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Advanced Ytics With Spark Patterns

“ 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

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computing unlike any other ...

2015 – Spark Takes the Big Data World by Storm

A decade ago, Ion Stoica and his colleagues at UC Berkeley's school of computing identified the roadblock to performing advanced analytics ... was the Apache Spark project.

Databricks cofounder ' s next act: Shining a Ray on serverless autoscaling

The offering comes at a time when business ' appetites for strong data insights are renewed, following the difficult pandemic year.

Xero introduces AI-powered analytics tool

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DataSpark has signed a multi-year strategic deal with Ooredoo Group, to automate and standardise their group-wide network planning processes, optimise capital expenditure spending and deliver superior ...

DataSpark signs agreement with Ooredoo for advanced data-driven SNP solution

DataSpark's telco network planning product set to transform business and network efficiencies with next-generation analytics and cutting-edge data science ...

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

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Oracle Financial Crime and Compliance has been ranked by global advisory and consulting firm Quadrant Knowledge Solutions as a Technology Leader in the recently released SPARK Matrix™, Anti ...

Oracle Named a Leader in Anti-Money Laundering and Know Your Customer in Quadrant Knowledge Solutions' Reports

Product Analytics Market size to grow from USD 9.6 billion in 2021 to USD 25.3 billion by 2026, at a CAGR of 21.3% during the forecast period. Copyright © 2005 - 2021 - SBWire, a service of ReleaseWir ...

Product Analytics Market May Reach to \$25.3 Billion by

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2026-Exclusive Report by MarketsandMarkets™

New Analytics Plus brings advanced cash flow and business forecasting directly into Xero Xero, the global small business platform, today announced Analytics Plus, part of a new suite of planning and ...

Xero Introduces New, AI-powered Analytics to Help Small Businesses Plan for the Future with Trusted, Insightful Data
However, if you're passionate about computers, math, and discovering answers through data analysis, then earning an advanced ... demand data analytics tools - Python, R, SQL, Spark, Hadoop ...

Be a part of new-age data revolution with an advanced data

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Analytics course

It is important that retailers continue to enforce Covid-19 safety measures to protect customers and employees. Fortunately, it is possible to prioritize safety while also providing shoppers with an ...

Video Analytics Can Help Balance Pandemic-Era Safety With a Positive CX

Visa's Melissa McSherry discusses how Visa uses unsupervised machine learning and other types of AI to fight payment fraud at Transform 2021.

Visa on using advanced AI such as unsupervised learning to fight fraud

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The global Marketing analytics software market accounted to exhibit promising CAGR 12.25% across the forecast period through 2018 to 2026. Market Insights The explosive growth of media, digital ...

Marketing analytics software market- Size, Trends and Forecast 2026 | Oracle Corporation, QLINK Technologies Inc., Experian PLC, Harte Hanks, Inc.

IndigoVision, a U.K.-based provider of end-to-end video security solutions, will explore the possibilities in a webinar June 15, seeking to provide a better understanding of how AI and advanced ... as ...

Webinar to explore impact of AI and analytics on physical

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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 analytics platform and capability in network planning across all ...

DataSpark Signs Landmark Deal With Global Communications Leader Ooredoo for Advanced Data-Driven Smart Network Planning (SNP) Solution
New Analytics Plus brings advanced cash flow and business forecasting directly ... small businesses greater flexibility and foresight over their business. Using pattern-matching and predictive ...

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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 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.

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Patterns include: Recommending music and the Audioscrobler 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

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

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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 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

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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

In the second edition of 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. Updated for Spark 2.1, this edition acts as an introduction to these techniques and other best practices in

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Spark programming. You ' ll start with an introduction to Spark and its ecosystem, and then dive into patterns that apply common techniques—including classification, clustering, collaborative filtering, and anomaly detection—to fields such as genomics, security, and finance. If you have an entry-level understanding of machine learning and statistics, and you program in Java, Python, or Scala, you ' ll find the book ' s patterns useful for working on your own data applications. With this book, you will:

- Familiarize yourself with the Spark programming model
- Become comfortable within the Spark ecosystem
- Learn general approaches in data science
- Examine complete implementations that analyze large public data sets
- Discover which machine learning tools make sense for

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particular problems Acquire code that can be adapted to many uses

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 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

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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. Coverage includes:

- Understand Spark ' s

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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

In this book, you'll learn to implement some practical and proven techniques to improve aspects of programming and

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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.

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 matters. Specifically, this book explains how to perform simple and complex data analytics and employ machine learning algorithms. Through step-by-step walk-

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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

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

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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 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

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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 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

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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 and PySpark APIs, interactive data analytics using Zeppelin, and in-memory data processing

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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 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

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edition includes new information on Spark SQL, Spark 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,

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