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~~Real-time~~

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and Apache Spark

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Jobs and Code

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not pipelines —

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~~real-time
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~~Azure~~

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~~Introduction~~

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~~using Python~~

~~with PySpark~~

Real-Time Spark

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Analysis |

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Apache Spark

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~~Spark in 8 Hours~~

~~+ Apache Spark~~

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\u0026 Hadoop

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and Spark

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for Beginners |

Edureka

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~~Covid 19 Data~~

~~with Apache~~

~~Spark~~ Advanced

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The authors
bring Spark,
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methods, and
real-world data
sets together to
teach you how to
approach
analytics
problems by
example. You'll
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Spark and its

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ecosystem, and then dive into patterns that apply common techniques—classification, collaborative filtering, and anomaly detection among others—to fields such as genomics, security, and

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book, four Cloudera data scientists present a set of self-contained patterns for performing large-scale data analysis with Spark. The authors bring Spark, statistical methods, and

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real-world data sets together to teach you how to approach

analytics

problems by example. You'll start with an introduction to Spark and its ecosystem, and then dive into patterns that apply common tec

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Techniques—classification, collaborative filtering, and anomaly detection ...

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The first

chapter will

place Spark

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within the wider context of data science and big data analytics.

After that, each chapter will comprise a self-contained analysis using Spark. The second chapter will introduce the basics of data processing

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Analytics With
Scala through a
use case in data
cleansing.

From Data At
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Delivery.

Building the
right Advanced
Analytics

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platform first
time, on-time
and under budget
does not need to
be a fantasy.

With the right
support,

patterns and
partner,

delivering the
right solution,
first time is a
reality. We can
help you bridge

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the gap between

Enterprise

Architects and

Developers with

our Cloud

Solution

Architectures.

Advancing

Analytics

We build on the

modern data

warehouse

pattern to add

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new capabilities

and extend the

data use case

into driving

advanced

analytics and

model training.

Data scientists

are using our

Azure Machine

Learning

capabilities in

this way to test

experimental

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models against
large,
historical, and
factual data
sets to provide
more breadth and
credibility to
model scores.

*Implementation
patterns for big
data and data
warehouse on ...*

Protect your

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investments with
a future-proof
architecture.

The first
integration
platform to
implement

MapReduce, YARN,
Spark and Storm.

This Excerpt
contains

Chapters 1 and 2
of the book

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complete book is
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edition of this practical book, four Cloudera data scientists present a set of self-contained patterns for performing large-scale data analysis with Spark. The authors bring Spark, statistical

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methods, and
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problems by
example.

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Analytics with
Spark, 2nd
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The authors
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bring Spark, statistical methods, and real-world data sets together to teach you how to approach analytics problems by example. You'll start with an introduction to Spark and its ecosystem, and

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then dive into patterns that apply common techniques—classification, collaborative filtering, and anomaly detection among others—to fields such as genomics, security, and finance.

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The authors of
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Analytics with Spark put down their favorite case studies and patterns for sorting and handling tremendous amounts of data. These patterns get very complex like estimating financial risk and offering

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custom music
suggestions with
Audioscrobbler .

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Azure Analysis
Services is an
enterprise grade
analytics as a
service that

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lets you govern,
deploy, test,
and deliver your
BI solution with
confidence.

Power BI is a
suite of
business
analytics tools
that deliver
insights
throughout your
organization.

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hundreds of data sources, simplify data prep, and drive ad hoc analysis.

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problems by
Spark Patterns
example. Updated
For Learning,
for Spark 2.1,
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this edition
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acts as an
introduction to
these techniques
and other best
practices in
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programming.
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Introduction to Spark and its ecosystem, and then dive into patterns that apply common techniques—including classification, clustering, collaborative filtering, and anomaly detection—to

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genomics,

security, and

finance. If you

have an entry-

level

understanding of

machine learning

and statistics,

and you program

in Java, Python,

or Scala, you'll

find the book's

patterns useful

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for working on
your own data
applications.
With this book,
you will:
Familiarize
yourself with
the Spark
programming
model Become
comfortable
within the Spark
ecosystem Learn
general

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Advanced

approaches in
data science
Examine complete
implementations
that analyze
large public
data sets

Discover which
machine learning
tools make sense
for particular
problems Acquire
code that can be
adapted to many

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uses

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analysis with
Spark. The
authors bring

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sets together to
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teach you how to
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analytics
problems by
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then dive into patterns that apply common techniques—classification, collaborative filtering, and anomaly detection among others—to fields such as genomics, security, and finance. If you

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have an entry-level understanding of machine learning and statistics, and you program in Java, Python, or Scala, you'll find these patterns useful for working on your own data applications.

Patterns

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Analytics With

include:
Recommending
music and the
Audioscrobbler

data set

Predicting

forest cover

with decision

trees Anomaly

detection in

network traffic

with K-means

clustering

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networks with
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analysis on the

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Taxi Trips data

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financial risk

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through Monte
Carlo simulation
Analyzing
genomics data
and the BDG
project
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You'll start with an introduction to Spark and its ecosystem, and then dive into patterns that apply common techniques including classification, clustering, collaborative filtering, and

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anomaly detection to fields such as genomics, security, and finance. If you have an entry-level understanding of machine learning and statistics, and you program in Java, Python, or Scala, you'll

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Solve Data

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Spark, PySpark,

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Source Tools

Spark is at the

heart of today's

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Big Data With

revolution,

helping data

professionals

supercharge

efficiency and

performance in a

wide range of

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and analytics

tasks. In this

guide, Big Data

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Aven covers all

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you need to know
to leverage
Spark, together
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extensions,
subprojects, and
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Aven combines a

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introduction to

foundational

Spark concepts

with extensive

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utilizing the
For Learning
popular and
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From Data At
PySpark
Scale
development
environment.

This guide's
focus on Python
makes it widely
accessible to
large audiences
of data

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professionals,
analysts, and
developers—even
those with
little Hadoop or
Spark
experience.

Aven's broad
coverage ranges
from basic to
advanced Spark
programming, and
Spark SQL to
machine

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learn how to efficiently

manage all forms

of data with

Spark:

streaming,

structured, semi-

structured, and

unstructured.

Throughout,

concise topic

overviews

quickly get you

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up to speed, and
extensive hands-
on exercises
prepare you to
solve real
problems.

Coverage

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Understand

Spark's evolving
role in the Big
Data and Hadoop
ecosystems •

Create Spark

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clusters using
various
deployment modes

- Control and

optimize the

operation of

Spark clusters

and applications

- Master Spark

Core RDD API

programming

techniques •

Extend,

accelerate, and

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optimize Spark
routines with
advanced API
platform

constructs,
including shared
variables, RDD
storage, and
partitioning •

Efficiently
integrate Spark
with both SQL
and
nonrelational

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data stores • With

Perform stream processing and messaging with

Spark Streaming

and Apache Kafka

- Implement

predictive

modeling with

SparkR and Spark

MLlib

The amount of

data being

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generated today is staggering--and growing. Apache Spark has emerged as the de facto tool to analyze big data and is now a critical part of the data science toolbox. Updated for Spark 3.0, this practical

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guide brings
together Spark,
statistical
methods, and
real-world
datasets to
teach you how to
approach
analytics
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PySpark, Spark's
Python API, and
other best
practices in

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Akash Tandon,
Sandy Ryza, Uri
Laserson, Sean
Owen, and Josh
Wills offer an
introduction to
the Spark
ecosystem, then
dive into
patterns that
apply common tec

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techniques—including

classification,
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security, and

finance. This

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also covers NLP

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and image With

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and statistics

and you program

in Python, this

book will get

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large-scale data

analysis.

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general
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data science
Examine complete
implementations
that analyze
large public
datasets
Discover which
machine learning

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tools make sense
for particular
problems Explore
code that can be
adapted to many
uses

Big Data

Analytics with
Spark is a step-
by-step guide
for learning
Spark, which is
an open-source

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fast and general-purpose cluster computing framework for large-scale data analysis. You will learn how to use Spark for different types of big data analytics projects, including batch, interactive,

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graph, and
stream data
analysis as well
as machine
learning. In
addition, this
book will help
you become a
much sought-
after Spark
expert. Spark is
one of the
hottest Big Data
technologies.

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The amount of data generated today by devices, applications and users is exploding.

Therefore, there is a critical need for tools that can analyze large-scale data and unlock value from it. Spark

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is a powerful
technology that
meets that need.

You can, for
example, use
Spark to perform
low latency
computations
through the use
of efficient
caching and
iterative
algorithms;
leverage the

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features of its shell for easy and interactive Data analysis; employ its fast batch processing and low latency features to process your real time data streams and so on. As a result, adoption of Spark is rapidly

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growing and is
replacing Hadoop
MapReduce as the
technology of
choice for big
data analytics.

This book
provides an
introduction to
Spark and
related big-data
technologies. It
covers Spark
core and its add-

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Analytics With

on libraries, including Spark

SQL, Spark

Streaming,

GraphX, and

MLlib. Big Data

Analytics with

Spark is

therefore

written for busy

professionals

who prefer

learning a new

technology from

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Analytics With
a consolidated
source instead
of spending
countless hours
on the Internet
trying to pick
bits and pieces
from different
sources. The
book also
provides a
chapter on
Scala, the
hottest

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functional

programming

language, and

the program that

underlies Spark.

You'll learn the

basics of

functional

programming in

Scala, so that

you can write

Spark

applications in

it. What's more,

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Big Data With

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an introduction

to other big

data

technologies

that are

commonly used

along with

Spark, like

Hive, Avro,

Kafka and so on.

So the book is

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self-sufficient;

all the Spark Patterns

technologies

that you need to

know to use

Spark are

covered. The

only thing that

you are expected

to know is

programming in

any language.

There is a

critical

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shortage of
people with big
data expertise,
so companies are
willing to pay
top dollar for
people with
skills in areas
like Spark and
Scala. So
reading this
book and
absorbing its
principles will

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Analytics With

provide a
boost—possibly a
big boost—to
your career.

From Data At

Scale

Data is bigger,
arrives faster,
and comes in a
variety of
formats—and it
all needs to be
processed at
scale for
analytics or

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machine learning. But how can you process such varied workloads efficiently? Enter Apache Spark. Updated to include Spark 3.0, this second edition shows data engineers and data scientists why

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structure and
unification in
Spark Patterns
Spark matters.
For Learning
Specifically,
From Data At
Scale
this book
explains how to
perform simple
and complex data
analytics and
employ machine
learning
algorithms.
Through step-by-
step walk-

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throughs, code snippets, and notebooks, you'll be able to: Learn Python, SQL, Scala, or Java high-level Structured APIs Understand Spark operations and SQL Engine Inspect, tune, and debug Spark

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operations with

Spark

Spark Patterns

configurations

For Learning

and Spark UI

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sources: JSON,

Parquet, CSV,

Avro, ORC, Hive,

S3, or Kafka

Perform

analytics on

batch and

streaming data

using Structured

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Streaming Build

reliable data

pipelines with

open source

Delta Lake and

Spark Develop

machine learning

pipelines with

MLlib and

productionize

models using

MLflow

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Analytics With
Harness the
power of Scala
to program Spark
and analyze
tonnes of data
in the blink of
an eye! About
This Book Learn
Scala's
sophisticated
type system that
combines
Functional

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Programming and
object-oriented
concepts Work on
a wide array of
applications,
from simple
batch jobs to
stream

processing and
machine learning
Explore the most
common as well
as some complex
use-cases to

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perform large-scale data analysis with Spark Who This Book Is For
Anyone who wishes to learn how to perform data analysis by harnessing the power of Spark will find this book extremely useful. No

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knowledge of
Spark or Scala
is assumed,
although prior
programming
experience
(especially with
other JVM
languages) will
be useful to
pick up concepts
quicker. What
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& functional

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concepts of

Scala In-depth

understanding of

Scala collection

APIs Work with

RDD and

DataFrame to

learn Spark's

core

abstractions

Analysing

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structured and
unstructured
data using
SparkSQL and
GraphX Scalable
and fault-
tolerant
streaming
application
development
using Spark
structured
streaming Learn
machine-learning

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best practices
for
classification,
regression,
dimensionality
reduction, and
recommendation
system to build
predictive
models with
widely used
algorithms in
Spark MLlib & ML
Build clustering

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Scale

models to
cluster a vast
amount of data
Understand

tuning,
debugging, and
monitoring Spark
applications

Deploy Spark

applications on
real clusters in

Standalone,

Mesos, and YARN

In Detail Scala

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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

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widely in
productions.

Thus, if you
want to leverage

the power of

Scala and Spark
to make sense of

big data, this

book is for you.

The first part

introduces you

to Scala,

helping you

understand the

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Analytics Oriented

Spark Patterns For Learning

From Data At

Scale

object-oriented
and functional
programming
concepts needed
for Spark
application
development. It
then moves on to
Spark to cover
the basic
abstractions
using RDD and
DataFrame. This
will help you

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Advanced

develop scalable

and fault-

tolerant

streaming

applications by

analyzing

structured and

unstructured

data using

SparkSQL,

GraphX, and

Spark structured

streaming.

Finally, the

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Advanced

book moves on to some advanced topics, such as monitoring, configuration, debugging, testing, and deployment. You will also learn how to develop Spark applications using SparkR and PySpark APIs,

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interactive data
analytics using
Zeppelin, and in-
memory data

processing with
Alluxio. By the
end of this

book, you will
have a thorough
understanding of
Spark, and you
will be able to
perform full-
stack data

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Advanced

analytics with a
feel that no
amount of data
is too big.

Style and
approach Filled
with practical
examples and use
cases, this book
will not only
help you get up
and running with
Spark, but will
also take you

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Advanced

Analytics With
the road to becoming
a data
scientist.

From Data At

Scale

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