark clusters using various deployment modes
- Control and optimize the operation of Spark clusters and applications
- Master Spark Core RDD API programming techniques
- Extend, accelerate, and optimize Spark routines with advanced API platform constructs, including shared variables, RDD storage, and partitioning
- Efficiently integrate Spark with both SQL and nonrelational data stores
- Perform stream processing and messaging with Spark Streaming and Apache Kafka
- Implement predictive modeling with SparkR and Spark MLlib

Big Data Analytics with Spark is a step-by-step guide for learning Spark, which is an open-source fast and general-purpose cluster computing framework for large-scale data analysis. You will learn how

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to use Spark for different types of big data analytics projects, including batch, interactive, graph, and stream data analysis as well as machine learning. 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 need for tools that can analyze large-scale data and unlock value from it. 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 shell for easy and interactive Data analysis; employ its fast batch processing and low latency features to process your real time data streams and so on. As a result, adoption of Spark is rapidly growing and is replacing Hadoop MapReduce as the technology of choice for big data analytics. This

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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 instead of spending countless hours on the Internet trying to pick bits and pieces from different sources. The book also provides a chapter on Scala, the hottest functional 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 in it. What's more, Big Data Analytics with Spark provides an introduction to other big data technologies that are commonly used along with Spark, like Hive, Avro, Kafka and so on. So the book is self-sufficient; all the technologies that you need to know to use Spark are covered. The only

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thing that you are expected to know is programming in any language. There is a critical shortage of people with big data expertise, so companies are willing to pay top dollar for people with skills in areas like Spark and Scala. So reading this book and absorbing its principles will provide a boost—possibly a big boost—to your career.

In this practical book, four Cloudera data scientists present a set of self-contained patterns for performing large-scale data analysis with Spark. The authors bring Spark, statistical methods, and real-world data sets together to teach you how to approach analytics problems by example. You ' ll start with an introduction to Spark and its ecosystem, and then dive into patterns that apply common techniques—classification, collaborative filtering, and anomaly detection among others—to fields such as genomics, security, and finance. If you have an entry-level

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understanding of machine learning and statistics, and you program in Java, Python, or Scala, you ' ll find these patterns useful for working on your own data applications. Patterns include: Recommending music and the Audioscrobbler data set Predicting forest cover with decision trees Anomaly detection in network traffic with K-means clustering Understanding Wikipedia with Latent Semantic Analysis Analyzing co-occurrence networks with GraphX Geospatial and temporal data analysis on the New York City Taxi Trips data Estimating financial risk through Monte Carlo simulation Analyzing genomics data and the BDG project Analyzing neuroimaging data with PySpark and Thunder

Spark for Data Professionals introduces and solidifies the concepts behind Spark 2.x, teaching working developers, architects, and data

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professionals exactly how to build practical Spark solutions. Jeffrey Aven covers all aspects of Spark development, including basic programming to SparkSQL, SparkR, Spark Streaming, Messaging, NoSQL and Hadoop integration. Each chapter presents practical exercises deploying Spark to your local or cloud environment, plus programming exercises for building real applications. Unlike other Spark guides, Spark for Data Professionals explains crucial concepts step-by-step, assuming no extensive background as an open source developer. It provides a complete foundation for quickly progressing to more advanced data science and machine learning topics. This guide will help you: Understand Spark basics that will make you a better programmer and cluster "citizen" Master Spark programming techniques that maximize your productivity Choose the right approach for each problem Make the most of built-in platform

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constructs, including broadcast variables, accumulators, effective partitioning, caching, and checkpointing Leverage powerful tools for managing streaming, structured, semi-structured, and unstructured data

Harness the power of Scala to program Spark and analyze tonnes of data in the blink of an eye! About This Book Learn Scala's sophisticated type system that combines Functional Programming and object-oriented concepts Work on a wide array of applications, from simple batch jobs to stream processing and machine learning Explore the most common as well as some complex use-cases to perform large-scale data analysis with Spark Who This Book Is For Anyone who wishes to learn how to perform data analysis by harnessing the power of Spark will find this book extremely useful. No knowledge of Spark

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or Scala is assumed, although prior programming experience (especially with other JVM languages) will be useful to pick up concepts quicker. What You Will Learn Understand object-oriented & functional programming concepts of Scala In-depth understanding of Scala collection APIs Work with RDD and DataFrame to learn Spark's core abstractions Analysing structured and unstructured data using SparkSQL and GraphX Scalable and fault-tolerant streaming application development using Spark structured streaming Learn machine-learning best practices for classification, regression, dimensionality reduction, and recommendation system to build predictive models with widely used algorithms in Spark MLlib & ML Build clustering models to cluster a vast amount of data Understand tuning, debugging, and monitoring Spark applications Deploy Spark applications on real clusters in Standalone, Mesos, and YARN In

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Detail Scala has been observing wide adoption over the past few years, especially in the field of data science and analytics. Spark, built on Scala, has gained a lot of recognition and is being used widely in productions. Thus, if you want to leverage the power of Scala and Spark to make sense of big data, this book is for you. The first part introduces you to Scala, helping you understand the object-oriented and functional programming concepts needed for Spark application development. It then moves on to Spark to cover the basic abstractions using RDD and DataFrame. This will help you develop scalable and fault-tolerant streaming applications by analyzing structured and unstructured data using SparkSQL, GraphX, and Spark structured streaming. Finally, the book moves on to some advanced topics, such as monitoring, configuration, debugging, testing, and deployment. You will also learn how to develop Spark applications using SparkR

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and PySpark APIs, interactive data analytics using Zeppelin, and in-memory data processing with Alluxio. By the end of this book, you will have a thorough understanding of Spark, and you will be able to perform full-stack data analytics with a feel that no amount of data is too big. Style and approach Filled with practical examples and use cases, this book will not only help you get up and running with Spark, but will also take you farther down the road to becoming a data scientist.

Data is bigger, arrives faster, and comes in a variety of formats—and it all needs to be processed at scale for analytics or machine learning. But how can you process such varied workloads efficiently? Enter Apache Spark. Updated to include Spark 3.0, this second edition shows data engineers and data scientists why structure and unification in Spark

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matters. Specifically, this book explains how to perform simple and complex data analytics and employ machine learning algorithms.

Through step-by-step walk-throughs, code snippets, and notebooks,

you ' ll be able to: Learn Python, SQL, Scala, or Java high-level

Structured APIs Understand Spark operations and SQL Engine

Inspect, tune, and debug Spark operations with Spark configurations

and Spark UI Connect to data sources: JSON, Parquet, CSV, Avro,

ORC, Hive, S3, or Kafka Perform analytics on batch and streaming

data using Structured Streaming Build reliable data pipelines with open

source Delta Lake and Spark Develop machine learning pipelines with

MLlib and productionize models using MLflow

Analyze your data and delve deep into the world of machine learning

with the latest Spark version, 2.0 About This Book Perform data

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analysis and build predictive models on huge datasets that leverage Apache Spark Learn to integrate data science algorithms and techniques with the fast and scalable computing features of Spark to address big data challenges Work through practical examples on real-world problems with sample code snippets Who This Book Is For This book is for anyone who wants to leverage Apache Spark for data science and machine learning. If you are a technologist who wants to expand your knowledge to perform data science operations in Spark, or a data scientist who wants to understand how algorithms are implemented in Spark, or a newbie with minimal development experience who wants to learn about Big Data Analytics, this book is for you! What You Will Learn Consolidate, clean, and transform your data acquired from various data sources Perform statistical analysis of data to find hidden insights Explore graphical techniques to see what

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your data looks like Use machine learning techniques to build predictive models Build scalable data products and solutions Start programming using the RDD, DataFrame and Dataset APIs Become an expert by improving your data analytical skills In Detail This is the era of Big Data. The words 'Big Data' implies big innovation and enables a competitive advantage for businesses. Apache Spark was designed to perform Big Data analytics at scale, and so Spark is equipped with the necessary algorithms and supports multiple programming languages. Whether you are a technologist, a data scientist, or a beginner to Big Data analytics, this book will provide you with all the skills necessary to perform statistical data analysis, data visualization, predictive modeling, and build scalable data products or solutions using Python, Scala, and R. With ample case studies and real-world examples, Spark for Data Science will help you ensure the

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successful execution of your data science projects. Style and approach
This book takes a step-by-step approach to statistical analysis and machine learning, and is explained in a conversational and easy-to-follow style. Each topic is explained sequentially with a focus on the fundamentals as well as the advanced concepts of algorithms and techniques. Real-world examples with sample code snippets are also included.

Data in all domains is getting bigger. How can you work with it efficiently? Recently updated for Spark 1.3, this book introduces Apache Spark, the open source cluster computing system that makes data analytics fast to write and fast to run. With Spark, you can tackle big datasets quickly through simple APIs in Python, Java, and Scala. This edition includes new information on Spark SQL, Spark

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Streaming, setup, and Maven coordinates. Written by the developers of Spark, this book will have data scientists and engineers up and running in no time. You ' ll learn how to express parallel jobs with just a few lines of code, and cover applications from simple batch jobs to stream processing and machine learning. Quickly dive into Spark capabilities such as distributed datasets, in-memory caching, and the interactive shell Leverage Spark ' s powerful built-in libraries, including Spark SQL, Spark Streaming, and MLlib Use one programming paradigm instead of mixing and matching tools like Hive, Hadoop, Mahout, and Storm Learn how to deploy interactive, batch, and streaming applications Connect to data sources including HDFS, Hive, JSON, and S3 Master advanced topics like data partitioning and shared variables

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In this book, you'll learn to implement some practical and proven techniques to improve aspects of programming and administration in Apache Spark. Techniques are demonstrated using practical examples and best practices. You will also learn how to use Spark and its Python API to create performant analytics with large-scale data.

Gain the key language concepts and programming techniques of Scala in the context of big data analytics and Apache Spark. The book begins by introducing you to Scala and establishes a firm contextual understanding of why you should learn this language, how it stands in comparison to Java, and how Scala is related to Apache Spark for big data analytics. Next, you ' ll set up the Scala environment ready for examining your first Scala programs. This is followed by sections on Scala fundamentals including mutable/immutable variables, the type

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hierarchy system, control flow expressions and code blocks. The author discusses functions at length and highlights a number of associated concepts such as functional programming and anonymous functions. The book then delves deeper into Scala ' s powerful collections system because many of Apache Spark ' s APIs bear a strong resemblance to Scala collections. Along the way you ' ll see the development life cycle of a Scala program. This involves compiling and building programs using the industry-standard Scala Build Tool (SBT). You ' ll cover guidelines related to dependency management using SBT as this is critical for building large Apache Spark applications. Scala Programming for Big Data Analytics concludes by demonstrating how you can make use of the concepts to write programs that run on the Apache Spark framework. These programs will provide distributed and parallel computing, which is critical for big data analytics. What

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You Will Learn See the fundamentals of Scala as a general-purpose programming language Understand functional programming and object-oriented programming constructs in Scala Use Scala collections and functions Develop, package and run Apache Spark applications for big data analytics Who This Book Is For Data scientists, data analysts and data engineers who intend to use Apache Spark for large-scale analytics. /div

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