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Build efficient data flow and machine learning programs with this flexible, multi-functional open-source cluster-computing framework

Key Features

Master the art of real-time big data processing and machine learning

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Explore a wide range of use-cases to analyze large data. Discover ways to

optimize your work by using many features of Spark 2.x and Scala Book

Description Apache Spark is an in-memory, cluster-based data processing system that provides a wide range of functionalities such as big data

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Big Data At Scale Using processing, analytics, machine learning, and more. With this Learning Path, you can take your knowledge of Apache Spark to the next level by learning how to expand Spark's functionality and building your own data flow and machine learning programs on this platform. You will work with the

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Big Data At Scale Using Apache Spark 2 Y Java APIs

different modules in Apache Spark, such as interactive querying with Spark SQL, using DataFrames and datasets, implementing streaming analytics with Spark Streaming, and applying machine learning and deep learning techniques on Spark using MLlib and various external tools. By the end of this

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elaborately designed Learning Path, you will have all the knowledge you need to master Apache Spark, and build your own big data processing and analytics pipeline quickly and without any hassle. This Learning Path includes content from the following Packt products: Mastering Apache Spark 2.x

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Big Data At Scale Using Scala and Spark for
Big Data Analytics by Md. Rezaul

Karim, Sridhar Alla Apache Spark 2.x

Machine Learning Cookbook by

Siamak Amirghodsi, Meenakshi

Rajendran, Broderick Hall, Shuen

MeiCookbook What you will learn Get

to grips with all the features of Apache

Download Free Apache Spark 2 X For Java Developers: Explore Big Data At Scale Using Apache Spark 2 X Java APIs

Spark 2.x Perform highly optimized real-time big data processing Use ML and DL techniques with Spark MLlib and third-party tools Analyze structured and unstructured data using SparkSQL and GraphX Understand tuning, debugging, and monitoring of big data applications Build scalable and fault-tolerant

Download Free Apache Spark 2 X For Java Developers: Explore Big Data At Scale Using streaming applications Develop scalable recommendation engines Who this book is for If you are an intermediate-level Spark developer looking to master the advanced capabilities and use-cases of Apache Spark 2.x, this Learning Path is ideal for you. Big data professionals who want to

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learn how to integrate and use the features of Apache Spark and build a

strong big data pipeline will also find this Learning Path useful. To grasp the concepts explained in this Learning Path, you must know the fundamentals of Apache Spark and Scala.

Learn how to use, deploy, and maintain

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Apache Spark with this comprehensive guide, written by the creators of the open-source cluster-computing framework. With an emphasis on improvements and new features in Spark 2.0, authors Bill Chambers and Matei Zaharia break down Spark topics into distinct sections, each with unique

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Apache Spark 2 X Java APIs

goals. You'll explore the basic operations and common functions of Spark's structured APIs, as well as Structured Streaming, a new high-level API for building end-to-end streaming applications. Developers and system administrators will learn the fundamentals of monitoring, tuning, and

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debugging Spark, and explore machine
learning techniques and scenarios for
employing MLlib, Spark's scalable
machine-learning library. Get a gentle
overview of big data and Spark Learn
about DataFrames, SQL, and
Datasets—Spark's core APIs—through
worked examples Dive into Spark's low-

Download Free Apache Spark 2 X For Java Developers: Explore Big Data At Scale Using level APIs, RDDs, and execution of SQL and DataFrames Understand how Spark runs on a cluster Debug, monitor, and tune Spark clusters and applications Learn the power of Structured Streaming, Spark's stream-processing engine Learn how you can apply MLlib to a variety of problems,

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including classification or recommendation

Speed up the design and implementation of deep learning solutions using Apache Spark Key Features Explore the world of distributed deep learning with Apache Spark Train neural networks with deep learning

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Big Data At Scale Using
libraries such as BigDL and

TensorFlowDevelop Spark deep

learning applications to intelligently
handle large and complex

datasetsBook Description Deep

learning is a subset of machine learning
where datasets with several layers of
complexity can be processed. Hands-

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On Deep Learning with Apache Spark addresses the sheer complexity of technical and analytical parts and the speed at which deep learning solutions can be implemented on Apache Spark. The book starts with the fundamentals of Apache Spark and deep learning. You will set up Spark for deep learning,

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learn principles of distributed modeling, and understand different types of neural nets. You will then implement deep learning models, such as convolutional neural networks (CNNs), recurrent neural networks (RNNs), and long short-term memory (LSTM) on Spark. As you progress through the book, you will gain

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hands-on experience of what it takes to understand the complex datasets you are dealing with. During the course of this book, you will use popular deep learning frameworks, such as TensorFlow, Deeplearning4j, and Keras to train your distributed models. By the end of this book, you'll have gained

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experience with the implementation of
your models on a variety of use cases.

What you will learn
Understand the
basics of deep learning
Set up Apache
Spark for deep learning
Understand the
principles of distribution modeling and
different types of neural
networks
Obtain an understanding of

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deep learning algorithms Discover
textual analysis and deep learning with
Apache Spark 2 Y Java APIs
Spark Use popular deep learning
frameworks, such as Deeplearning4j,
TensorFlow, and Keras Explore popular
deep learning algorithms Who this book
is for If you are a Scala developer, data
scientist, or data analyst who wants to

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learn how to use Spark for implementing efficient deep learning models, Hands-On Deep Learning with Apache Spark is for you. Knowledge of the core machine learning concepts and some exposure to Spark will be helpful.

Summary Spark in Action teaches you

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the theory and skills you need to effectively handle batch and streaming data using Spark. Fully updated for Spark 2.0. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology Big data systems distribute datasets across

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clusters of machines, making it a challenge to efficiently query, stream, and interpret them. Spark can help. It is a processing system designed specifically for distributed data. It provides easy-to-use interfaces, along with the performance you need for production-quality analytics and

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Big Data At Scale Using machine learning. Spark 2 also adds improved programming APIs, better performance, and countless other upgrades. About the Book Spark in Action teaches you the theory and skills you need to effectively handle batch and streaming data using Spark. You'll get comfortable with the Spark CLI as

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Apache Spark 2.X Java APIs

you work through a few introductory examples. Then, you'll start programming Spark using its core APIs. Along the way, you'll work with structured data using Spark SQL, process near-real-time streaming data, apply machine learning algorithms, and munge graph data using Spark

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GraphX. For a zero-effort startup, you
can download the preconfigured virtual
machine ready for you to try the book's
code. What's Inside Updated for Spark
2.0 Real-life case studies Spark
DevOps with Docker Examples in
Scala, and online in Java and Python
About the Reader Written for

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experienced programmers with some
background in big data or machine

learning. About the Authors Petar

Zečević and Marko Bonaći are

seasoned developers heavily involved

in the Spark community. Table of

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Introduction to Apache Spark Spark

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applications The Spark API in depth
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PART 2 - MEET THE SPARK FAMILY
Sparkling queries with Spark SQL
Ingesting data with Spark Streaming
Getting smart with MLlib ML:
classification and clustering Connecting
the dots with GraphX PART 3 - SPARK

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Spark with H2O

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High Performance Spark
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DataBricks® PySpark 2.x Certification
Practice Questions
Apache Spark 2: Data Processing and
Real-Time Analytics
Learning PySpark
Frank Kane's hands-on Spark

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training course, based on his bestselling Taming Big Data with Apache Spark and Python video, now available in a book.

Understand and analyze large data sets using Spark on a single system or on a cluster. About This

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*Big Data At Scale Using
Apache Spark 2 X Java APIs*
*Book Understand how Spark can
be distributed across computing
clusters Develop and run Spark
jobs efficiently using Python A
hands-on tutorial by Frank Kane
with over 15 real-world examples
teaching you Big Data processing*

Download Free Apache Spark 2 X For Java Developers: Explore Big Data At Scale Using with Spark Who This Book Is For Apache Spark 2 X Java APIs

If you are a data scientist or data analyst who wants to learn Big Data processing using Apache Spark and Python, this book is for you. If you have some programming experience in

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Python, and want to learn how to process large amounts of data using Apache Spark, Frank Kane's Taming Big Data with Apache Spark and Python will also help you. What You Will Learn Find out how you can identify Big Data

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problems as Spark problems

Install and run Apache Spark on

your computer or on a cluster

Analyze large data sets across

many CPUs using Spark's

Resilient Distributed Datasets

Implement machine learning on

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Spark using the MLlib library

Process continuous streams of

*data in real time using the Spark
streaming module Perform*

complex network analysis using

Spark's GraphX library Use

Amazon's Elastic MapReduce

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service to run your Spark jobs on a cluster In Detail Frank Kane's Taming Big Data with Apache Spark and Python is your companion to learning Apache Spark in a hands-on manner. Frank will start you off by

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*Big Data At Scale Using
Apache Spark 2 X Java APIs*
teaching you how to set up Spark
on a single system or on a cluster,
and you'll soon move on to
analyzing large data sets using
Spark RDD, and developing and
running effective Spark jobs
quickly using Python. Apache

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Spark has emerged as the next big thing in the Big Data domain - quickly rising from an ascending technology to an established superstar in just a matter of years. Spark allows you to quickly extract actionable insights from

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large amounts of data, on a real-time basis, making it an essential tool in many modern businesses.

Frank has packed this book with over 15 interactive, fun-filled examples relevant to the real world, and he will empower you to

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Big Data At Scale Using Apache Spark 2 X Java APIs
understand the Spark ecosystem and implement production-grade real-time Spark projects with ease. Style and approach Frank Kane's Taming Big Data with Apache Spark and Python is a hands-on tutorial with over 15 real-

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world examples carefully explained by Frank in a step-by-step manner. The examples vary in complexity, and you can move through them at your own pace. Simplify machine learning model implementations with Spark About

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*This Book Solve the day-to-day
problems of data science with*

*Spark This unique cookbook
consists of exciting and intuitive
numerical recipes Optimize your
work by acquiring, cleaning,
analyzing, predicting, and*

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Big Data At Scale Using

visualizing your data Who This Book Is For This book is for Scala developers with a fairly good exposure to and understanding of machine learning techniques, but lack practical implementations with Spark. A solid knowledge of

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Apache Spark 2 X Java APIs

machine learning algorithms is assumed, as well as hands-on experience of implementing ML algorithms with Scala. However, you do not need to be acquainted with the Spark ML libraries and ecosystem. What You Will Learn

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*Big Data At Scale Using
Apache Spark 2.X Java APIs*

*Get to know how Scala and Spark
go hand-in-hand for developers
when developing ML systems with
Spark Build a recommendation
engine that scales with Spark Find
out how to build unsupervised
clustering systems to classify data*

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*in Spark Build machine learning
systems with the Decision Tree*

and Ensemble models in Spark

Deal with the curse of high-

dimensionality in big data using

Spark Implement Text analytics

for Search Engines in Spark

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Streaming Machine Learning
System implementation using
Apache Spark 2 X Java APIs

Spark In Detail Machine learning aims to extract knowledge from data, relying on fundamental concepts in computer science, statistics, probability, and

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optimization. Learning about algorithms enables a wide range of applications, from everyday tasks such as product recommendations and spam filtering to cutting edge applications such as self-driving

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cars and personalized medicine.

Apache Spark 2 X Java APIs

You will gain hands-on experience of applying these principles using Apache Spark, a resilient cluster computing system well suited for large-scale machine learning tasks. This book begins with a

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quick overview of setting up the necessary IDEs to facilitate the execution of code examples that will be covered in various chapters. It also highlights some key issues developers face while working with machine learning

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Big Data At Scale Using algorithms on the Spark platform. We progress by uncovering the various Spark APIs and the implementation of ML algorithms with developing classification systems, recommendation engines, text analytics, clustering,

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Apache Spark 2 Y Java APIs*

*and learning systems. Toward the
final chapters, we'll focus on
building high-end applications and
explain various unsupervised
methodologies and challenges to
tackle when implementing with
big data ML systems. Style and*

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approach This book is packed with intuitive recipes supported with line-by-line explanations to help you understand how to optimize your work flow and resolve problems when working with complex data modeling tasks and

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predictive algorithms. This is a valuable resource for data scientists and those working on large scale data projects.

Advanced analytics on your Big Data with latest Apache Spark 2.x
About This Book An advanced

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Apache Spark 2 X Java APIs

guide with a combination of instructions and practical

examples to extend the most up-to-date Spark functionalities. Extend your data processing capabilities to process huge chunk of data in minimum time using advanced

Download Free Apache Spark 2 X For Java Developers: Explore Big Data At Scale Using concepts in Spark. Master the art of real-time processing with the help of Apache Spark 2.x Who This Book Is For If you are a developer with some experience with Spark and want to strengthen your knowledge of how

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*to get around in the world of
Spark, then this book is ideal for*

*you. Basic knowledge of Linux,
Hadoop and Spark is assumed.*

*Reasonable knowledge of Scala is
expected. What You Will Learn*

Examine Advanced Machine

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*Learning and DeepLearning with
MLlib, SparkML, SystemML, H2O
and DeepLearning4J Study highly
optimised unified batch and real-
time data processing using
SparkSQL and Structured
Streaming Evaluate large-scale*

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Graph Processing and Analysis
using GraphX and GraphFrames
Apply Apache Spark in Elastic
deployments using Jupyter and
Zeppelin Notebooks, Docker,
Kubernetes and the IBM Cloud
Understand internal details of cost

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*Big Data At Scale Using
based optimizers used in Catalyst,
SystemML and GraphFrames*

*Learn how specific parameter
settings affect overall*

*performance of an Apache Spark
cluster Leverage Scala, R and
python for your data science*

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Big Data At Scale Using

*projects In Detail Apache Spark is
an in-memory cluster-based*

*parallel processing system that
provides a wide range of*

*functionalities such as graph
processing, machine learning,*

stream processing, and SQL. This

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book aims to take your knowledge of Spark to the next level by teaching you how to expand Spark's functionality and implement your data flows and machine/deep learning programs on top of the platform. The book

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Big Data At Scale Using Apache Spark 2 X Java APIs commences with an overview of the Spark ecosystem. It will introduce you to Project Tungsten and Catalyst, two of the major advancements of Apache Spark 2.x. You will understand how memory management and binary

Download Free Apache Spark 2 X For Java Developers: Explore Big Data At Scale Using processing, cache-aware computation, and code generation are used to speed things up dramatically. The book extends to show how to incorporate H2O, SystemML, and Deeplearning4j for machine learning, and Jupyter

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Notebooks and Kubernetes/Docker for cloud-based Spark. During the course of the book, you will learn about the latest enhancements to Apache Spark 2.x, such as interactive querying of live data and unifying

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DataFrames and Datasets. You will also learn about the updates on the APIs and how DataFrames and Datasets affect SQL, machine learning, graph processing, and streaming. You will learn to use Spark as a big data operating

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*Big Data At Scale Using
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system, understand how to
implement advanced analytics on
the new APIs, and explore how
easy it is to use Spark in day-to-
day tasks. *Style and approach* This
book is an extensive guide to
Apache Spark modules and tools

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and shows how Spark's functionality can be extended for real-time processing and storage with worked examples.

This book contains the questions answers and some FAQ about the Databricks Spark Certification for

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version 2.x, which is the latest release from Apache Spark. In this book we will be having in total 75 practice questions. Almost all required question would have in detail explanation to the questions and answers, wherever required.

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Don't consider this book as a guide, it is more of question and answer practice book. This book also give some references as well like how to prepare further to ensure that you clear the certification exam. This book will

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particularly focus on the Python
version of the certification
Apache Spark 2, Y, Java APIs

*preparation material. Please note
these are practice questions and
not dumps, hence just memorizing
the question and answers will not
help in the real exam. You need to*

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*understand the concepts in detail
as well as you should be able to
solve the programming questions
at the end in real worlds work you
should be able to write code using
PySpark whether you are Data
Engineer, Data Analytics*

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*Engineer, Data Scientists or
Programmer. Hence, take the*

*opportunity to learn each question
and also go through the
explanation of the questions.*

*Build and deploy distributed deep
learning applications on Apache*

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Learning Spark
Apache Spark 2 X Java APIs

*Master complex big data
processing, stream analytics, and
machine learning with Apache
Spark*
Mastering Machine Learning with

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Spark 2.x

*75 Practice Questions and Answer
Spark in Action, Second Edition*

The term *big data* refers to extremely large sets of data that are analyzed to reveal insights, such as patterns, trends, and associations.

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The algorithms that analyze this data to provide these insights must extract value from a wide range of data sources, including business data and live, streaming, social media data. However, the real value of these

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***insights comes from their
timeliness. Rapid delivery
of insights enables anyone
(not only data scientists)
to make effective decisions,
applying deep intelligence
to every enterprise
application. Apache Spark is***

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*an integrated analytics
framework and runtime to
accelerate and simplify
algorithm development,
deployment, and realization
of business insight from
analytics. Apache Spark on
IBM® z/OS® puts the open*

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*Big Data At Scale Using
source engine, augmented
with unique differentiated
features, built specifically
for data science, where big
data resides. This IBM
Redbooks® publication
describes the installation
and configuration of IBM*

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Big Data At Scale Using
z/OS Platform for Apache
Spark for field teams and
clients. Additionally, it
includes examples of
business analytics
scenarios.

Data is bigger, arrives
faster, and comes in a

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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

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*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*

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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

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*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*

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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
Work with Apache Spark using

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*Big Data At Scale Using
Scala to deploy and set up
single-node, multi-node, and
high-availability clusters.
This book discusses various
components of Spark such as
Spark Core, DataFrames,
Datasets and SQL, Spark
Streaming, Spark MLib, and R*

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on Spark with the help of
practical code snippets for
each topic. Practical Apache
Spark also covers the
integration of Apache Spark
with Kafka with examples.
You'll follow a learn-to-do-
by-yourself approach to

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*learning – learn the
concepts, practice the code
snippets in Scala, and
complete the assignments
given to get an overall
exposure. On completion,
you'll have knowledge of the
functional programming*

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aspects of Scala, and hands-on expertise in various

Spark components. You'll also become familiar with machine learning algorithms with real-time usage. What You Will Learn Discover the functional programming

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features of Scala Understand
the complete architecture of
Spark and its
components Integrate Apache
Spark with Hive and Kafka
Use Spark SQL, DataFrames,
and Datasets to process data
using traditional SQL

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Big Data At Scale Using
queries Work with different
machine learning concepts
and libraries using Spark's
MLlib packages Who This Book
Is For Developers and
professionals who deal with
batch and stream data
processing.

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Apache Spark is one of the fastest growing technology in BigData computing world. It support multiple programming languages like Java, Scala, Python and R. Hence, many existing and new framework started to

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**integrate Spark platform as
well in their platform e.g.
Hadoop, Cassandra, EMR etc.
While creating Spark
certification material
HadoopExam technical team
found that there is no
proper material and book is**

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**available for the Spark SQL
(version 2.x) which covers
the concepts as well as use
of various features and
found difficulty in creating
the material. Therefore,
they decided to create full
length book for Spark SQL**

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**and outcome of that is this
book. In this book technical
team try to cover both
fundamental concepts of
Spark SQL engine and many
exercises approx. 35+ so
that most of the programming
features can be covered.**

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There are approximately 35 exercises and total 15

chapters which covers the programming aspects of SparkSQL. All the exercises given in this book are written using Scala.

However, concepts remain

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Big Data At Scale Using
same even if you are using
different programming
language.

Beginning Apache Spark 2
Apache Spark Implementation
on IBM z/OS

Frank Kane's Taming Big Data
with Apache Spark and Python

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Using the Scala API
Guide for Databricks® Spark

Python (PySpark) CRT020

Certification

*Best Practices for Scaling
and Optimizing Apache Spark*

Develop applications for

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the big data landscape
with Spark and Hadoop.

This book also explains
the role of Spark in
developing scalable
machine learning and
analytics applications

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with Cloud technologies.

Beginning Apache Spark 2
gives you an
introduction to Apache
Spark and shows you how
to work with it. Along
the way, you'll discover

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resilient distributed
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datasets (RDDs); use

Spark SQL for structured
data; and learn stream
processing and build
real-time applications
with Spark Structured

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become proficient in
using Apache Spark and

know when and how to

apply it to your big

data applications. What

You Will Learn

Understand Spark unified

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data processing platform
How to run Spark in
Spark Shell or
Databricks Use and
manipulate RDDs Deal
with structured data
using Spark SQL through

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its operations and
advanced functions Build
real-time applications
using Spark Structured
Streaming Develop
intelligent applications
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Programmers and

developers active in big

data, Hadoop, and Java

but who are new to the

Apache Spark platform.

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discovering, learning,
and using Apache Spark
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data processing engine
inside of Apache Spark;
its user-friendly,
comprehensive, and
flexible programming
model for processing
data in batch and

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learning algorithms and
practical utilities to
build machine learning
applications. Beginning
Apache Spark 3 begins by

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explaining different ways of interacting with Apache Spark, such as Spark Concepts and Architecture, and Spark Unified Stack. Next, it offers an overview of

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features. It covers tips and techniques for dealing with performance issues, followed by an overview of the

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structured streaming processing engine. It

concludes with a demonstration of how to develop machine learning applications using Spark MLlib and how to manage

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the machine learning
development lifecycle.

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practical examples and
code snippets to help
you master concepts and
features immediately

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after they are covered
in each section. After
reading this book, you
will have the knowledge
required to build your
own big data pipelines,
applications, and

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machine learning

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applications. What You

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analytics engine and its

various components Work

in tandem to provide a

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using dataframe and
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machine learning

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lifecycle using MLflow

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engineers and software
developers.

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deliver successful

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pipelines and graph

applications using Spark

SQL API About This Book

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learning, and large-
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applications using Spark
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Learn data exploration,
data munging, and how to
process structured and
semi-structured data
using real-world
datasets and gain hands-
on exposure to the

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issues and challenges of
working with noisy and
"dirty" real-world data.

Understand design
considerations for
scalability and
performance in web-scale

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Spark application

architectures. Who This

Book Is For If you are a

developer, engineer, or

an architect and want to

learn how to use Apache

Spark in a web-scale

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project, then this is
the book for you. It is
assumed that you have
prior knowledge of SQL
querying. A basic
programming knowledge
with Scala, Java, R, or

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Python is all you need
to get started with this
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Kafka to build streaming

applications Learn key
performance-tuning tips
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applications Learn key
architectural components

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and patterns in large-scale Spark SQL

applications In Detail

In the past year, Apache Spark has been

increasingly adopted for the development of

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distributed applications. Spark SQL APIs provide an optimized interface that helps developers build such applications quickly and easily.

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However, designing web-scale production applications using Spark SQL APIs can be a complex task. Hence, understanding the design and implementation best

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practices before you
start your project will
help you avoid these
problems. This book
gives an insight into
the engineering
practices used to design

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and build real-world, Spark-based applications. The book's hands-on examples will give you the required confidence to work on any future projects you

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It starts by

familiarizing you with

data exploration and

data munging tasks using

Spark SQL and Scala.

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will help you understand
the methods used to
implement typical use-
cases for various types
of applications. You
will get a walkthrough
of the key concepts and

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terms that are common to streaming, machine learning, and graph applications. You will also learn key performance-tuning details including Cost

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(Spark 2.2) in Spark SQL
applications. Finally,
you will move on to
learning how such
systems are architected
and deployed for a

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successful delivery of
your project. Style and
approach This book is a
hands-on guide to
designing, building, and
deploying Spark SQL-
centric production

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applications at scale.

Apache Spark 2 X Java APIs
By introducing in-memory
persistent storage,
Apache Spark eliminates
the need to store
intermediate data in
filesystems, thereby

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increasing processing
speed by up to 100

times. This book will
focus on how to analyze
large and complex sets
of data. Starting with
installing and

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configuring Apache Spark
with various cluster

managers, you will cover
setting up development
environments. You will
then cover various
recipes to perform

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interactive queries
using Spark SQL and real-
time streaming with
various sources such as
Twitter Stream and
Apache Kafka. You will
then focus on machine

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learning, including
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supervised learning,

unsupervised learning,

and recommendation

engine algorithms. After

mastering graph

processing using GraphX,

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you will cover various
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recipes for cluster

optimization and
troubleshooting.

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streamline deep learning
in a distributed
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Data Processing and Real-
Time Analytics

Apache Spark is amazing when
everything clicks. But if you
haven't seen the performance

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improvements you expected, or still don't feel confident enough to use Spark in production, this practical book is for you. Authors Holden Karau and Rachel Warren demonstrate performance optimizations to help your Spark

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queries run faster and handle larger data sizes, while using fewer resources. Ideal for software engineers, data engineers, developers, and system administrators working with large-scale data applications, this book

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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

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around performance issues in
Spark's key/value pair paradigm
Writing high-performance Spark
code without Scala or the JVM How
to test for functionality and
performance when applying
suggested improvements Using

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Big Data At Scale Using Spark MLlib and Spark ML machine learning libraries Spark's

Streaming components and external community packages

Summary The Spark distributed data processing platform provides an easy-to-implement tool for

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ingesting, streaming, and processing data from any source. In Spark in Action, Second Edition, you'll learn to take advantage of Spark's core features and incredible processing speed, with applications including real-time

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Big Data At Scale Using computation, delayed evaluation, and machine learning. Spark skills are a hot commodity in enterprises worldwide, and with Spark's powerful and flexible Java APIs, you can reap all the benefits without first learning Scala or

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Hadoop. Purchase of the print
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technology Analyzing enterprise

data starts by reading, filtering,

and merging files and streams

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from many sources. The Spark data processing engine handles this varied volume like a champ, delivering speeds 100 times faster than Hadoop systems. Thanks to SQL support, an intuitive interface, and a straightforward

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multilanguage API, you can use
Apache Spark 2 X Java APIs
Spark without learning a complex
new ecosystem. About the book
Spark in Action, Second Edition,
teaches you to create end-to-end
analytics applications. In this
entirely new book, you'll learn

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from interesting Java-based examples, including a complete data pipeline for processing NASA satellite data. And you'll discover Java, Python, and Scala code samples hosted on GitHub that you can explore and adapt, plus

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appendixes that give you a cheat sheet for installing tools and

understanding Spark-specific terms. What's inside Writing Spark applications in Java Spark application architecture Ingestion through files, databases,

Download Free Apache Spark 2 X For Java Developers: Explore Big Data At Scale Using streaming, and Elasticsearch Querying distributed datasets with Spark SQL About the reader This book does not assume previous experience with Spark, Scala, or Hadoop. About the author Jean-Georges Perrin is an experienced

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data and software architect. He is
France's first IBM Champion and

has been honored for 12

consecutive years. Table of

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If you're like most R users, you have deep knowledge and love for statistics. But as your organization continues to collect huge amounts of data, adding tools such as

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and Edgar Ruiz show you how to
use R with Spark to solve different
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topics, cluster computing, and
issues that should interest even

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2.x About This Book* An advanced
guide with a combination of
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Extend your data processing

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experience with Spark and want to strengthen your knowledge of how to get around in the world of Spark, then this book is ideal for you. Basic knowledge of Linux, Hadoop and Spark is assumed. Reasonable knowledge of Scala is

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Detail Apache Spark is an in-
memory cluster-based parallel
processing system that provides a
wide range of functionalities such
as graph processing, machine

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learning, stream processing, and
SQL. This book aims to take your
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level by teaching you how to
expand Spark's functionality and
implement your data flows and
machine/deep learning programs

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on top of the platform. The book commences with an overview of the Spark ecosystem. It will introduce you to Project Tungsten and Catalyst, two of the major advancements of Apache Spark 2.x. You will understand how

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memory management and binary processing, cache-aware computation, and code generation are used to speed things up dramatically. The book extends to show how to incorporate H2O, SystemML, and Deeplearning4j for

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and unifying DataFrames and
Datasets. You will also learn about
the updates on the APIs and how
DataFrames and Datasets affect
SQL, machine learning, graph
processing, and streaming. You
will learn to use Spark as a big

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and tools and shows how Spark's
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Unofficial

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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

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source cluster computing
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system that makes data
analytics fast to write
and fast to run. With
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datasets quickly through
simple APIs in Python,

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Java, and Scala. This
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information on Spark SQL,
Spark Streaming, setup,
and Maven coordinates.
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of Spark, this book will

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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

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way Write sophisticated
Spark pipelines that

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who is feeling limited by
the current slow and
“small data” machine
learning tools? Then this
is the book for you! In
this book, you will create

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applications to power a
modern data-driven
business using Spark. We
assume that you already
know the machine learning
concepts and algorithms

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and have Spark up and running (whether on a cluster or locally) and have a basic knowledge of the various libraries contained in Spark. What You Will Learn Use Spark

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streams to cluster tweets
online Run the PageRank
Apache Spark 2 X Java APIs
algorithm to compute user
influence Perform complex
manipulation of DataFrames
using Spark Define Spark
pipelines to compose

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individual data transformations Utilize

generated models for off-
line/on-line prediction

Transfer the learning from
an ensemble to a simpler

Neural Network Understand

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basic graph properties and
important graph operations
Use GraphFrames, an
extension of DataFrames to
graphs, to study graphs
using an elegant query
language Use K-means

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algorithm to cluster movie
reviews dataset In Detail
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The purpose of machine learning is to build systems that learn from data. Being able to understand trends and

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rise of machine learning,
developers are now keen on
finding out how can they
make their Spark
applications smarter. This
book gives you access to
transform data into

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actionable knowledge. The book commences by defining machine learning primitives by the MLlib and H2O libraries. You will learn how to use Binary classification to

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detect the Higgs Boson
particle in the huge
amount of data produced by
CERN particle collider and
classify daily health
activities using ensemble
Methods for Multi-Class

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Classification. Next, you will solve a typical regression problem involving flight delay predictions and write sophisticated Spark pipelines. You will

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analyze Twitter data with
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help of the doc2vec
algorithm and K-means
clustering. Finally, you
will build different
pattern mining models
using MLlib, perform

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you to harness the
potential of machine
learning, through Spark,
in a variety of enterprise-
grade systems.

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Apache® Spark is one of the fastest growing technology in BigData computing world. It supports multiple programming languages like Java, Scala, Python and R.

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Hence, many existing and new framework started to integrate Spark platform as well in their platform for instance Hadoop, Cassandra, EMR etc. While creating Spark

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certification material
HadoopExam Engineering
team found that there is
no proper material and
book is available for the
Spark (version 2.x) which
covers the concepts as

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well as use of various features and found difficulty in creating the material. Therefore, they decided to create full length book for Spark (Databricks® CRT020 Spark

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Big Data At Scale Using Scala/Python or PySpark (Certification) and outcome of that is this book. In this book technical team try to cover both fundamental concepts of Spark 2.x topics which are

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part of the certification syllabus as well as add as many exercises as possible and in current version we have around 46 hands on exercises added which you can execute on the

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Databricks community
Apache Spark 2 X Java APIs
edition, because each of
this exercises tested on
that platform as well, as
this book is focused on
the PySpark version of the
certification, hence all

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the exercises and their
solution provided in the

Python. This book is
divided in 13 chapters, as
you move ahead chapter by
chapter you would be
comfortable with the

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Same exercises you can
convert into different
programming language like
Java, Scala & R as well.
Its more about the syntax.

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your single big data
computing platform and
master its librariesAbout
This Book* This book
contains recipes on how to

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use Apache Spark as a
unified compute engine*

Cover how to connect
various source systems to
Apache Spark* Covers
various parts of machine
learning including

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supervised/unsupervised
learning & recommendation
engines

Who This Book Is
For

This book is for data
engineers, data
scientists, and those who
want to implement Spark

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for real-time data processing. Anyone who is using Spark (or is planning to) will benefit from this book. The book assumes you have a basic knowledge of Scala as a

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programming language. What
You Will Learn* Install

and configure Apache Spark
with various cluster
managers & on AWS* Set up
a development environment
for Apache Spark including

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Big Data At Scale Using
Databricks Cloud notebook*
Find out how to operate on
data in Spark with
schemas* Get to grips with
real-time streaming
analytics using Spark
Streaming & Structured

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Streaming* Master
supervised learning and
unsupervised learning
using MLlib* Build a
recommendation engine
using MLlib* Graph
processing using GraphX

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and GraphFrames libraries*
Develop a set of common
applications or project
types, and solutions that
solve complex big data
problemsIn DetailWhile
Apache Spark 1.x gained a

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Apache Spark 2 X Java APIs

lot of traction and adoption in the early years, Spark 2.x delivers notable improvements in the areas of API, schema awareness, Performance, Structured Streaming, and

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simplifying building
Apache Spark 2 X Java APIs
blocks to build better,
faster, smarter, and more
accessible big data
applications. This book
uncovers all these
features in the form of

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Big Data At Scale Using structured recipes to analyze and mature large and complex sets of data. Starting with installing and configuring Apache Spark with various cluster managers, you will

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learn to set up development environments. Further on, you will be introduced to working with RDDs, DataFrames and Datasets to operate on schema aware data, and

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real-time streaming with
various sources such as
Twitter Stream and Apache
Kafka. You will also work
through recipes on machine
learning, including
supervised learning,

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unsupervised learning &
recommendation engines in
Apache Spark 2 X Java APIs
Spark. Last but not least,
the final few chapters
delve deeper into the
concepts of graph
processing using GraphX,

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securing your
implementations, cluster
optimization, and
troubleshooting. Style and
approach This book is
packed with intuitive
recipes supported with

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line-by-line explanations
Apache Spark 2 X Java APIs
to help you understand
Spark 2.x's real-time
processing capabilities
and deploy scalable big
data solutions. This is a
valuable resource for data

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scientists and those
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Datasets, Spark SQL,
Structured Streaming and
Spark Machine Learning
library
Mastering Apache Spark 2.x
Apache Spark 2.x for Java

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Apache Spark is one of the fastest growing technology in BigData computing world. It support multiple programming languages like Java, Scala, Python and R. Hence, many existing and new

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*framework started to
integrate Spark platform as
well in their platform e.g.
Hadoop, Cassandra, EMR etc.
While creating Spark
certification material
HadoopExam technical team
found that there is no*

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proper material and book is available for the Spark SQL (version 2.x) which covers the concepts as well as use of various features and found difficulty in creating the material. Therefore, they decided to create full

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*length book for Spark SQL
and outcome of that is this
book. In this book technical
team try to cover both
fundamental concepts of
Spark SQL engine and many
exercises approx. 35+ so
that most of the programming*

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*features can be covered.
There are approximately 35
exercises and total 15
chapters which covers the
programming aspects of
SparkSQL. All the exercises
given in this book are
written using Scala.*

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*However, concepts remain
same even if you are using
different programming
language. This book is good
for following audience -
Data scientists - Spark
Developer - Data Engineer -
Data Analytics - Java/Python*

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Developer - Scala Developer
Unleash the data processing
and analytics capability of
Apache Spark with the
language of choice: Java
About This Book Perform big
data processing with
Spark—without having to

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*learn Scala! Use the Spark
Java API to implement
efficient enterprise-grade
applications for data
processing and analytics Go
beyond mainstream data
processing by adding
querying capability, Machine*

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Learning, and graph
processing using Spark Who
This Book Is For If you are
a Java developer interested
in learning to use the
popular Apache Spark
framework, this book is the
resource you need to get

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*started. Apache Spark
developers who are looking
to build enterprise-grade
applications in Java will
also find this book very
useful. What You Will Learn
Process data using different
file formats such as XML,*

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JSON, CSV, and plain and
delimited text, using the
Spark core Library. Perform
analytics on data from
various data sources such as
Kafka, and Flume using Spark
Streaming Library Learn SQL
schema creation and the

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analysis of structured data
using various SQL functions
including Windowing
functions in the Spark SQL
Library Explore Spark Mlib
APIs while implementing
Machine Learning techniques
to solve real-world problems*

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Get to know Spark GraphX so you understand various graph-based analytics that can be performed with Spark In Detail Apache Spark is the buzzword in the big data industry right now, especially with the

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increasing need for real-time streaming and data processing. While Spark is built on Scala, the Spark Java API exposes all the Spark features available in the Scala version for Java developers. This book will

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*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*

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Spark 2.x ecosystem, followed by explaining how to install and configure Spark, and refreshes the Java concepts that will be useful to you when consuming Apache Spark's APIs. You will explore RDD and its

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associated common Action and
Transformation Java APIs,
set up a production-like
clustered environment, and
work with Spark SQL. Moving
on, you will perform near-
real-time processing with
Spark streaming, Machine

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Learning analytics with
Apache Spark 2 X Java APIs
Spark MLlib, 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 framework in*

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*Big Data At Scale Using
Java to build fast, real-
time applications. Style and
approach This practical
guide teaches readers the
fundamentals of the Apache
Spark framework and how to
implement components using
the Java language. It is a*

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*unique blend of theory and
practical examples, and is
written in a way that will
gradually build your
knowledge of Apache Spark.
Solve Data Analytics
Problems with Spark,
PySpark, and Related Open*

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Big Data At Scale Using 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

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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

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audiences of data
professionals, analysts, and
developers—even those with
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experience. Aven's broad
coverage ranges from basic
to advanced Spark
programming, and Spark SQL

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to machine learning. You'll learn how to efficiently manage all forms of data with Spark: streaming, structured, semi-structured, and unstructured.

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to speed, and extensive
hands-on exercises prepare
you to solve real problems.
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Hadoop ecosystems • Create
Spark clusters using various

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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

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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

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with Spark Streaming and
Apache Kafka • Implement
predictive modeling with
SparkR and Spark MLlib
Over 70 recipes to help you
use Apache Spark as your
single big data computing
platform and master its

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*Big Data At Scale Using
libraries About This Book
Apache Spark 2.X Java APIs
This book contains recipes
on how to use Apache Spark
as a unified compute engine
Cover how to connect various
source systems to Apache
Spark Covers various parts
of machine learning*

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including supervised/unsupervised learning & recommendation engines Who This Book Is For This book is for data engineers, data scientists, and those who want to implement Spark for real-

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time data processing. Anyone who is using Spark (or is planning to) will benefit from this book. The book assumes you have a basic knowledge of Scala as a programming language. What You Will Learn Install and

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*configure Apache Spark with
various cluster managers &
on AWS Set up a development
environment for Apache Spark
including Databricks Cloud
notebook Find out how to
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with schemas Get to grips*

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Streaming Master supervised
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learning using MLlib Build a
recommendation engine using
MLlib Graph processing using

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GraphX and GraphFrames
libraries Develop a set of
common applications or
project types, and solutions
that solve complex big data
problems In Detail While
Apache Spark 1.x gained a
lot of traction and adoption

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Big Data At Scale Using Apache Spark 2.X Java APIs
in the early years, Spark 2.x delivers notable improvements in the areas of API, schema awareness, Performance, Structured Streaming, and simplifying building blocks to build better, faster, smarter, and

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more accessible big data applications. This book uncovers all these features in the form of structured recipes to analyze and mature large and complex sets of data. Starting with installing and configuring

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*Apache Spark with various
cluster managers, you will
learn to set up development
environments. Further on,
you will be introduced to
working with RDDs,
DataFrames and Datasets to
operate on schema aware*

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*data, and real-time
streaming with various
sources such as Twitter
Stream and Apache Kafka. You
will also work through
recipes on machine learning,
including supervised
learning, unsupervised*

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learning & recommendation
Apache Spark 2 X Java APIs
engines in Spark. Last but
not least, the final few
chapters delve deeper into
the concepts of graph
processing using GraphX,
securing your
implementations, cluster*

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optimization, and troubleshooting. Style and approach This book is packed with intuitive recipes supported with line-by-line explanations to help you understand Spark 2.x's real-time processing capabilities

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and deploy scalable big data
solutions. This is a
valuable resource for data
scientists and those working
on large-scale data
projects.

*Data Analytics with Spark
Using Python*

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Over 80 recipes to simplify machine learning model implementations with Spark

About This Book* Solve the day-to-day problems of data science with Spark* This unique cookbook consists of exciting and

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intuitive numerical

recipes*Optimize your work by

acquiring, cleaning, analyzing, predicting, and visualizing your dataWho This Book Is ForThis

book is for Scala developers with a fairly good exposure to and

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understanding of machine learning techniques, but lack practical implementations with Spark. A solid knowledge of machine learning algorithms is assumed, as well as hands-on experience of implementing ML algorithms with

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Scala. However, you do not need to be acquainted with the Spark ML libraries and ecosystem. What You Will Learn* Get to know how Scala and Spark go hand-in-hand for developers when developing ML systems with Spark* Build a

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recommendation engine that scales
with Spark* Find out how to build
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machine learning systems with the
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models in Spark* Deal with the

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curse of high-dimensionality in big data using Spark*Implement Text analytics for Search Engines in Spark*Streaming Machine Learning System implementation using SparkIn DetailMachine learning aims to extract knowledge

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from data, relying on fundamental concepts in computer science, statistics, probability, and optimization. Learning about algorithms enables a wide range of applications, from everyday tasks such as product recommendations

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and spam filtering to bleeding edge applications such as self-driving cars and personalized medicine.

You will gain hands-on experience of applying these principles using Apache Spark, a cluster computing system well suited for large-scale

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machine learning tasks. This book begins with a quick overview of setting up the necessary IDEs to facilitate the execution of code examples that will be covered. It also highlights some key issues developers face while thinking

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about Scala for machine learning and during the switch over to Spark. We progress by uncovering the various Spark APIs and the implementation of ML algorithms with developing classification systems, recommendation engines,

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clustering and learning systems. Towards the final chapters, we'll focus on building high-end applications and explain various unsupervised methodologies and challenges to tackle when implementing with big data ML

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systems.

Harness the power of Scala to
program Spark and analyze tonnes
of data in the blink of an eye!
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sophisticated type system that
combines Functional

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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

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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

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understanding of Scala collection
APIs Work with RDD and
DataFrame to learn Spark's core
abstractions Analysing structured
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application development using
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machine-learning best practices for
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predictive models with widely used

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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

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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

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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

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unstructured data using SparkSQL,
Apache Spark 2 X Java APIs
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

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how to develop Spark applications using SparkR 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,

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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

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take you farther down the road to becoming a data scientist.

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distributed deep learning with Apache Spark Learn to use

libraries such as Keras and

TensorFlow Solve problems in

order to train your deep learning

models on Apache Spark Book

Description With deep learning

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gaining rapid mainstream adoption in modern-day industries, organizations are looking for ways to unite popular big data tools with highly efficient deep learning libraries. As a result, this will help deep learning models train with

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higher efficiency and speed. With the help of the Apache Spark Deep Learning Cookbook, you'll work through specific recipes to generate outcomes for deep learning algorithms, without getting bogged down in theory. From setting up

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Apache Spark for deep learning to implementing types of neural net, this book tackles both common and not so common problems to perform deep learning on a distributed environment. In addition to this, you'll get access to

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deep learning code within Spark that can be reused to answer similar problems or tweaked to answer slightly different problems. You will also learn how to stream and cluster your data with Spark. Once you have got to grips with the

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basics, you'll explore how to implement and deploy deep learning models, such as Convolutional Neural Networks (CNN) and Recurrent Neural Networks (RNN) in Spark, using popular libraries such as

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Big Data At Scale Using TensorFlow and Keras. By the end of the book, you'll have the expertise to train and deploy efficient deep learning models on Apache Spark. What you will learn

- Set up a fully functional Spark environment
- Understand practical

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machine learning and deep learning concepts Apply built-in machine learning libraries within Spark Explore libraries that are compatible with TensorFlow and Keras Explore NLP models such as Word2vec and TF-IDF on Spark

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Organize dataframes for deep learning evaluation Apply testing and training modeling to ensure accuracy Access readily available code that may be reusable Who this book is for If you're looking for a practical and highly useful

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resource for implementing
efficiently distributed deep learning
models with Apache Spark, then
the Apache Spark Deep Learning
Cookbook is for you. Knowledge of
the core machine learning concepts
and a basic understanding of the

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Apache Spark framework is required to get the best out of this book. Additionally, some programming knowledge in Python is a plus.

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big data applications Key Features
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machine learning, and analytics
using PySpark Overcome
challenges in developing and
deploying Spark solutions using
Python Explore recipes for

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efficiently combining Python and Apache Spark to process data Book Description Apache Spark is an open source framework for efficient cluster computing with a strong interface for data parallelism and fault tolerance.

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The PySpark Cookbook presents effective and time-saving recipes for leveraging the power of Python and putting it to use in the Spark ecosystem. You'll start by learning the Apache Spark architecture and how to set up a Python

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environment for Spark. You'll then get familiar with the modules available in PySpark and start using them effortlessly. In addition to this, you'll discover how to abstract data with RDDs and DataFrames, and understand the

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streaming capabilities of PySpark.
You'll then move on to using ML
and MLlib in order to solve any
problems related to the machine
learning capabilities of PySpark
and use GraphFrames to solve
graph-processing problems.

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Finally, you will explore how to deploy your applications to the cloud using the `spark-submit` command. By the end of this book, you will be able to use the Python API for Apache Spark to solve any problems associated with building

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data-intensive applications. What you will learn

- Configure a local instance of PySpark in a virtual environment
- Install and configure Jupyter in local and multi-node environments
- Create DataFrames from JSON and a dictionary using

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Big Data At Scale Using
pyspark.sql Explore regression and
clustering models available in the
ML module Use DataFrames to
transform data used for modeling
Connect to PubNub and perform
aggregations on streams Who this
book is for The PySpark Cookbook

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is for you if you are a Python developer looking for hands-on recipes for using the Apache Spark 2.x ecosystem in the best possible way. A thorough understanding of Python (and some familiarity with Spark) will help you get the best out

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of the book.

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Apache Spark 2.x Machine
Learning Cookbook

With DataFrame, Spark SQL,
Structured Streaming, and Spark
Machine Learning Library

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Spark SQL 2.x Fundamentals and
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**SQL, Streaming, Machine
Learning and Graph analysis Get
introduced to a variety of
optimizations based on the actual
experience Book Description
Apache Spark is a flexible
framework that allows processing
of batch and real-time data. Its**

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**unified engine has made it quite
popular for big data use cases.**

**This book will help you to get
started with Apache Spark 2.0
and write big data applications
for a variety of use cases. It will
also introduce you to Apache
Spark - one of the most popular**

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**Big Data processing frameworks.
Although this book is intended to
help you get started with Apache
Spark, but it also focuses on
explaining the core concepts.
This practical guide provides a
quick start to the Spark 2.0
architecture and its components.**

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It teaches you how to set up Spark on your local machine. As we move ahead, you will be introduced to resilient distributed datasets (RDDs) and DataFrame APIs, and their corresponding transformations and actions. Then, we move on to

Download Free Apache Spark 2 X For Java Developers: Explore Big Data At Scale Using the life cycle of a Spark application and learn about the techniques used to debug slow-running applications. You will also go through Spark's built-in modules for SQL, streaming, machine learning, and graph analysis. Finally, the book will lay

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**out the best practices and
optimization techniques that are
key for writing efficient Spark
applications. By the end of this
book, you will have a sound
fundamental understanding of
the Apache Spark framework and
you will be able to write and**

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optimize Spark applications.

What you will learn Learn core

concepts such as RDDs,

DataFrames, transformations,

and more Set up a Spark

development environment Choose

the right APIs for your

applications Understand Spark's

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architecture and the execution
flow of a Spark application

Explore built-in modules for SQL,
streaming, ML, and graph
analysis Optimize your Spark job
for better performance Who this
book is for If you are a big data
enthusiast and love processing

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**huge amount of data, this book is
for you. If you are data engineer**

and looking for the best

**optimization techniques for your
Spark applications, then you will**

find this book helpful. This book

also helps data scientists who

want to implement their machine

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learning algorithms in Spark. You need to have a basic understanding of any one of the programming languages such as Scala, Python or Java.

Analytics is increasingly an integral part of day-to-day operations at today's leading

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businesses, and transformation is
also occurring through huge
growth in mobile and digital
channels. Enterprise
organizations are attempting to
leverage analytics in new ways
and transition existing analytics
capabilities to respond with more

flexibility while making the most efficient use of highly valuable data science skills. The recent growth and adoption of Apache Spark as an analytics framework and platform is very timely and helps meet these challenging demands. The Apache Spark

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**environment on IBM z/OS® and
Linux on IBM z Systems™**

**platforms allows this analytics
framework to run on the same
enterprise platform as the
originating sources of data and
transactions that feed it. If most
of the data that will be used for**

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Apache Spark analytics, or the most sensitive or quickly changing data is originating on z/OS, then an Apache Spark z/OS based environment will be the optimal choice for performance, security, and governance. This IBM® Redpaper™ publication

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explores the enterprise analytics market, use of Apache Spark on IBM z Systems™ platforms, integration between Apache Spark and other enterprise data sources, and case studies and examples of what can be achieved with Apache Spark in enterprise

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environments. It is of interest to data scientists, data engineers, enterprise architects, or anybody looking to better understand how to combine an analytics framework and platform on enterprise systems.

Learn about the fastest-growing

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**open source project in the world,
and find out how it revolutionizes**

big data analytics About This

Book Exclusive guide that covers

how to get up and running with

fast data processing using

Apache Spark Explore and exploit

various possibilities with Apache

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**Spark using real-world use cases
in this book Want to perform
efficient data processing at real
time? This book will be your one-
stop solution. Who This Book Is
For This guide appeals to big
data engineers, analysts,
architects, software engineers,**

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even technical managers who need to perform efficient data processing on Hadoop at real time. Basic familiarity with Java or Scala will be helpful. The assumption is that readers will be from a mixed background, but would be typically people with

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**background in engineering/data
science with no prior Spark**

experience and want to

**understand how Spark can help
them on their analytics journey.**

What You Will Learn Get an

**overview of big data analytics and
its importance for organizations**

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and data professionals Delve into
Apache Spark 2 X Java APLe
Spark to see how it is different
from existing processing
platforms Understand the
intricacies of various file formats,
and how to process them with
Apache Spark. Realize how to
deploy Spark with YARN, MESOS

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or a Stand-alone cluster manager.
Learn the concepts of Spark SQL,
SchemaRDD, Caching and
working with Hive and Parquet
file formats Understand the
architecture of Spark MLlib
while discussing some of the off-
the-shelf algorithms that come

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with Spark. Introduce yourself to
the deployment and usage of
SparkR. Walk through the
importance of Graph computation
and the graph processing systems
available in the market Check the
real world example of Spark by
building a recommendation

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**engine with Spark using ALS. Use
a Telco data set, to predict
customer churn using Random
Forests. In Detail Spark
juggernaut keeps on rolling and
getting more and more
momentum each day. Spark
provides key capabilities in the**

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**form of Spark SQL, Spark
Streaming, Spark ML and Graph
X all accessible via Java, Scala,
Python and R. Deploying the key
capabilities is crucial whether it
is on a Standalone framework or
as a part of existing Hadoop
installation and configuring with**

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Yarn and Mesos. The next part of the journey after installation is using key components, APIs, Clustering, machine learning APIs, data pipelines, parallel programming. It is important to understand why each framework component is key, how widely it is

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being used, its stability and pertinent use cases. Once we understand the individual components, we will take a couple of real life advanced analytics examples such as 'Building a Recommendation system', 'Predicting customer

churn' and so on. The objective of these real life examples is to give the reader confidence of using Spark for real-world problems. Style and approach With the help of practical examples and real-world use cases, this guide will take you from scratch to building

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efficient data applications using Apache Spark. You will learn all about this excellent data processing engine in a step-by-step manner, taking one aspect of it at a time. This highly practical guide will include how to work with data pipelines, dataframes,

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**clustering, SparkSQL, parallel
programming, and such**

**insightful topics with the help of
real-world use cases.**

**Combine advanced analytics
including Machine Learning,
Deep Learning Neural Networks
and Natural Language Processing**

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Big Data At Scale Using
with modern scalable
technologies including Apache
Spark to derive actionable
insights from Big Data in real-
time Key Features Make a hands-
on start in the fields of Big Data,
Distributed Technologies and
Machine Learning Learn how to

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**design, develop and interpret the
results of common Machine
Learning algorithmsUncover
hidden patterns in your data in
order to derive real actionable
insights and business valueBook
Description Every person and
every organization in the world**

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Big Data At Scale Using
manages data, whether they
realize it or not. Data is used to
describe the world around us and
can be used for almost any
purpose, from analyzing
consumer habits to fighting
disease and serious organized
crime. Ultimately, we manage

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data in order to derive value from
it, and many organizations
around the world have
traditionally invested in
technology to help process their
data faster and more efficiently.
But we now live in an
interconnected world driven by

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mass data creation and consumption where data is no longer rows and columns restricted to a spreadsheet, but an organic and evolving asset in its own right. With this realization comes major challenges for organizations: how

do we manage the sheer size of data being created every second (think not only spreadsheets and databases, but also social media posts, images, videos, music, blogs and so on)? And once we can manage all of this data, how do we derive real value from it?

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**The focus of Machine Learning
with Apache Spark is to help us
answer these questions in a
hands-on manner. We introduce
the latest scalable technologies
to help us manage and process
big data. We then introduce
advanced analytical algorithms**

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applied to real-world use cases in order to uncover patterns, derive actionable insights, and learn from this big data. What you will learn
Understand how Spark fits in the context of the big data ecosystem
Understand how to deploy and configure a local

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development environment using
Apache Spark Understand how to
design supervised and
unsupervised learning
models Build models to perform
NLP, deep learning, and cognitive
services using Spark ML
libraries Design real-time

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**machine learning pipelines in
Apache Spark**

**Become familiar
with advanced techniques for
processing a large volume of data
by applying machine learning
algorithms**

**Who this book is for
This book is aimed at Business
Analysts, Data Analysts and Data**

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**Scientists who wish to make a
hands-on start in order to take
advantage of modern Big Data
technologies combined with
Advanced Analytics.**

**Machine Learning with Apache
Spark Quick Start Guide
Quickly Learn the Art of Writing**

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**Efficient Big Data Applications
with Apache Spark**

Spark Cookbook

**Over 60 recipes for implementing
big data processing and analytics
using Apache Spark and Python**

Apache Spark Quick Start Guide

Practical Apache Spark

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Build data-intensive applications locally and deploy at scale using the combined powers of Python and Spark 2.0 About This Book Learn why and how you can efficiently use Python to process data and build machine learning

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Big Data At Scale Using
models in Apache Spark 2.0
Apache Spark 2 X Java APIs

Develop and deploy efficient,
scalable real-time Spark
solutions Take your
understanding of using Spark
with Python to the next level
with this jump start guide Who

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This Book Is 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

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with Spark would be useful, but is not mandatory. What You Will Learn Learn about Apache Spark and the Spark 2.0 architecture Build and interact with Spark DataFrames using Spark SQL Learn how to solve graph and

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deep learning problems using
GraphFrames and TensorFrames
respectively Read, transform,
and understand data and use it
to train machine learning models
Build machine learning models
with MLlib and ML Learn how to

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submit your applications
programmatically using spark-
submit Deploy locally built
applications to a cluster In Detail
Apache Spark is an open source
framework for efficient cluster
computing with a strong

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interface for data parallelism
and fault tolerance. This book
will show you how to leverage
the power of Python and put it
to use in the Spark ecosystem.
You will start by getting a firm
understanding of the Spark 2.0

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architecture and 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

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capabilities of PySpark. Also, you will get a thorough overview of machine learning capabilities of PySpark using ML and MLlib, graph processing using GraphFrames, and polyglot persistence using Blaze. Finally,

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you will learn how to deploy
your applications to the cloud
using the spark-submit
command. By the end of this
book, you will have established a
firm understanding of the Spark
Python API and how it can be

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used to build data-intensive applications. Style and approach
This book takes a very comprehensive, step-by-step approach so you understand how the Spark ecosystem can be used with Python to develop

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efficient, scalable solutions.

Every chapter is standalone and
written in a very easy-to-
understand manner, with a focus
on both the hows and the whys
of each concept.

Uncover patterns, derive

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actionable insights, and learn
from big data using MLlib
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