

Read Book
Learning Apache
Cassandra
***Learning
Apache
Cassandra
Manage Fault
Tolerant
And
Scalable***

Read Book

Learning Apache

***Real Time
Data***

The second
volume of the
book series

highlights works
presented at the
2nd International
Conference on
Real Time

Read Book
Learning Apache
Cassandra
Intelligent
Manage Fault
Systems, held in
Tolerant And
Casablanca on
Scalable Real
October 18-20,
Time Data
2017. The book
offers a
comprehensive,
practical review
of the state-of-
the-art in
designing and
implementing

Read Book Learning Apache Cassandra

real-time
Manage Fault
Tolerant And
Scalable Real
Time Data

the areas within
the conference ' s
scope such as
robotics,
intelligent alert
systems, IoT,
remote access
control, multi-
agent systems,

Read Book Learning Apache Cassandra

networking,
mobile smart
systems,
crowdsourcing,
broadband

systems, cloud
computing,
streaming data
and many other
applications.

Research in real-
time computing

Read Book Learning Apache Cassandra

supports
decision making
in dynamic
environments.

Some examples
include ABS,
FBW flight
control,
automatic air-
conditioning, etc.
Intelligent
computing relies

Read Book
Learning Apache
Cassandra
heavily on
Manage Fault
artificial
Tolerant And
intelligence (AI)
Scalable Real
to make
Time Data
computers act
for humans. The
authors are
confident that
the solutions
discussed in this
book will provide
a unique source

Read Book
Learning Apache
Cassandra
of information
Manage Fault
Tolerant And
Scalable Real
Time Data
and inspiration
for researchers
working in AI,
distributed
coding
algorithms or
smart services
and platforms,
and for IT
professionals,
who can

Read Book
Learning Apache
Cassandra
integrate the
proposed
methods into
their practice.
Scale
Scale

applications with
high availability
and optimized
resource
management
across data
centers Key

Read Book
Learning Apache
Cassandra
Features Create
Manage Fault
Tolerant And
Scalable Real
Time Data
clusters and
perform
scheduling,
logging, and
resource
administration
with
Mesos Explore
practical
examples of
managing

Read Book

Learning Apache

Cassandra

complex clusters
at scale with real-
world dataWrite

native Mesos

frameworks with

PythonBook

Description

Apache Mesos is
an open source
cluster manager
that provides
efficient

Read Book
Learning Apache
Cassandra
resource

isolation and
sharing across
distributed
applications or
frameworks.

This book will
help you build a
strong
foundation of
Mesos'
capabilities along

Read Book
Learning Apache
Cassandra
with practical
examples to
support the
concepts
explained
throughout the
book. Learn
Apache Mesos
dives straight
into how Mesos
works. You will
be introduced to

Read Book Learning Apache

Cassandra
Manage Fault
Tolerant And
Scalable Real
Time Data

the distributed
system and its
challenges and
then learn how
you can use
Mesos and its
framework to
solve data
problems. You
will also gain a
full
understanding of

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Learning Apache
Cassandra
Manage Fault
Tolerant And
Scalable Real
Time Data

Mesos' internal mechanisms and get equipped to use Mesos and develop

applications.

Furthermore, this book lets you explore all the steps required to create highly

Read Book
Learning Apache
Cassandra
available clusters
Manage Fault
Tolerant And
Scalable Real
Time Data
and build your
own Mesos
frameworks. You
will also cover
application
deployment and
monitoring. By
the end of this
book, you will
have learned
how to use

Read Book

Learning Apache Cassandra

Mesos to make full use of machines and how to simplify data center maintenance.

What you will learn
Deploy and monitor a Mesos cluster
Set up servers on AWS
to deploy Mesos

Read Book
Learning Apache
Cassandra
components
Explore Mesos
resource
scheduling and
the allocation
module
Deploy
Docker-based
services and
applications
using Mesos
Marathon
Configure
and use SSL to

Read Book
Learning Apache
Cassandra
protect crucial
Manage Fault
endpoints of
Tolerant And
your Mesos
Scalable Real
cluster Debug and
Time Data
troubleshoot
services and
workloads on a
Mesos
cluster Who this
book is for This
book is for
DevOps and data

Read Book
Learning Apache
Cassandra
engineers and
administrators
who work with
large data
clusters. You ' ll

also find this
book useful if
you have
experience
working with
virtualization,
databases, and

Read Book
Learning Apache
Cassandra
platforms such
as Hadoop and
Spark. Some
experience in
database

administration
and design will
help you get the
most out of this
book.

Build and run
intelligent

Read Book
Learning Apache
Cassandra
applications by
Manage Fault
Tolerant And
Scalable Real
Time Data
About This Book
Develop a sound
strategy to solve
predictive
modelling
problems using
the most popular
machine learning

Read Book

Learning Apache Cassandra

Java libraries.

Explore a broad
variety of data
processing,
machine
learning, and

natural language
processing
through

diagrams, source
code, and real-
world

Read Book
Learning Apache
Cassandra
applications This
step-by-step
guide will help
you solve real-
world problems
and links neural
network theory
to their
application Who
This Book Is For
This course is
intended for data

Read Book
Learning Apache
Cassandra
scientists and
Manage Fault
Java developers
Tolerant And
who want to dive
Scalable Real
into the exciting
Time Data
world of deep
learning. It will
get you up and
running quickly
and provide you
with the skills
you need to
successfully

Read Book

Learning Apache Cassandra

create,
manage, fault
tolerant, and
deploy machine
learning

applications in
real life. What

You Will Learn

Get a practical
deep dive into
machine learning
and deep
learning

Read Book
Learning Apache
Cassandra
algorithms
Manage Fault
Tolerant And
Scalable Real
Time Data
Explore neural
networks using
some of the most
popular Deep
Learning
frameworks Dive
into Deep Belief
Nets and
Stacked
Denoising
Autoencoders

Read Book
Learning Apache
Cassandra
algorithms Apply
Manage Fault
machine learning
Tolerant And
to fraud,
Scalable Real
anomaly, and
Time Data
outlier detection
Experiment with
deep learning
concepts,
algorithms, and
the toolbox for
deep learning
Select and split

Read Book
Learning Apache
Cassandra
data sets into
training, test,
and validation,
and explore
validation

strategies Apply
the code
generated in
practical
examples,
including
weather

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forecasting and
pattern
recognition In
Detail Machine
learning

applications are
everywhere,
from self-driving
cars, spam
detection,
document
search, and

Read Book
Learning Apache
Cassandra
trading
strategies, to
speech recogniti
onStarting with
an introduction
to basic machine
learning
algorithms, this
course takes you
further into this
vital world of
stunning

Read Book
Learning Apache
Cassandra
predictive
Manage Fault
insights and
Tolerant And
remarkable
Scalable Real
machine
Time Data

intelligence. This
course helps you
solve challenging
problems in
image
processing,
speech
recognition,

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Learning Apache
Cassandra
language
Manage Fault
modeling. You
Tolerant And
will discover
Scalable Real
how to detect
Time Data
anomalies and
fraud, and ways
to perform
activity
recognition,
image
recognition, and
text. You will

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also work with
examples such
as weather
forecasting,
disease
diagnosis,
customer
profiling,
generalization,
extreme machine
learning and
more. By the end

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Learning Apache
Cassandra
of this course,
Manage Fault
you will have all
Tolerant And
the knowledge
Scalable Real
you need to
Time Data
perform deep
learning on your
system with
varying
complexity
levels, to apply
them to your
daily work. The

Read Book
Learning Apache
Cassandra
course provides
you with highly
practical content
explaining deep
learning with
Java, from the
following Packt
books: Java
Deep Learning
Essentials
Machine
Learning in Java

Read Book
Learning Apache
Cassandra
Neural Network
Manage Fault
Programming
Tolerant And
with Java,
Scalable Real
Second Edition
Time Data
Style and

approach This
course aims to
create a smooth
learning path
that will teach
you how to
effectively use

Read Book
Learning Apache
Cassandra
deep learning
Manage Fault
Tolerant And
Scalable Real
Time Data

with Java with
other de facto
components to
get the most out
of it. Through
this
comprehensive
course, you'll
learn the basics
of predictive
modelling and

Read Book
Learning Apache
Cassandra
progress to
Manage Fault
solve real-world
Tolerant And
problems and
Scalable Real
links neural
Time Data
network theory
to their
application
Develop,
Implement and
Tuneup your
Machine
Learning

Read Book Learning Apache Cassandra

applications
using the power
of Java
programming

About This Book
Detailed

coverage on key
machine learning
topics with an
emphasis on both
theoretical and
practical aspects

Read Book
Learning Apache
Cassandra

Address
Manage Fault
predictive
Tolerant And
modeling
Scalable Real
Time Data
problems using
the most popular
machine learning
Java libraries A
comprehensive
course covering
a wide spectrum
of topics such as
machine learning

Read Book
Learning Apache
Cassandra
and natural
language through
practical use-
cases Who This
Book Is For This
course is the
right resource
for anyone with
some knowledge
of Java
programming
who wants to get

Read Book
Learning Apache
Cassandra
started with Data
Manage Fault
Science and
Tolerant And
Machine learning
Scalable Real
as quickly as
Time Data
possible. If you
want to gain
meaningful
insights from big
data and develop
intelligent
applications
using Java, this

Read Book

Learning Apache Cassandra

course is also a
must-have. What
You Will Learn
Understand key
data analysis

techniques
centered around
machine learning
Implement Java
APIs and various
techniques such
as classification,

Read Book
Learning Apache
Cassandra
clustering,
Manage Fault
anomaly
Tolerant And
detection, and
Scalable Real
more Master key
Time Data
Java machine
learning
libraries, their
functionality, and
various kinds of
problems that
can be addressed
using each of

Read Book
Learning Apache
Cassandra
them Apply
Manage Fault
machine learning
Tolerant And
to real-world
Scalable Real
data for fraud
Time Data
detection,
recommendation
engines, text
classification,
and human
activity
recognition
Experiment with

Read Book
Learning Apache
Cassandra
semi-supervised
learning and
stream-based
data mining,
building high-
performing and
real-time
predictive
models Develop
intelligent
systems
centered around

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various domains
such as security,
Internet of
Things, social
networking, and
more In Detail
Machine

Learning is one
of the core area
of Artificial
Intelligence
where computers

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Learning Apache Cassandra

are trained to self-learn, grow, change, and develop on their own without being explicitly programmed. In this course, we cover how Java is employed to build powerful machine learning

Read Book
Learning Apache
Cassandra
models to
Manage Fault
Tolerant And
Scalable Real
Time Data
world of Data
Science. The
course
demonstrates
complex data
extraction and
statistical
analysis

Read Book
Learning Apache
Cassandra
techniques
supported by
Java, applying
various machine
learning
methods,
exploring
machine learning
sub-domains, and
exploring real-
world use cases
such as

Read Book
Learning Apache
Cassandra
recommendation
Manage Fault
Tolerant And
Scalable Real
Time Data
systems, fraud
detection, natural
language
processing, and
more, using Java
programming.
The course
begins with an
introduction to
data science and
basic data

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science tasks
such as data
collection, data
cleaning, data
analysis, and
data
visualization.

The next section
has a detailed
overview of
statistical
techniques,

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Learning Apache
Cassandra
covering
Manage Fault
machine
Tolerant And
learning, neural
Scalable Real
networks, and
Time Data
deep learning.

The next couple
of sections cover
applying machine
learning methods
using Java to a
variety of chores
including

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Cassandra
Manage Fault
Tolerant And
Scalable Real
Time Data

classifying,
predicting,
forecasting,
market basket
analysis,
clustering
stream learning,
active learning,
semi-supervised
learning,
probabilistic
graph modeling,

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Learning Apache Cassandra

text mining, and
deep learning.

The last section
highlights real-
world test cases
such as

performing
activity
recognition,
developing image
recognition, text
classification,

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Learning Apache
Cassandra
and anomaly
Manage Fault
detection. The
Tolerant And
course includes
Scalable Real
premium content
Time Data
from three of our
most popular
books: Java for
Data Science
Machine
Learning in Java
Mastering Java
Machine

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Learning On
completion of
this course, you
will understand
various machine
learning
techniques,
different
machine learning
java algorithms
you can use to
gain data

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Learning Apache
Cassandra
insights, building
Manage Fault
data models to
Tolerant And
analyze larger
Scalable Real
complex data
Time Data
sets, and
incubating
applications
using Java and
machine learning
algorithms in the
field of artificial
intelligence.

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Cassandra
Style and
Manage Fault
Tolerant And
Scalable Real
Time Data

approach This
comprehensive
course proceeds

from being a
tutorial to a
practical guide,
providing an
introduction to
machine learning
and different
machine learning

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Learning Apache
Cassandra
techniques,
Manage Fault
exploring
Tolerant And
machine learning
Scalable Real
with Java
Time Data
libraries, and
demonstrating
real-world
machine learning
use cases using
the Java
platform.
Lecture Notes in

Read Book
Learning Apache
Cassandra
Real-Time
Manage Fault
Intelligent
Tolerant And
Systems
Scalable Real
Real-time
Time Data
streaming
applications with
Apex
Learning Apache
Cassandra -
Second Edition
Learn Apache
Mesos

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Learning Apache
Cassandra
Questions with
Manage Fault
Detailed
Tolerant And
Explanation
Scalable Real
Data Analysis,
Time Data
Machine
Learning, and
Neural Networks
simplified

*This book includes
the outcomes of the
International
Conference on*

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Learning Apache
Cassandra
*Advanced Intelligent
Manage Fault
Systems for
Tolerant And
Sustainable
Scalable Real
Development
Time Data*

*(AI2SD-2018), held
in Tangier, Morocco
on July 12–14, 2018.
Presenting the latest
research in the field
of computing
sciences and
information*

Read Book
Learning Apache
Cassandra

technology, it discusses new challenges and provides valuable insights into the field, the goal being to stimulate debate, and to promote closer interaction and interdisciplinary collaboration between researchers

Read Book
Learning Apache
Cassandra

and practitioners.

*Though chiefly
intended for
researchers and
practitioners in*

*advanced
information
technology
management and
networking, the book
will also be of
interest to those*

Read Book
Learning Apache
Cassandra
*engaged in emerging
fields such as data
science and
analytics, big data,
internet of things,
smart networked
systems, artificial
intelligence, expert
systems and cloud
computing.*

*What could you do
with data if*

Read Book
Learning Apache
Cassandra

*scalability wasn't a
problem? With this
hands-on guide,
you'll learn how*

*Apache Cassandra
handles hundreds of
terabytes of data
while remaining
highly available
across multiple data
centers --*

capabilities that

Read Book
Learning Apache
Cassandra

*have attracted
Facebook, Twitter,
and other data-
intensive companies.*

*Cassandra: The
Definitive Guide
provides the
technical details and
practical examples
you need to assess
this database
management system*

Read Book
Learning Apache
Cassandra
*and put it to work in
a production
environment. Author
Eben Hewitt
demonstrates the
advantages of
Cassandra's
nonrelational
design, and pays
special attention to
data modeling. If
you're a developer,*

Read Book
Learning Apache
Cassandra
DBA, application
Manage Fault
architect, or
Tolerant And
manager looking to
Scalable Real
Time Data

*solve a database
scaling issue or
future-proof your
application, this
guide shows you
how to harness
Cassandra's speed
and flexibility.*

Understand the

Read Book Learning Apache Cassandra

tenets of

Cassandra's column-oriented structure

Learn how to write, update, and read

Cassandra data

Discover how to add or remove nodes

from the cluster as your application

requires Examine a working application

Read Book
Learning Apache
Cassandra
*that translates from
a relational model to
Cassandra's data
model Use examples
for writing clients in
Java, Python, and
C# Use the JMX
interface to monitor
a cluster's usage,
memory patterns,
and more Tune
memory settings,*

Read Book
Learning Apache
Cassandra

*data storage, and
caching for better
performance*

*With the growing
use of new*

*technologies and
artificial intelligence
(AI) applications,
intelligent systems
can be used to
manage large
amounts of existing*

Read Book
Learning Apache
Cassandra
data in healthcare
Manage Fault
domains. Having
Tolerant And
more intelligent
Scalable Real
Time Data
methods for
accessing data

allows medical
professionals to
more efficiently
identify the best
medical practices
and more concrete
solutions for

Read Book
Learning Apache
Cassandra
diagnosing and
Manage Fault
treating a multitude
Tolerant And
of rare diseases.
Scalable Real
Intelligent Systems
Time Data
for Healthcare
Management and
Delivery provides
relevant and
advanced
methodological,
technological, and
scientific

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Learning Apache
Cassandra
*approaches related
to the application of
sophisticated
exploitation of AI, as
well as providing
insight into the
technologies and
intelligent
applications that
have received
growing attention in
recent years such as*

Read Book Learning Apache

*Cassandra
medical imaging,
Manage Fault
EMR systems, and
Tolerant And
Scalable Real
Time Data*

*assistance. This
publication fosters a
scientific debate for
new healthcare
intelligent systems
and sophisticated
approaches for
enhanced healthcare
services and is*

Read Book
Learning Apache
Cassandra
*ideally designed for
medical
professionals,
hospital staff,
rehabilitation*

*specialists, medical
educators, and
researchers.*

*Learn about the
fastest-growing open
source project in the
world, and find out*

Read Book
Learning Apache
Cassandra
*how it revolutionizes
big data analytics*
Manage Fault-
Tolerant And
Scalable Real-
Time Data
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 Spark
using real-world use

Read Book Learning Apache Cassandra

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,

Read Book

Learning Apache Cassandra

*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*

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Cassandra
Manage Fault
Tolerant And
Scalable Real
Time Data
*typically people with
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*

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Cassandra
Manage Fault
Tolerant And
Scalable Real
Time Data

*analytics and its
importance for
organizations and
data professionals
Delve into Spark to
see how it is
different from
existing processing
platforms*

*Understand the
intricacies of various
file formats, and how*

Read Book
Learning Apache
Cassandra
*to process them with
Apache Spark.
Realize how to
deploy Spark with
YARN, MESOS or a
Stand-alone cluster
manager. Learn the
concepts of Spark
SQL, SchemaRDD,
Caching and
working with Hive
and Parquet file*

Read Book
Learning Apache
Cassandra
*formats Understand
the architecture of
Spark MLLib while
discussing some of
the off-the-shelf
algorithms that come
with Spark.*
*Introduce yourself to
the deployment and
usage of SparkR.*
*Walk through the
importance of Graph*

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Learning Apache
Cassandra
*computation and the
graph processing
systems available in
the market Check the
real world example
of Spark by building
a recommendation
engine with Spark
using ALS. Use a
Telco data set, to
predict customer
churn using Random*

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*Forests. In Detail
Spark juggernaut
keeps on rolling and
getting more and
more momentum
each day. Spark
provides key
capabilities in the
form of Spark SQL,
Spark Streaming,
Spark ML and
Graph X all*

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Learning Apache
Cassandra.
*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
Yarn and Mesos. The
next part of the*

Read Book Learning Apache Cassandra

*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,*

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Learning Apache
Cassandra
Manage Fault
Tolerant And
Scalable Real
Time Data

*how widely it is
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*

Read Book
Learning Apache
Cassandra
*system', 'Predicting
Manage Fault
customer churn' and
Tolerant And
so on. The objective
Scalable Real
of these real life
Time Data
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-*

Read Book
Learning Apache
Cassandra
world use cases, this
Manage Fault
Tolerant And
Scalable Real
Time Data
guide will take you
from scratch to
building 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

Read Book

Learning Apache Cassandra

time. This highly practical guide will include how to work with data pipelines, dataframes, clustering, SparkSQL, parallel programming, and such insightful topics with the help of real-world use cases.

Apache Cassandra

Read Book
Learning Apache
Cassandra
Certification

Practice Material :
2019
Learn Cassandra in
24 Hours

Beginning Apache
Cassandra
Development

A Biological
Perspective

Algorithmic Aspects
of Cloud Computing

Read Book
Learning Apache
Cassandra

*An expert guide to
improving database
scalability and
availability without
compromising
performance, 3rd
Edition*

Build, manage, and
configure high-
performing, reliable
NoSQL database for
your applications with
Cassandra Key Features

Read Book

Learning Apache Cassandra

Write programs more efficiently using Cassandra's features with the help of examples

Configure Cassandra and fine-tune its parameters depending on your needs

Integrate Cassandra database with Apache Spark and build strong data analytics pipeline

Book Description With ever-increasing rates of data creation, the

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Learning Apache Cassandra

demand for storing data fast and reliably becomes a need. Apache

Cassandra is the perfect choice for building fault-tolerant and scalable

databases. Mastering Apache Cassandra 3.x teaches you how to build and architect your

clusters, configure and work with your nodes, and program in a high-throughput

Read Book

Learning Apache Cassandra

environment, helping you understand the power of Cassandra as per the new features.

Once you've covered a brief recap of the basics, you'll move on to deploying and monitoring a production setup and optimizing and integrating it with other software. You'll work with the advanced features of CQL and the

Read Book

Learning Apache Cassandra

new storage engine in order to understand how they function on the server-side. You'll explore the integration and interaction of Cassandra components, followed by discovering features such as token allocation algorithm, CQL3, vnodes, lightweight transactions, and data modelling in detail. Last but not least

Read Book
Learning Apache
Cassandra
you will get to grips with
Manage Spark. By the
end of this book, you'll
be able to analyse big
data, and build and
manage high-
performance databases
for your application.
What you will learn
Write programs more
efficiently using
Cassandra's features
more efficiently Exploit
the given infrastructure,

Read Book

Learning Apache

Cassandra
improve performance,
Manage Fault
Virtual Machine (JVM)
Use CQL3 in your
application in order to
simplify working with
Cassandra Configure
Cassandra and fine-tune
its parameters depending
on your needs Set up a
cluster and learn how to
scale it Monitor a
Cassandra cluster in
different ways Use

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Apache Spark and other
big data processing tools

Who this book is for

Mastering Apache

Cassandra 3.x is for you if
you are a big data

administrator, database
administrator, architect,
or developer who wants
to build a high-
performing, scalable, and
fault-tolerant database.

Prior knowledge of core
concepts of databases is

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required.

With new technologies, such as computer vision, internet of things, mobile computing, e-governance and e-commerce, and wide applications of social media, organizations generate a huge volume of data and at a much faster rate than several years ago. Big data in large-/small-scale

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systems, characterized by high volume, diversity, and velocity, increasingly drives decision making and is changing the landscape of business intelligence. From governments to private organizations, from communities to individuals, all areas are being affected by this shift. There is a high demand for big data

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analytics that offer insights for computing efficiency, knowledge discovery, problem solving, and event prediction. To handle this demand and this increase in big data, there needs to be research on innovative and optimized machine learning algorithms in both large- and small-scale systems.

Applications of Big Data

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Cassandra
in Large- and Small-Scale
Manage Fault
Systems includes state-of-
Tolerant And
the-art research findings
Scalable Real
on the latest
Time Data
development, up-to-date
issues, and challenges in
the field of big data and
presents the latest
innovative and intelligent
applications related to big
data. This book
encompasses big data in
various multidisciplinary
fields from the medical

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field to agriculture, business research, and smart cities. While highlighting topics including machine learning, cloud computing, data visualization, and more, this book is a valuable reference tool for computer scientists, data scientists and analysts, engineers, practitioners, stakeholders, researchers,

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academicians, and students interested in the versatile and innovative use of big data in both large-scale and small-scale systems.

This book presents deep learning techniques, concepts, and algorithms to classify and analyze big data. Further, it offers an introductory level understanding of the new programming languages

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Cassandra
and tools used to analyze
big data in real-time,
such as Hadoop,
SPARK, and GRAPHX.
Big data analytics using
traditional techniques
face various challenges,
such as fast, accurate and
efficient processing of big
data in real-time. In
addition, the Internet of
Things is progressively
increasing in various
fields, like smart cities,

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Manage Fault
Tolerant And
Scalable Real
Time Data

smart homes, and e-health. As the enormous number of connected devices generate huge amounts of data every day, we need sophisticated algorithms to deal, organize, and classify this data in less processing time and space. Similarly, existing techniques and algorithms for deep learning in big data field

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have several advantages thanks to the two main branches of the deep learning, i.e. convolution and deep belief networks. This book offers insights into these techniques and applications based on these two types of deep learning. Further, it helps students, researchers, and newcomers understand big data analytics based on deep learning

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approaches. It also discusses various machine learning techniques in concatenation with the deep learning paradigm to support high-end data processing, data classifications, and real-time data processing issues. The classification and presentation are kept quite simple to help the readers and students

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grasp the basics concepts of various deep learning paradigms and frameworks. It mainly focuses on theory rather than the mathematical background of the deep learning concepts. The book consists of 5 chapters, beginning with an introductory explanation of big data and deep learning techniques, followed by

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integration of big data
and deep learning
techniques and lastly the
future directions.

With the far-reaching
global impact of the
COVID-19 pandemic,
the demand and the
necessity for digital
enterprise transformation
have accelerated
exponentially.

Management and
strategies for the

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adoption and wider usage of newer digital technologies for the transformation of an enterprise through digital tools such as real-time video communications have shown that people no longer need to be required to be physically present in the same place; rather, they can be geographically dispersed. Technologies such as

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artificial intelligence, cloud computing, digital banking, and cloud data have taken over tasks that were initially done by human hands and have increased both the automation and efficiency of tasks and the accessibility of information and services. Inclusion of all these newer technologies has shown the fast pace at

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which the digital
enterprise transformation
is rapidly evolving and
how new ecosystems are
reshaping the digital
enterprise model.

Disruptive Technology
and Digital

Transformation for
Business and

Government presents
interesting research on
digital enterprise
transformation at

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different stages and across different settings within government and industry, along with key issues and deeper insights on the core problems and developing solutions and recommendations for digital enterprise transformation. The chapters examine the three core leaders of transformation: the people such as managers,

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employees, and customers; the digital technology such as artificial intelligence and robotics; and the digital enterprise, including the products and services being transformed. They unravel the underlying process for management and strategies to fully incorporate new digital tools and technologies across all aspects of an

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enterprise undergoing transformation. This book is ideally intended for managers, executives, IT consultants, business professionals, government officials, researchers, students, practitioners, stakeholders, academicians, and anyone else looking to learn about new developments in digital

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enterprise transformation
Manage Fault
of business systems from
a global perspective.

Cassandra: The
Definitive Guide
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design, build, and deploy
powerful machine
learning applications in
Java, 2nd Edition

Mastering Apache
Cassandra - Second

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Edition
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Data Analytics
ICT Systems-Theory,
Radio-Electronics,
Information
Technologies and
Cybersecurity (Volume
5)

**This book
addresses the
challenges and**

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Time Data

**opportunities of
information/data
processing and
management. It
also covers a
range of
methods,
techniques and
strategies for
making it more
efficient,
approaches to**

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increasing its
Manage Fault
usage, and ways
Tolerant And
to minimize
Scalable Real
information/data
Time Data
loss while
improving
customer
satisfaction.

Information and
Communication
Technologies
(ICTs) and the

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**Service Systems
associated with
them have had
an enormous
impact on
businesses and
our day-to-day
lives over the
past three
decades, and
continue to do
so. This**

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**development has
led to the
emergence of
new application
areas and
relevant
disciplines,
which in turn
present new
challenges and
opportunities for
service system**

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usage. The book
Manage Fault
provides
Tolerant And
practical insights
Scalable Real
into various
Time Data
aspects of ICT
technologies for
service systems:
Techniques for
information/data
processing and
modeling in
service systems

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information/data
processing and
management
Methods for
collecting and
analyzing
information/data
Applications,
benefits, and
challenges of**

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**service system
implementation
Solutions to
increase the
performance of
various service
systems using
the latest ICT
technologies**
This book is a
step by step
beginners guide

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to learning
Manage Fault
Cassandra. The
Tolerant And
book uses tons
Scalable Real
of charts, graphs,
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images and code
to aid your
Cassandra
learning. The
book gives a
detailed
introduction to
Cassandra. It

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proceeds to give
step-by-step
instructions to
installing
Cassandra.
Cassandra
Architecture and
Replication
Factor Strategy
is lucidly
explained. Data
Modelling,

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**Keyspace CQL
are also
described in
detail. The book
will teach you
enough to get
started with
Cassandra. Here
is what is
included Table
Of Content
Chapter 1:**

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Introduction 1.

Cassandra

History 2. Nosql

Cassandra

Database 3.

Nosql Cassandra

Database Vs

Relational

databases 4.

Apache

Cassandra

Features 5.

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**Cassandra Use
Cases Chapter 2:
Download and
Install 1.**

**Prerequisite for
Apache
Cassandra
Installation 2.**

**How to Download
and Install
Cassandra
Chapter 3:**

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**Architecture 1.
Components of
Cassandra 2.
Data Replication
3. Write**

**Operation 4.
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Chapter 4: Data
Model and Rules**

**1. Cassandra
Data Model Rules
2. Model Your**

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**Data in
Cassandra 3.
Handling One to
One Relationship
4. Handling one
to many
Relationship 5.
Handling Many to
Many
Relationship
Chapter 5:
Cassandra CQL**

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- 1. Create, Alter & Drop Keyspace**
- 2. Cassandra Table: Create, Alter, Drop & Truncate**
- 3. Cassandra Query Language(CQL): Insert, Update, Delete, Read Data**
- 4. Create & Drop INDEX**
- 5.**

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Time Data

**Data Types &
Expiration 6.
SET, LIST & MAP
Chapter 6:
Cassandra
Cluster 1.
Prerequisites for
Cassandra
Cluster 2.
Enterprise
Edition
Installation 3.**

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**Starting
Cassandra Node
Chapter 7:
DevCenter &
OpsCenter
Installation 1.
DevCenter
Installation 2.
OpsCenter
Installation
Chapter 8:
Security 1. What**

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**is Internal
Authentication
and
Authorization 2.
Configure**

**Authentication
and**

Authorization 3.

Logging in 4.

Create New User

5. Authorization

6. Configuring

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Firewall 7.

**Enabling JMX
Authentication**

**Imagine what you
could do if**

**scalability wasn't
a problem. With**

**this hands-on
guide, you'll**

**learn how the
Cassandra**

database

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**management
system handles
hundreds of
terabytes of data
while remaining
highly available
across multiple
data centers.**

**This revised third
edition--updated
for Cassandra 4.0
and new**

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the Cassandra
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deployments in
Kubernetes with
K8ssandra--provi
des technical
details and
practical
examples to help
you put this

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in a production
environment.**
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**Authors Jeff
Carpenter and
Eben Hewitt
demonstrate the
advantages of
Cassandra's
nonrelational
design, with
special attention**

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to data modeling.
Developers,
DBAs, and
application
architects

looking to solve a
database scaling
issue or future-
proof an
application will
learn how to
harness

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**Cassandra's
speed and
flexibility.**

**Understand
Cassandra's
distributed and
decentralized
structure Use the
Cassandra Query
Language (CQL)
and cqlsh (the
CQL shell) Create**

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a working data
model and
compare it with
an equivalent
relational model
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applications
using client
drivers Explore
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and learn how

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your cluster
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onsite, in the
cloud, or with
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Kubernetes
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**Cassandra with
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Elasticsearch,
Solr, and Lucene
Designing and
writing a real-
time streaming
publication with
Apache Apex
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Get a clear,
practical**

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Tolerant And
Scalable Real
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**approach to real-
time data
processing
Program Apache
Apex streaming
applications This
book shows you
Apex integration
with the open
source Big Data
ecosystem Who
This Book Is For**

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**This book
assumes
knowledge of
application
development
with Java and
familiarity with
distributed
systems.
Familiarity with
other real-time
streaming**

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frameworks is not required, but some practical experience with other big data processing utilities might be helpful. What You Will Learn Put together a functioning Apex application from

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**scratch Scale an
Apex application
and configure it
for optimal
performance
Understand how
to deal with
failures via the
fault tolerance
features of the
platform Use
Apex via other**

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frameworks such
as Beam
Manage Fault
Tolerant And
Understand the
Scalable Real
DevOps
Time Data
implications of
deploying Apex
In Detail Apache
Apex is a next-
generation
stream
processing
framework

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**designed to
operate on data
at large scale,
with minimum
latency,
maximum
reliability, and
strict correctness
guarantees. Half
of the book
consists of Apex
applications,**

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Time Data

**showing you key
aspects of data
processing
pipelines such as
connectors for
sources and
sinks, and
common data
transformations.
The other half of
the book is
evenly split into**

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Cassandra
**explaining the
Apex framework,
and tuning,
testing, and
scaling Apex
applications.
Much of our
economic world
depends on
growing streams
of data, such as
social media**

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Cassandra
**feeds, financial
records, data
from mobile
devices, sensors
and machines
(the Internet of
Things - IoT). The
projects in the
book show how
to process such
streams to gain
valuable, timely,**

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Cassandra

**and actionable
insights.**

**Traditional use
cases, such as
ETL, that
currently
consume a
significant chunk
of data
engineering
resources are
also covered.**

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Cassandra

The final chapter shows you future possibilities

emerging in the streaming space,

and how Apache Apex can

contribute to it.

Style and

approach This

book is divided

into two major

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parts: first it explains what Apex is, what its relevant parts are, and how to write well-built Apex applications. The second part is entirely application-driven, walking you

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through Apex
Managed Fault
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**A Developer's
Approach
IC3 2018
Machine
Learning with
Apache Spark
Quick Start
Guide**

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Cassandra
Distributed Data
Manage Fault
at Web Scale
Tolerant And
Learning Spark
Scalable Real
Machine
Time Data
Learning in Java

If you're an
application developer
familiar with SQL
databases such as
MySQL or Postgres,
and you want to
explore distributed
databases such as

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Cassandra, this is the perfect guide for you. Even if you've never worked with a distributed database before, Cassandra's intuitive programming interface coupled with the step-by-step examples in this book will have you building highly scalable persistence layers for your applications in no

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time.

**This book constitutes
the thoroughly
refereed post-
conference
proceedings of the
Second International
Workshop on
Algorithmic Aspects of
Cloud Computing,
ALGO CLOUD 2016,
held in Aarhus,
Denmark, in August
2016. The 11 revised**

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full papers presented together with one tutorial paper were carefully reviewed and selected from 30 initial submissions. They deal with the following topics: algorithmic aspects of elasticity and scalability for distributed, large-scale data stores (e.g. NoSQL and columnar databases); search and

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retrieval algorithms
Manage Fault
for cloud
Tolerant And
infrastructures;
Scalable Real
monitoring and
Time Data
analysis of elasticity
for virtualized
environments; NoSQL,
schemaless data
modeling, integration;
caching and load-
balancing; storage
structures and
indexing for cloud
databases; new

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**algorithmic aspects of
parallel and**

distributed computing

for cloud applications;

scalable machine

learning, analytics and

data science; high

availability, reliability,

failover; transactional

models and algorithms

for cloud databases;

query languages and

processing

programming models;

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Cassandra
**consistency,
replication and
partitioning CAP, data
structures and
algorithms for
eventually consistent
stores.**

**Build a scalable, fault-
tolerant and highly
available data layer for
your applications
using Apache
Cassandra About This
Book Install**

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Cassandra
and set up
multi-node clusters
Design rich schemas
that capture the
relationships between
different data types
Master the advanced
features available in
Cassandra 3.x through
a step-by-step tutorial
and build a scalable,
high performance
database layer Who
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you are a NoSQL
developer and new to
Apache Cassandra
who wants to learn its
common as well as not-
so-common features,
this book is for you.
Alternatively, a
developer wanting to
enter the world of
NoSQL will find this
book useful. It does
not assume any prior
experience in coding or

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**any framework. What
You Will Learn Install**

Cassandra Create

keyspaces and tables

with multiple

clustering columns to

organize related data

Use secondary indexes

and materialized views

to avoid

denormalization of

data Effortlessly

handle concurrent

updates with collection

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**columns Ensure data
integrity with**

lightweight And

transactions Real

logged batches

**Understand eventual
consistency and use
the right consistency
level for your situation**

**Understand data
distribution with**

**Cassandra Develop
simple application**

using Java driver and

**Read Book
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Cassandra
implement application-
level optimizations In
Detail Cassandra is a
distributed database
that stands out thanks
to its robust feature
set and intuitive
interface, while
providing high
availability and
scalability of a
distributed data store.
This book will
introduce you to the**

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Cassandra
rich feature set offered
by Cassandra, and
empower you to create
and manage a highly
scalable, performant
and fault-tolerant
database layer. The
book starts by
explaining the new
features implemented
in Cassandra 3.x and
get you set up with
Cassandra. Then you'll
walk through data

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modeling in Cassandra
Manage Fault
Tolerant Arch
Scalable Real
Time Data

and the rich feature set available to design a flexible schema. Next you'll learn to create tables with composite partition keys, collections and user-defined types and get to know different methods to avoid denormalization of data. You will then proceed to create user-

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Cassandra
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Tolerant And
Scalable Real
Time Data

defined functions and aggregates in Cassandra. Then, you will set up a multi-node cluster and see how the dynamics of Cassandra change with it. Finally, you will implement some application-level optimizations using a Java client. By the end of this book, you'll be fully equipped to build

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Cassandra
powerful, scalable
Manage Fault
Tolerant And
Available Real
Time Data
Cassandra database
layers for your
applications. Style and
approach This book
takes a step-by- step
approach to give you
basic to intermediate
knowledge of Apache
Cassandra. Every
concept is explained in
depth, and is
supplemented with
practical examples

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when required.

”Eric and Russell were early adopters of Cassandra at SimpleReach. In Practical Cassandra, you benefit from their experience in the trenches administering Cassandra, developing against it, and building one of the first CQL drivers. If you are deploying

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Cassandra soon, or you inherited a Cassandra cluster to tend, spend some time with the deployment, performance tuning, and maintenance chapters... If you are new to Cassandra, I highly recommend the chapters on data modeling and CQL.”

**–From the Foreword
by Jonathon Ellis,**

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**Apache Cassandra
Chair Build and
Deploy Massively
Scalable, Super-fast
Data Management
Applications with
Apache Cassandra
Practical Cassandra is
the first hands-on
developer's guide to
building Cassandra
systems and
applications that
deliver breakthrough**

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speed, scalability,
Manage Fault
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Scalable Real
Time Data
reliability, and
performance. Fully up
to date, it reflects the
latest versions of
Cassandra—including
Cassandra Query
Language (CQL),
which dramatically
lowers the learning
curve for Cassandra
developers. Pioneering
Cassandra developers
and Datastax MVPs

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Russell Bradberry and
Eric Lubow walk you
through every step of
building a real
production application
that can store
enormous amounts of
structured, semi-
structured, and
unstructured data.
Drawing on their
exceptional expertise,
Bradberry and Lubow
share practical

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insights into issues
Manage Fault
ranging from querying
Tolerant And
to deployment,
Scalable Real
management,
Time Data
maintenance,
monitoring, and
troubleshooting. The
authors cover key
issues, from
architecture to
migration, and guide
you through crucial
decisions about
configuration and data

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Modeling. They
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Tolerance And
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provide tested sample
code, detailed
explanations of how
Cassandra works
”under the covers,”
and new case studies
from three cutting-
edge users: Ooyala,
Hailo, and eBay.
Coverage includes
Understanding
Cassandra's approach,
architecture, key

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Manage Fault
use cases– and why it's
Tolerant And
so blazingly fast
Getting Cassandra up
Source: Real
and running on single
Time Data
nodes and large
clusters Applying the
new design patterns,
philosophies, and
features that make
Cassandra such a
powerful data store
Leveraging CQL to
simplify your

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for each type of
workload Tweaking
Cassandra to get
maximum
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your hardware, OS,

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and application
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Data-Centric Business
and Applications
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Networks with Java
Learning Apache
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Scalable Real
Social Network
Forensics, Cyber
Security, and Machine
Learning
Practical Cassandra
Build, package,
and deploy**

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applications as
Manage Fault
easily
Tolerant And
manageable and
Scalable Real
shippable
Time Data.

About This Book
Discover the
secret to
building highly
portable apps
that run on any
machine with
Windows Server

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2016 anywhere,
from laptops,
desktop
servers, and
public or
private clouds,
without any
changes to the
code Build your
company cost-
effective,
container-based
apps that

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Cassandra
support large-
Manage Fault
scale, virtual
Tolerant And
cloud
Scalable Real
environments

Time Data
The most up-to-
date help on
the market,
offering
developers
expert guidance
in building and
shipping high-
quality apps,

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and also
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helping admins
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create
Scalable Real
infrastructure
Time Data
that's simple
to maintain Who
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is for
application
developers with
a basic
programming

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knowledge of
Manage Fault
C#, ASP.NET,
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and PowerShell.
IT
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or DevOps
engineers with
basic
PowerShell
experience can
benefit by
extending their
learning to use

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PowerShell to
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containers on
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Windows
Time Data
environments
and use
additional
management
tools. What You
Will Learn
Build and
deploy ASP.NET
web

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applications as
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Windows
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Containers on
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Windows 10
Time Data
(Desktop) and
Azure using
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2015, Docker,
and PowerShell
Build and
manage custom
images using
Windows Server

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Core base OS
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image and
Docker CLI,
publish images
to Docker, tag
images, author
Docker files,
and so on
Create enterpri
se-scale, produ
ction-grade
container
environments

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containers and
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Time Data
containers with
storage
volumes, set up
custom
container
networks,
continuous
integration,
and deployment

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Cassandra
pipelines using
Manage Fault
VSTS, Azure,
Tolerant And
and Git Deploy
Scalable Real
a composite
Time Data
container
environment
using Docker
Compose on
Windows Learn
to build
applications
using
Microsoft's

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Cassandra
thinnest server
platform - Nano
Manage Fault
Tolerant And
Servers. Build
Scalable Real
Time Data
custom Nano
Server images
and Nano
Containers
using Windows
PowerShell and
configure using
PowerShell
Core, DSC In
Detail Windows

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Containers are independent, isolated, manageable and portable application environments which are light weight and shippable. Decomposing your

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Cassandra
application
Manage Fault
Tolerant And
Scalable Real
Time Data
MicroServices
helps in
building
scalable and
distributed
application
environments.
Windows Server
Containers have

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Cassandra
Manage Fault
Tolerant And
Scalable Real
Time Data

a significant
impact on
application
developers,
development
operations
(DevOps) and
infrastructure
management
teams.

Applications
can be built,
shipped and

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Cassandra
Manage Fault
Tolerant And
Scalable Real
Time Data

deployed in a
fast-paced
manner on an
easily
manageable and
updatable
environment.
Learning
Windows Server
Containers
teaches you to
build simple to
advanced

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production
Manage Fault
grade container
Tolerant And
based
Scalable Real
application
Time Data
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Core, Visual
Studio, Azure,
Docker and
PowerShell
technologies.
The book
teaches you to
build and

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deploy simple
Manage Fault
web
Tolerant And
applications as
Scalable Real
Windows and
Time Data
Hyper-V
containers on
Windows 10 and
Windows Server
2016 on Azure.
You will learn
to build on top
of Windows
Container Base

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Cassandra
OS Images,
Manage Fault
Tolerant And
Scalable Real
Time Data
Hub, create
custom images
and publish to
Hub. You will
also learn to
work with
storage
containers
built using

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Cassandra
Volumes and SQL
Manage Fault
Server as
Tolerant And
Scalable Real
Time Data
container,
create and
configure
custom
networks,
integrate with
Redis Cache
containers,
configure
continuous
integration and

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Cassandra
deployment
pipelines using
VSTS and Git
Repository.
Further you can
also learn to
manage
resources for a
container,
setting up
monitoring and
diagnostics,
deploy

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Cassandra
composite
Manage Fault
Tolerant And
Scalable Real
Time Data

container
environments
using Docker

Compose on
Windows and
manage
container
clusters using
Docker Swarm.
The last
chapter of the
book focuses on

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Cassandra
building
Manage Fault
applications
Tolerant And
using
Scalable Real
Microsoft's new
Time Data
and thinnest
server platform
- Nano Servers.
Style and
approach This
hands-on
tutorial helps
you get started
with Windows

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containers, the new trend in the container market. This example-driven guide is packed with real-world scenarios of Windows Server containers in production environments.

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Learning Apache Cassandra

Data is bigger,
arrives faster,
and comes in a
variety of
formats—and it
all needs to be
processed at
scale for
analytics or
machine
learning. But
how can you
process such

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varied

workloads

efficiently?

Enter Apache

Spark. Updated

to include

Spark 3.0, this

second edition

shows data

engineers and

data scientists

why structure

and unification

Read Book Learning Apache Cassandra in Spark Manage Fault matters.

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

Through step-by-

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Cassandra
step walk-
Manage Fault
Tolerant And
Scalable Real
Time Data

throughs, code
snippets, and
notebooks,
you'll be able

to: Learn
Python, SQL,
Scala, or Java
high-level
Structured APIs
Understand
Spark
operations and

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Cassandra
SQL Engine
Manage Fault
Tolerant And
Scalable Real
Time Data
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

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Cassandra
analytics on
batch and
streaming data
using
Structured
Streaming Build

reliable data
pipelines with
open source
Delta Lake and
Spark Develop
machine
learning

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Leverage the
power of Java
and its
associated
machine
learning
libraries to
build powerful

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models Key
Features Solve
predictive
modeling
problems using
the most
popular machine
learning Java
libraries
Explore data
processing,
machine

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Cassandra
learning, and
Manage Fault
NLP concepts
Tolerant And
using JavaML,
Scalable Real
WEKA, MALLET li
Time Data
brariesPractica
l examples,
tips, and
tricks to help
you understand
applied machine
learning in
JavaBook
Description As

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the amount of data in the world continues to grow at an almost incomprehensible rate, being able to understand and process data is becoming a key differentiator for competitive organizations.

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Machine
learning
applications
are everywhere,
from self-
driving cars,
spam detection,
document
search, and
trading
strategies, to
speech
recognition.

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This makes
machine
learning well-
suited to the
present-day era
of big data and
Data Science.
The main
challenge is
how to
transform data
into actionable
knowledge.

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Machine

Learning in

Java will

provide you

with the

techniques and
tools you need.

You will start
by learning how

to apply

machine

learning

methods to a

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variety of
Manage Fault
Tolerant And
Scalable Real
Time Data
common tasks
including
classification,
prediction,
forecasting,
market basket
analysis, and
clustering. The
code in this
book works for
JDK 8 and
above, the code

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Cassandra
is tested on
Manage Fault
JDK 11. Moving
Tolerant And
on, you will
Scalable Real
discover how to
Time Data
detect
anomalies and
fraud, and ways
to perform
activity
recognition,
image
recognition,
and text

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analysis. By the end of the book, you will have explored related web resources and technologies that will help you take your learning to the next level. By applying the most effective

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Cassandra
machine
Manage Fault
learning
Tolerant And
methods to real-
Scalable Real
Time Data
world problems,
you will gain
hands-on
experience that
will transform
the way you
think about
data. What you
will
learnDiscover

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key Java
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Tolerant And
learning librar
ies Implement
Scalable Real
Time Data
concepts such
as
classification,
regression, and
clusteringDevel
op a customer
retention
strategy by
predicting

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likely churn
Manage Fault candidatesBuild
Tolerant And a scalable
Scalable Real recommendation
Time Data engine with
Apache
MahoutApply
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learning to
fraud, anomaly,
and outlier det
ectionExperimen
t with deep

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concepts and
Tolerant And
algorithmsWrite
Scalable Real
your own
Time Data
activity
recognition
model for
eHealth
applicationsWho
this book is
for If you want
to learn how to
use Java's

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Manage Fault
learning
Tolerant And
libraries to
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gain insight
from your data,
this book is
for you. It
will get you up
and running
quickly and
provide you
with the skills
you need to

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Cassandra
successfully
Manage Fault
create,
Tolerant And
customize, and
Scalable Real
Time Data
deploy machine
learning

applications
with ease. You
should be
familiar with
Java
programming and
some basic data
mining concepts

Read Book Learning Apache Cassandra to make the Manage Fault Tolerant And Scalable Real Time Data

most of this
book, but no
prior

experience with
machine
learning is
required.

Learn how to
integrate full-
stack open
source big data
architecture

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Cassandra
and to choose
the correct tec
hнологy—Scala/S
park, Mesos,
Akka, Data

Cassandra, and
Kafka—in every
layer. Big data
architecture is
becoming a
requirement for
many different
enterprises. So

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far, however, the focus has largely been on collecting, aggregating, and crunching large data sets in a timely manner. In many cases now, organizations need more than one paradigm to

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perform
Manage Fault
efficient
Tolerant And
analyses. Big
Scalable Real
Data SMACK
Time Data
explains each
of the full-
stack
technologies
and, more
importantly,
how to best
integrate them.

It provides

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Cassandra
detailed
Manage Fault
coverage of the
Tolerant And
practical
Scalable Real
benefits of
Time Data
these
technologies
and
incorporates
real-world
examples in
every
situation. This
book focuses on

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Cassandra
Manage Fault
Tolerant And
Scalable Real
Time Data

the problems
and scenarios
solved by the
architecture,
as well as the
solutions
provided by
every
technology. It
covers the six
main concepts
of big data
architecture

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and how
Manage Fault
integrate,
Tolerant And
replace, and
Scalable Real
reinforce every
Time Data
layer: The
language: Scala
The engine:
Spark (SQL,
MLib,
Streaming,
GraphX) The
container:
Mesos, Docker

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The view: Akka

The storage:

Cassandra The

message broker:

Kafka What You

Will Learn:

Make big data

architecture

without using

complex Greek

letter

architectures

Build a cheap

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but effective
cluster
Tolerant And
infrastructure
Scalable Real
Time Data
Make queries,
reports, and
graphs that
business
demands Manage
and exploit
unstructured
and No-SQL data
sources Use
tools to

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monitor the
Manage Fault
performance of
Tolerant And
your
Scalable Real
architecture
Time Data
Integrate all
technologies
and decide
which ones
replace and
which ones
reinforce Who
This Book Is
For:

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Cassandra
Developers,
Manage Fault
data
Tolerant And
architects, and
Scalable Real
data scientists
Time Data
looking to
integrate the
most successful
big data open
stack
architecture
and to choose
the correct
technology in

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every layer
Manage Fault
Optimization of
Tolerant And
Trustworthy
Scalable Real
Time Data
Quantitative
Analysis Using
Cyber-Physical
Microfluidic
Platforms
Expert Apache
Cassandra
Administration
Mastering

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Apache
Cassandra 3.x -
Manage Fault
Tolerant And
Third Edition
Scalable Real
Time Data
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Apache Spark,
Mesos, Akka,
Cassandra, and
Kafka
Learning
Windows Server
Containers
Intelligent
Systems for

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Healthcare
Manage Fault
Management and
Tolerant And
Delivery

This book discusses the issues and challenges in Online Social Networks (OSNs). It highlights various aspects of OSNs consisting of novel social network strategies and the development of

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services using
Manage Fault
different computing
Tolerant And
models. Moreover,
Searchable Real
the book
Time Data
investigates how
OSNs are impacted
by cutting-edge
innovations.
This book presents
high-quality papers
from an
international forum
for research on
computational

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approaches to
Manage Fault
Tolerant Arch
Source: Best
Time Data**

**learning. It includes
current research
and findings from
various research
labs, universities
and institutions that
may lead to
development of
marketable
products. It also
provides solid
support for these
findings in the form**

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Cassandra

of empirical studies,
theoretical analysis,

or comparison to

psychological

phenomena.

Further, it features

work that shows

how to apply

learning methods to

solve important

application

problems as well as

how machine

learning research is

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Cassandra
conducted. The
book is divided into
two main parts:
Machine Learning
Techniques, which
covers machine
learning-related
research and
findings; and, Data
Analytics, which
introduces recent
developments in
this domain.
Additionally, the

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**book includes work
on data analytics**

using machine

learning techniques.

**This updated and
expanded second**

edition of the

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Fault Tolerant and

Scalable Real-Time

**Data provides a user-
friendly introduction**

to the subject

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Taking a clear
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framework, it guides
the reader through
the subject's core
elements. A flowing
writing style
combines with the
use of illustrations
and diagrams
throughout the text
to ensure the reader
understands even
the most complex of

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Tolerance And
Secure Real
Time Data**

**concepts. This
succinct and
enlightening
overview is a
required reading for
all those interested
in the subject . We
hope you find this
book useful in
shaping your future
career & Business.
Achieve scalability
and high availability
without**

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compromising on
performance About
This Book See how
to get 100 percent
uptime with your
Cassandra
applications using
this easy-follow
guide Learn how to
avoid common and
not-so-common
mistakes while
working with
Cassandra using

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Cassandra

**this highly practical
guide Get familiar**

**with the intricacies
of working with**

**Cassandra for high
availability in your**

work environment

with this go-to-guide

Who This Book Is

For If you are a

developer or

DevOps engineer

who has basic

familiarity with

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Cassandra
Manage Fault
Tolerant As
Synchronous
Time Data

**Cassandra and you
want to become an
expert at creating
highly available,
fault tolerant
systems using
Cassandra, this
book is for you.**

What You Will Learn
**Understand how the
core architecture of
Cassandra enables
highly available
applications Use**

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Cassandra
replication and
Manage Fault
tolerant
Tunable consistency
levels to balance
consistency,
availability, and
performance Set up
multiple data
centers to enable
failover, load
balancing, and
geographic
distribution Add
capacity to your
cluster with zero

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Cassandra
downtime Take
Manage Fault
advantage of high
Tolerant Arch
availability features
Scalable Peer
in the native driver
- Create data models
Time Data
that scale well and
maximize availability
Understand
common anti-
patterns so you can
avoid them Keep
your system
working well even
during failure

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Cassandra
**scenarios In Detail
Manage Fault
Apache Cassandra**

**is a massively
scalable, peer-to-
peer database
designed for 100
percent uptime, with
deployments in the
tens of thousands of
nodes, all
supporting
petabytes of data.
This book offers a
practical insight into**

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Cassandra

building highly available, real-world applications using Apache Cassandra.

The book starts with the fundamentals, helping you to understand how Apache Cassandra's architecture allows it to achieve 100 percent uptime when other systems struggle to do so.

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You'll get an excellent understanding of data distribution, replication, and Cassandra's highly tunable consistency model. Then we take an in-depth look at Cassandra's robust support for multiple data centers, and you'll see how to scale out a cluster.

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Next, the book explores the domain of application design, with chapters discussing the native driver and data modeling.

Lastly, you'll find out how to steer clear of common anti-patterns and take advantage of Cassandra's ability to fail gracefully.

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Cassandra

Style and approach
This practical guide
will get you

implementing

Cassandra right
from the design to
creating highly
available systems.

Through a
systematic, step-by-
step approach, you
will learn different
aspects of building
highly available

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Cassandra
Manage Fault
Tolerance and
Scalability
Time Data

Cassandra applications and all this with the help of easy-to-follow examples, tips, and tricks.

**Machine Learning:
End-to-End guide
for Java developers
Cassandra 3.x High
Availability
Learning Apache
Spark 2
Learning Apache**

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**Cassandra - Manage
Fault Tolerant and
Scalable Real-Time
Data**
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approach, this
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Scalable Real
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Scalable Real-Time
Data provides a
user-friendly
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subject, Taking a
clear structural
framework, it
guides the reader
through the

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subject's core
Manage Fault
Tolerant And
Scalable Real
Time Data
elements. A flowing
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use of illustrations
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throughout the text
to ensure the
reader understands
even the most
complex of
concepts. This
succinct and

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enlightening
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overview is a
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required reading for
Scalable Real
advanced graduate-
Time Data
Level students. We
hope you find this
book useful in
shaping your future
career. Feel free to
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Cassandra
Rise Press
Manage Fault
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Tolerant And
Cassandra
Scalable Real
Development
Time Data

Introduces you to one of the most robust and best-performing NoSQL database platforms on the planet.

Apache Cassandra is a document database following

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Cassandra
the JSON document
Manage Fault
Tolerant And
Scalable Real
Time Data
model. It is
specifically
designed to
manage large
amounts of data
across many
commodity servers
without there being
any single point of
failure. This design
approach makes
Apache Cassandra

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Cassandra
a robust and easy-
to-implement
platform when high
availability is
needed. Apache
Cassandra can be
used by developers
in Java, PHP,
Python, and
JavaScript—the
primary and most
commonly used
languages. In

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Cassandra
Beginning Apache
Manage Fault
Tolerant And
Development,
author and
Scalable Real

Time Data
Cassandra expert
Vivek Mishra takes
you through using
Apache Cassandra
from each of these
primary languages.
Mishra also covers
the Cassandra
Query Language

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Cassandra
(CQL), the Apache
Manage Fault
Cassandra analog
Tolerant And
to SQL. You'll learn
Scalable Real
to develop
Tim Data
applications

sourcing data from
Cassandra, query
that data, and
deliver it at speed
to your
application's users.

Cassandra is one of
the leading NoSQL

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Cassandra
databases, meaning
you get
Manage Fault
Tolerant And
unparalleled
Scalable Real
throughput and
Time Data
performance
without the sort of
processing
overhead that
comes with
traditional
proprietary
databases.

Beginning Apache

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Management And
Development will
therefore help you
create applications
that generate
search results
quickly, stand up to
high levels of
demand, scale as
your user base
grows, ensure
operational
simplicity, and—not

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Cassandra
Manage Fault
Tolerant And
Scalable Real
Time Data

least—provide
delightful user
experiences.
Imagine what you
could do if
scalability wasn't a
problem. With this
hands-on guide,
you'll learn how the
Cassandra
database
management
system handles

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Cassandra
Manage Fault
Tolerant And
Scalable Real
Time Data

hundreds of terabytes of data while remaining highly available across multiple data centers. This expanded second edition—updated for Cassandra 3.0—provides the technical details and practical examples you need

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Cassandra
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Tolerant And
Scalable Real
Time Data

to put this database
to work in a
production
environment.

Authors Jeff

Carpenter and Eben
Hewitt demonstrate
the advantages of
Cassandra's non-
relational design,
with special
attention to data
modeling. If you're

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Cassandra
a developer, DBA,
Manage Fault
or application
Tolerant And
architect looking to
Scalable Real
solve a database
Time Data
scaling issue or
future-proof your
application, this
guide helps you
harness
Cassandra's speed
and flexibility.
Understand
Cassandra's

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Cassandra
distributed and
decentralized
structure Use the
Cassandra Query
Language (CQL)
and cqlsh—the CQL
shell Create a
working data model
and compare it with
an equivalent
relational model
Develop sample
applications using

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Cassandra
client drivers for
languages including
Java, Python, and
Node.js Explore
cluster topology
and learn how
nodes exchange
data Maintain a
high level of
performance in
your cluster Deploy
Cassandra on site,
in the Cloud, or with

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Cassandra
Docker Integrate
Manage Fault
Tolerant And
Scalable Real
Time Data
and Lucene

Build a scalable,
fault-tolerant and
highly available
data layer for your
applications using
Apache
Cassandra About
This Book* Install

Read Book
Learning Apache
Cassandra and use
it to set up multi-
node clusters*
Design rich
schemas that
capture the
relationships
between different
data types* Master
the advanced
features available
in Cassandra 3.x
through a step-by-

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Cassandra
step tutorial and
Manage Fault
Tolerant And
Scalable Real
Time Data
Who
This Book Is For
If
you are a first-time
user of Apache
Cassandra who
wants to learn the
basic of it, as well
as some not-so-
basic features, this
book is for you. It

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Learning Apache Cassandra

does not assume
any prior
experience in
coding or any
framework. What

you will learn*

Install Cassandra
and create your
first keyspace*

Create tables with
multiple clustering
columns to organize
related data* Use

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Learning Apache Cassandra

secondary indexes
and materialized
views to avoid
denormalization of
data* Effortlessly
handle concurrent
updates with
collection columns*
Ensure data
integrity with
lightweight
transactions and
logged batches*

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Cassandra
Understand
Manage Fault
eventual
Tolerant And
consistency and
Scalable Real
use the right
Time Data
consistency level
for your situation*
Understand data
distribution with
Cassandra and get
to know ways to
implement
application-level
optimizationsIn

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Cassandra is a distributed database that stands out thanks to its robust feature set and intuitive interface, while still providing the high availability and scalability of a distributed store. This book will introduce you to

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the rich features offered by Cassandra, and empower you to create and manage a highly performant, fault-tolerant database layer. The book starts by explaining the new features implemented in Cassandra 3.x,

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Cassandra
you'll see how to
Manage Fault
Tolerant And
Scalable Real
Time Data
Transactions. Next
you'll learn to
create tables with
composite partition
keys, and get to
know different
methods to avoid
denormalization of

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data. You will then proceed to create user-defined functions and data distribution in Cassandra. Finally, you will set up a multi node cluster and implement application-level optimization using a Java client. By the end of this book,

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Cassandra
you'll be fully
equipped to build
powerful, scalable
Cassandra

database layers for
your applications.

Volume 5:
Advanced
Intelligent Systems
for Computing
Sciences

Mastering Apache
Cassandra : Build,

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Manage, and
Configure High-
performing,
Reliable NoSQL
Database for Your
Application with
Cassandra
Disruptive
Technology and
Digital
Transformation for
Business and
Government

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Applications of Big
Data in Large- and
Small-Scale
Systems
Manage Fault
Tolerant And
Scalable Real
Time Data

A beginner's guide
to scalable cluster
management and
deployment

Deep Learning:
Convergence to Big
Data Analytics

**Build, manage,
and configure**

Read Book

Learning Apache

Cassandra

**high-performing,
reliable NoSQL**

database for

your applications

with Cassandra

Key

Features Write

programs more

efficiently using

Cassandra's

features with the

help of examples

Configure

Cassandra and

Read Book
Learning Apache
Cassandra
**fine-tune its
parameters
depending on
your
needs**
Integrate
Cassandra
database with
Apache Spark
and build strong
data analytics
pipeline

Book
Description With
ever-increasing
rates of data

Read Book
Learning Apache
Cassandra
creation, the
demand for
storing data fast
and reliably
becomes a need.
Apache
Cassandra is the
perfect choice
for building fault-
tolerant and
scalable
databases.
Mastering
Apache

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Cassandra
Cassandra 3.x
Manage Fault
Tolerance And
Scale Your
Time Data
**teaches you how
to build and
architect your
clusters,
configure and
work with your
nodes, and
program in a
high-throughput
environment,
helping you
understand the
power of**

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Learning Apache

Cassandra

**Cassandra as per
the new**

features. Once

you've covered a

brief recap of the

basics, you'll

move on to

deploying and

monitoring a

production setup

and optimizing

and integrating

it with other

software. You'll

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Cassandra
**work with the
advanced
features of CQL
and the new
storage engine in
order to
understand how
they function on
the server-side.
You'll explore
the integration
and interaction
of Cassandra
components,**

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Cassandra
Manage Fault
Tolerance And
Scale Real
Time Data

**followed by
discovering
features such as
token allocation
algorithm, CQL3,
vnodes,
lightweight
transactions, and
data modelling in
detail. Last but
not least you will
get to grips with
Apache Spark. By
the end of this**

Read Book
Learning Apache
Cassandra,
Manage Fault
Tolerant, Available,
Scalable Real
Time Data

**book, you'll be
able to analyse
big data, and
build and
manage high-
performance
databases for
your application.
What you will
learnWrite
programs more
efficiently using
Cassandra's
features more**

Read Book
Learning Apache
Cassandra
efficiently Exploit
the given
Infrastructure,
improve
performance,
and tweak the
Java Virtual
Machine
(JVM) Use CQL3 in
your application
in order to
simplify working
with Cassandra
onfigure

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Cassandra
**Cassandra and
Manage Fault
parameters
depending on
your needs
Set
up a cluster and
learn how to
scale it
Monitor a
Cassandra
cluster in
different
ways
Use Apache
Spark and other
big data**

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Learning Apache
Cassandra
processing
toolsWho this
book is for
Mastering
Apache
Cassandra 3.x is
for you if you are
a big data
administrator,
database
administrator,
architect, or
developer who
wants to build a

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Cassandra

**high-performing,
scalable, and**

fault-tolerant

database. Prior

knowledge of

core concepts of

databases is

required.

This book

discusses some

of the

innumerable

ways in which

computational

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Manage Fault
Tolerance And
Scale Real
Time Data

**methods can be
used to facilitate
research in
biology and
medicine - from
storing
enormous
amounts of
biological data to
solving complex
biological
problems and
enhancing
treatment of**

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Learning Apache
Cassandra
various grave
Manage Fault
diseases.

The book is
aimed at
intermediate
developers with
an
understanding of
core database
concepts who
want to become
a master at
implementing
Cassandra for

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Cassandra
their application.
Manage Fault
Professional
Certification of
Apache
Cassandra:
Apache
Cassandra is one
of the most
popular NoSQL
Database
currently being
used by many of
the organization,

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Cassandra
globally in every
industry like
Aviation, And
Finance, Retail,
Social
Networking etc.
It proves that
there is quite a
huge demand for
certified
Cassandra
professionals.
Having
certification

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Cassandra
**make your
selection in the
company make
much easier.**

**This certification
is conducted by
the DataStax®,
which has the
Enterprise
Version of the
Apache
Cassandra and
Leader in
providing**

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**support for the
open source
Apache And
Cassandra
NoSQL database.
Cassandra is one
of the Unique
NoSQL Database.
So go for its
certification, it
will certainly
help in - Getting
the Job - Increase
in your salary -**

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Cassandra
**Growth in your
career. -**

**Managing Tera
Bytes of Data. -
Learning
Distributed**

**Database - Using
CQL (Cassandra
Query Language)
Cassandra
Certification**

**Information: -
Number of
questions: 60**

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Cassandra

Multiple Choice -

Time allowed in

minutes: 90 -

Required passing

score: 75% -

Languages:

English Exam

Objectives: There

are in total 5

sections and you

will be asked

total 60

questions in real

exam. Please

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Cassandra
check each
Mongo Fault
section below
with regards to
the exam
objective 1.

Apache
Cassandra™ data
modeling 2.
Fundamentals of
replication and
consistency 3.
The distributed
and internal
architecture of

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Cassandra

Apache

Cassandra™ 4.

**Installation and
configuration 5.**

Basic tooling

Machine

Learning and IoT

**Cassandra: The
Definitive Guide,**

**(Revised) Third
Edition**

Uncover

**patterns, derive
actionable**

Page 319/362

Read Book
Learning Apache
Cassandra
insights, and
Manage Fault
learn from big
data using MLlib
Tobias Am
Second
Scalable Real
-International
Time Data
Workshop,
ALGO CLOUD
2016, Aarhus,
Denmark, August
22, 2016,
Revised Selected
Papers
Advanced
Intelligent

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Cassandra
Manage Fault
Tolerance
Sustainable Read
Time Data

**Systems for
Sustainable
Development
(AI2SD'2018)**

Follow this
handbook to build,
configure, tune,
and secure
Apache
Cassandra
databases. Start
with the installation

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Learning Apache
Cassandra
of Cassandra and
Manage Fault
move on to the
Tolerant And
creation of a single
Scalable Real
instance, and then
Time Data
a cluster of
Cassandra
databases.
Cassandra is
increasingly a key
player in many big
data
environments, and

Read Book Learning Apache Cassandra

this book shows you how to use Cassandra with Apache Spark, a popular big data processing framework. Also covered are day-to-day topics of importance such as the backup and recovery of

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Cassandra
Manage Fault
Tolerant And
Scalable Real
Time Data

Cassandra
databases, using
the right
compression and
compaction
strategies, and
loading and
unloading data.
Expert Apache
Cassandra
Administration
provides numerous

Read Book
Learning Apache
Cassandra
step-by-step
examples starting
with the basics of
a Cassandra
database, and
going all the way
through backup
and recovery,
performance
optimization, and
monitoring and
securing the data.

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The book serves as an authoritative and comprehensive guide to the building and management of simple to complex Cassandra databases. The book: Takes you through building a

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Cassandra
Manage Fault
Tolerant And
Scalable Real
Time Data

Cassandra
database from
installation of the
software and
creation of a single
database, through
to complex
clusters and data
centers Provides
numerous
examples of actual
commands in a

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Cassandra
real-life Cassandra
Manage Fault
environment that
Tolerant And
show how to
Scalable Real
confidently
Time Data
configure,
manage,
troubleshoot, and
tune Cassandra
databases Shows
how to use the
Cassandra
configuration

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properties to build
a highly stable,
available, and
secure Cassandra
database that
always operates at
peak efficiency
What You'll Learn
Install the
Cassandra
software and
create your first

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Cassandra
database
Manage Fault
Tolerant And
Scalable Real
Time Data
Understand the
Cassandra data
model, and the
internal
architecture of a
Cassandra
database Create
your own
Cassandra cluster,
step-by-step Run a
Cassandra cluster

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on Docker Work
Manage Fault
with Apache Spark
Tolerant And
by connecting to a
Scalable Real
Cassandra
Time Data
database Deploy
Cassandra
clusters in your
data center, or on
Amazon EC2
instances Back up
and restore
mission-critical

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Manage Fault
databases
Tolerant And
Monitor,
Scalable Real
Time Data
troubleshoot, and
tune production

Cassandra
databases, and cut
your spending on
resources such as
memory, servers,
and storage Who
This Book Is For

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Cassandra
Database

administrators,
developers, and
architects who are
looking for an
authoritative and
comprehensive
single volume for
all their Cassandra
administration
needs. Also for
administrators who

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are tasked with
setting up and
maintaining highly
reliable and high-
performing
Cassandra
databases. An
excellent choice
for big data
administrators,
database
administrators,

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architects, and
Manage Fault
developers who
Tolerant And
use Cassandra as
Scalable Real
their key data
Time Data
store, to support
high volume online
transactions, or as
a decentralized,
elastic data store.
Combine
advanced
analytics including

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Machine Learning,
Manage Fault
Deep Learning
Tolerant And
Neural Networks
Scalable Real
and Natural
Time Data
Language

Processing with
modern scalable
technologies
including Apache
Spark to derive
actionable insights
from Big Data in

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Cassandra
real-time Key
Manage Fault
Features Make a
Tolerant And
Scalable Real
Time Data
Data, Distributed
Technologies and
Machine
Learning Learn
how to design,
develop and
interpret the
results of common

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Machine Learning
Manage Fault
algorithmsUncover
Tolerant And
hidden patterns in
Scalable Real
your data in order
Time Data
to derive real
actionable insights
and business
valueBook

Description Every
person and every
organization in the
world manages

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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.

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Ultimately, we manage 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

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efficiently. But we now live in an interconnected world driven by mass data creation and consumption where data is no longer rows and columns restricted to a spreadsheet, but an organic and evolving asset in

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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

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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? The focus of Machine

Learning with Apache Spark is to

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Cassandra
help us answer
Manage Fault
these questions in
Tolerant And
a hands-on
Scalable Real
manner. We
Time Data
introduce the latest
scalable
technologies to
help us manage
and process big
data. We then
introduce
advanced

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Cassandra
analytical
Manage Fault
algorithms applied
Tolerant And
to real-world use
Scalable Real
cases in order to
Time Data
uncover patterns,
derive actionable
insights, and learn
from this big data.
What you will
learn Understand
how Spark fits in
the context of the

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Cassandra
big data ecosyste
mUnderstand how
to deploy and
configure a local
development
environment using
Apache
SparkUnderstand
how to design
supervised and
unsupervised
learning

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Cassandra
modelsBuild
Manage Fault
models to perform
Tolerant And
NLP, deep
Scalable Real
learning, and
Time Data
cognitive services
using Spark ML
librariesDesign
real-time machine
learning pipelines
in Apache
SparkBecome
familiar with

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advanced
techniques for
processing a large
volume of data by
applying machine
learning

algorithmsWho this
book is for This
book is aimed at
Business Analysts,
Data Analysts and
Data Scientists

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

A microfluidic
biochip is an
engineered fluidic

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Time Data

device that controls the flow of analytes, thereby enabling a variety of useful applications.

According to recent studies, the fields that are best set to benefit from the microfluidics technology, also

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known as lab-on-chip technology, include forensic identification, clinical chemistry, point-of-care (PoC) diagnostics, and drug discovery.

The growth in such fields has significantly amplified the

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impact of
microfluidics
technology, whose
market value is
forecast to grow
from \$4 billion in
2017 to \$13.2
billion by 2023.

The rapid
evolution of lab-on-
chip technologies
opens up

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opportunities for new biological or chemical science areas that can be directly facilitated by sensor-based microfluidics control. For example, the digital microfluidics-based ePlex system from

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GenMarkDx
Manage Fault
enables
Tolerant And
automated disease
Scalable Real
diagnosis and can
Time Data
bring syndromic
testing near
patients
everywhere.

However, as the
applications of
molecular biology
grow, the adoption

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of microfluidics in
Manage Fault
Tolerant And
Scalable Real
Time Data
many applications
has not grown at
the same pace,
despite the
concerted effort of
microfluidic
systems
engineers. Recent
studies suggest
that state-of-the-
art design

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techniques for
microfluidics have
two major
drawbacks that
need to be
addressed
appropriately: (1)
current lab-on-chip
systems were only
optimized as
auxiliary
components and

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Cassandra
are only suitable
Manage Fault
for sample-limited
Tolerant And
analyses;
Scalable Real
therefore, their
Time Data
capabilities may
not cope with the
requirements of
contemporary
molecular biology
applications; (2)
the integrity of
these automated

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lab-on-chip systems and their biochemical operations are still an open question since no protection schemes were developed against adversarial contamination or result-manipulation attacks.

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Cassandra
Optimization of
Manage Fault
Trustworthy
Tolerant And
Biomolecular
Scalable Real
Quantitative
Time Data
Analysis Using
Cyber-Physical
Microfluidic
Platforms provides
solutions to these
challenges by
introducing a new
design flow based

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Cassandra
Manage Fault
Tolerant And
Scalable Real
Time Data

on the realistic
modeling of
contemporary
molecular biology
protocols. It also
presents a
microfluidic
security flow that
provides a high-
level of confidence
in the integrity of
such protocols. In

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summary, this book creates a new research field as it bridges the technical skills gap between microfluidic systems and molecular biology protocols but it is viewed from the perspective of an

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electronic/systems
Manage Fault
engineer.
Tolerant And
Scalable Real
Time Data