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# Learning Apache Cassandra Manage Fault Tolerant And Scalable Real Time Data

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Machine Learning with Apache Spark Quick Start  
Guide

Second International Workshop, ALGO CLOUD  
2016, Aarhus, Denmark, August 22, 2016,

Revised Selected Papers

A Biological Perspective

Data Analysis, Machine Learning, and Neural  
Networks simplified

Mastering Apache Cassandra : Build, Manage, and  
Configure High-performing, Reliable NoSQL

Database for Your Application with Cassandra

Mastering Apache Cassandra 3.x - Third Edition

Volume 5: Advanced Intelligent Systems for  
Computing Sciences

Learning Apache Apex

Distributed Data at Web Scale

Apache Cassandra Essentials

Learning Apache Cassandra

An expert guide to improving database scalability  
and availability without compromising

performance, 3rd Edition  
Cassandra: The Definitive Guide  
Cassandra: The Definitive Guide  
Learning Apache Cassandra - Manage Fault  
Tolerant and Scalable Real  
Mastering Apache Cassandra 3.x - Third Edition  
Intelligent Systems for Healthcare Management  
and Delivery  
Learning Apache Cassandra  
Recent Developments in Machine Learning and  
Data Analytics  
Beginning Apache Cassandra Development  
IC3 2018  
ICT Systems-Theory, Radio-Electronics,  
Information Technologies and Cybersecurity  
(Volume 5)  
Machine Learning and IoT  
Learning Apache Cassandra  
Expert Apache Cassandra Administration  
Cassandra: The Definitive Guide, (Revised) Third  
Edition  
Apache Cassandra Certification Practice Material :  
2019  
Mastering Apache Cassandra 3.x  
Practical Cassandra  
Learning Apache Cassandra - Second Edition  
Deep Learning: Convergence to Big Data  
Analytics  
Advanced Intelligent Systems for Sustainable  
Development (AI2SD'2018)  
Real-time streaming applications with Apex  
Lecture Notes in Real-Time Intelligent Systems

Mastering Apache Cassandra - Second Edition  
Learning Apache Spark 2  
Data-Centric Business and Applications  
Distributed Data at Web Scale  
Machine Learning in Java

*Learning  
Apache  
Cassandra  
Manage  
Fault  
Tolerant  
And Scalable  
Real Time Data* *Downloaded  
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**JAYCE  
DUDLEY**

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Machine Learning with Apache Spark Quick Start Guide Packt Publishing Ltd Build, manage, and configure 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 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 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 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 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 you will get to grips with Apache 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, improve performance, and tweak the Java 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 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 required. *Second International Workshop, ALGO CLOUD 2016, Aarhus, Denmark, August 22, 2016, Revised Selected Papers* "O'Reilly Media, Inc." The book is aimed at intermediate developers with an understanding of core database concepts who want to become a master at implementing Cassandra for their application. [A Biological Perspective](#) IGI Global Follow this handbook to build, configure, tune, and secure Apache Cassandra databases. Start with the installation of Cassandra and move on to the creation of a single instance, and then a cluster of Cassandra databases. Cassandra is increasingly a key player in many big data environments, and 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 Cassandra databases, using the right compression and compaction strategies, and loading and unloading data. Expert Apache Cassandra Administration provides numerous 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. 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 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 real-life Cassandra environment that show how to confidently configure, manage, troubleshoot, and tune Cassandra databases Shows how to use the Cassandra configuration properties to build a highly stable, available, and secure

Cassandra database who are  
database that Deploy looking for an  
always Cassandra authoritative  
operates at clusters in and  
peak your data comprehensiv  
efficiency center, or on e single  
What You'll Amazon EC2 volume for all  
Learn Install instances their  
the Cassandra Back up and Cassandra  
software and restore administration  
create your mission- needs. Also for  
first database critical administrators  
Understand Cassandra who are  
the Cassandra databases tasked with  
data model, Monitor, setting up and  
and the troubleshoot, maintaining  
internal and tune highly reliable  
architecture of production and high-  
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by-step Run a memory, administrators  
Cassandra servers, and , database  
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Docker Work This Book Is , architects,  
with Apache For Database and  
Spark by administrators developers  
connecting to , developers, who use  
a Cassandra and architects Cassandra as

their key data store, to support high volume online transactions, or as a decentralized, elastic data store.

Data Analysis, Machine Learning, and Neural Networks  
simplified

"O'Reilly Media, Inc." With the growing use of new technologies and artificial intelligence (AI) applications, intelligent systems can be used to manage large amounts of existing data in healthcare

domains. Having more intelligent methods for accessing data allows medical professionals to more efficiently identify the best medical practices and more concrete solutions for diagnosing and treating a multitude of rare diseases. Intelligent Systems for Healthcare Management and Delivery provides relevant and advanced methodological, technological, and scientific 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 medical imaging, EMR systems, and drug development assistance. This publication fosters a scientific debate for new healthcare intelligent systems and

sophisticated approaches for enhanced healthcare services and is ideally designed for medical professionals, hospital staff, rehabilitation specialists, medical educators, and researchers.

*Mastering Apache Cassandra : Build, Manage, and Configure High-performing, Reliable NoSQL Database for Your Application with Cassandra*  
Springer  
What could

you do with data if 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 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 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, DBA, application architect, or manager looking to

solve a database scaling issue or future-proof your application, this guide shows you how to harness Cassandra's speed and flexibility. Understand the 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 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, data storage, and caching for better performance. Mastering Apache Cassandra 3.x - Third Edition "O'Reilly Media, Inc." 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 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 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 a developer, DBA, or application architect looking to solve a database scaling issue or future-proof your application, this guide helps you harness	Cassandra's speed and flexibility. Understand Cassandra's 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 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 Docker Integrate Cassandra with Spark, Hadoop, Elasticsearch, Solr, and Lucene <u><a href="#">Volume 5: Advanced Intelligent Systems for Computing Sciences</a></u> CRC Press Leverage the power of Java and its
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associated machine learning libraries to build powerful predictive models Key Features Solve predictive modeling problems using the most popular machine learning Java libraries Explore data processing, machine learning, and NLP concepts using JavaML, WEKA, MALLET libraries Practical examples, tips, and tricks to help you understand applied machine	learning in Java Book Description As 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. Machine learning applications are everywhere, from self-driving cars, spam detection, document search, and	trading strategies, to speech recognition. 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. Machine Learning in Java will provide you with the techniques and tools you need. You will start by learning how to apply machine learning
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methods to a variety of common tasks including classification, prediction, forecasting, market basket analysis, and clustering. The code in this book works for JDK 8 and above, the code is tested on JDK 11. Moving on, you will discover how to detect anomalies and fraud, and ways to perform activity recognition, image recognition, and text 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 machine learning methods to real-world problems, you will gain hands-on experience that will transform the way you think about data. What you will learn Discover key Java machine learning libraries Implement concepts such as classification,

regression, and clustering Develop a customer retention strategy by predicting likely churn candidates Build a scalable recommendati on engine with Apache Mahout Apply machine learning to fraud, anomaly, and outlier detection Experiment with deep learning concepts and algorithms Write your own activity recognition model for eHealth applications

Who this book is for If you want to learn how to use Java's machine learning libraries to 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 successfully create, customize, and deploy machine learning applications with ease. You should be familiar with Java programming and some

basic data mining concepts to make the most of this book, but no prior experience with machine learning is required.

**Learning  
Apache Apex**

Springer  
Nature  
Learning  
Apache  
Cassandra -  
Manage Fault  
Tolerant and  
Scalable Real-  
Time  
DataCreateSp  
ace

**Distributed  
Data at Web  
Scale**

HadoopExam  
Learning  
Resources  
The second  
volume of the

book series  
highlights  
works  
presented at  
the 2nd  
International  
Conference on  
Real Time  
Intelligent  
Systems, held  
in Casablanca  
on October  
18-20, 2017.  
The book  
offers a  
comprehensiv  
e, practical  
review of the  
state-of-the-  
art in  
designing and  
implementing  
real-time  
intelligent  
computing for  
the areas  
within the  
conference's  
scope such as  
robotics,  
intelligent  
alert systems,

IoT, remote access control, multi-agent systems, networking, mobile smart systems, crowdsourcing , broadband systems, cloud computing, streaming data and many other applications. Research in real-time computing supports decision making in dynamic environments. Some examples include ABS, FBW flight control, automatic air-conditioning,

etc. Intelligent computing relies heavily on artificial intelligence (AI) to make computers act for humans. The authors are confident that the solutions discussed in this book will provide a unique source of information and inspiration for researchers working in AI, distributed coding algorithms or smart services and platforms, and for IT professionals, who can integrate the proposed methods into

their practice. *Apache Cassandra Essentials* Packt Publishing Ltd Create your own massively scalable Cassandra database with highly responsive database queries About This Book Create a Cassandra cluster and tweak its configuration to get the best performance based on your environment Analyze the key concepts and architecture of Cassandra, which are essential to

<p>create highly responsive Cassandra databases A fast-paced and step-by-step guide on handling huge amount of data and getting the best out of your database applications Who This Book Is For If you are a developer who is working with Cassandra and you want to deep dive into the core concepts and understand Cassandra's non-relational nature, then this book is for you. A basic understanding</p>	<p>of Cassandra is expected. What You Will Learn Install and set up your Cassandra Cluster using various installation types Use Cassandra Query Language (CQL) to design Cassandra database and tables with various configuration options Design your Cassandra database to be evenly loaded with the lowest read/write latencies Employ the available</p>	<p>Cassandra tools to monitor and maintain a Cassandra cluster Debug CQL queries to discover why they are performing relatively slowly Choose the best-suited compaction strategy for your database based on your usage pattern Tune Cassandra based on your deployment operation system environment In Detail Apache Cassandra Essentials takes you step-by-step</p>
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from from the basics of installation to advanced installation options and database design techniques. It gives you all the information you need to effectively design a well distributed and high performance database. You'll get to know about the steps that are performed by a Cassandra node when you execute a read/write query, which is essential to properly maintain of a

Cassandra cluster and to debug any issues. Next, you'll discover how to integrate a Cassandra driver in your applications and perform read/write operations. Finally, you'll learn about the various tools provided by Cassandra for serviceability aspects such as logging, metrics, backup, and recovery. Style and approach This step-by-step guide is packed with examples that explain the

core concepts as well as advanced concepts, techniques, and usages of Apache Cassandra. [Learning Apache Cassandra](#) "O'Reilly Media, Inc." If you're an application developer familiar with SQL databases such as MySQL or Postgres, and you want to explore distributed databases such as 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 time.

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

Packt Publishing Ltd Build and run intelligent applications by leveraging key Java machine learning libraries About This Book Develop a sound strategy to solve predictive modelling problems using the most popular machine learning Java libraries. Explore a broad variety of data processing, machine learning, and natural language processing

through diagrams, source code, and real-world 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 scientists and Java developers who want to dive into the exciting world of deep learning. It will get you up and running quickly and provide you with the skills you need to

successfully  
create,  
customize,  
and deploy  
machine  
learning  
applications in  
real life. What  
You Will Learn  
Get a practical  
deep dive into  
machine  
learning and  
deep learning  
algorithms  
Explore neural  
networks  
using some of  
the most  
popular Deep  
Learning  
frameworks  
Dive into Deep  
Belief Nets  
and Stacked  
Denoising  
Autoencoders  
algorithms  
Apply machine  
learning to  
fraud,  
anomaly, and

outlier  
detection  
Experiment  
with deep  
learning  
concepts,  
algorithms,  
and the  
toolbox for  
deep learning  
Select and  
split data sets  
into training,  
test, and  
validation, and  
explore  
validation  
strategies  
Apply the  
code  
generated in  
practical  
examples,  
including  
weather  
forecasting  
and pattern  
recognition In  
Detail  
Machine  
learning  
applications

are  
everywhere,  
from self-  
driving cars,  
spam  
detection,  
document  
search, and  
trading  
strategies, to  
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rting with an  
introduction to  
basic machine  
learning  
algorithms,  
this course  
takes you  
further into  
this vital world  
of stunning  
predictive  
insights and  
remarkable  
machine  
intelligence.  
This course  
helps you  
solve  
challenging  
problems in

image processing, speech recognition, language modeling. You will discover how to detect anomalies and fraud, and ways to perform activity recognition, image recognition, and text. You will also work with examples such as weather forecasting, disease diagnosis, customer profiling, generalization, extreme machine learning and more. By the end of this

course, you will have all the knowledge you need to perform deep learning on your system with varying complexity levels, to apply them to your daily work. The 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 Neural Network Programming

with Java, Second Edition Style and approach This course aims to create a smooth learning path that will teach you how to effectively use deep learning 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 progress to solve real-world problems and links neural network theory to their application

*Cassandra: The Definitive Guide* CRC Press  
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 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 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 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 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,

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 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 enterprise transformation of business systems from a global perspective.  
*Cassandra: The Definitive Guide* Packt Publishing Ltd  
 This practical guide explains you to

program and understand the power of Apache Cassandra 3.x. You will explore the integration and interaction of Cassandra components, and explore features such as the token allocation algorithm, CQL3, vnodes, lightweight transactions, and data modelling in detail.

**Learning Apache Cassandra - Manage Fault Tolerant and Scalable Real Time Data**  
Guru99 Beginning

Apache Cassandra Development introduces you to one of the most robust and best-performing NoSQL database platforms on the planet. Apache Cassandra is a document database following the JSON document 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 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 Beginning Apache Cassandra Development, author and Cassandra expert Vivek Mishra takes you through

using Apache Cassandra from each of these primary languages. Mishra also covers the Cassandra Query Language (CQL), the Apache Cassandra analog to SQL. You'll learn to develop 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 databases, meaning you get

unparalleled throughput and performance without the sort of processing overhead that comes with traditional proprietary databases. *Beginning Apache Cassandra 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

least—provide delightful user experiences. **Mastering Apache Cassandra 3.x - Third Edition** Springer "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 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, 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 speed, scalability, 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 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 insights into issues ranging from querying

to deployment, management, maintenance, monitoring, and troubleshooting. The authors cover key issues, from architecture to migration, and guide you through crucial decisions about configuration and data modeling. They 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 concepts, and primary use cases—and why it's so blazingly fast Getting Cassandra up and running on single 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

transition from SQL-based RDBMSes Deploying and provisioning through the cloud or on bare-metal hardware Choosing the right configuration options for each type of workload Tweaking Cassandra to get maximum performance from your hardware, OS, and JVM Mastering Cassandra's essential tools for maintenance and monitoring Efficiently solving the most common

problems with  
Cassandra  
deployment,  
operation, and  
application  
development  
**Intelligent  
Systems for  
Healthcare  
Management  
and Delivery**  
Apress  
Combine  
advanced  
analytics  
including  
Machine  
Learning,  
Deep Learning  
Neural  
Networks and  
Natural  
Language  
Processing  
with modern  
scalable  
technologies  
including  
Apache Spark  
to derive  
actionable  
insights from

Big Data in  
real-time Key  
Features Make  
a hands-on  
start in the  
fields of Big  
Data,  
Distributed  
Technologies  
and Machine  
Learning  
Learn how to  
design,  
develop and  
interpret the  
results of  
common  
Machine  
Learning  
algorithms  
Uncover  
hidden  
patterns in  
your data in  
order to  
derive real  
actionable  
insights and  
business value  
Book  
Description  
Every person

and every  
organization  
in the world  
manages  
data, whether  
they realize it  
or not. Data is  
used to  
describe the  
world around  
us and can be  
used for  
almost any  
purpose, from  
analyzing  
consumer  
habits to  
fighting  
disease and  
serious  
organized  
crime.  
Ultimately, we  
manage data  
in order to  
derive value  
from it, and  
many  
organizations  
around the  
world have  
traditionally

invested in technology to help process their data faster and more efficiently. But we now live in an interconnected world driven by mass data creation and consumption where data is no longer rows and columns restricted to a spreadsheet, but an organic and evolving asset in its own right. With this realization comes major challenges for organizations: how do we manage the sheer size of data being

created every second (think not only spreadsheets and databases, but also social media posts, images, videos, music, blogs and so on)? And once we can manage all of this data, how do we derive real value from it? The focus of Machine Learning with Apache Spark is to help us answer these questions in a hands-on manner. We introduce the latest scalable technologies to help us manage and

process big data. We then introduce advanced analytical algorithms applied to real-world use cases in order to uncover patterns, derive actionable insights, and learn from this big data. What you will learn Understand how Spark fits in the context of the big data ecosystem Understand how to deploy and configure a local development environment using Apache Spark Understand how to design

supervised and unsupervised learning models Build models to perform NLP, deep learning, and cognitive services using Spark ML libraries Design real-time machine learning pipelines in Apache Spark Become familiar with advanced techniques for processing a large volume of data by applying machine learning algorithms Who this book is for This book is aimed at Business	Analysts, Data Analysts and Data Scientists who wish to make a hands-on start in order to take advantage of modern Big Data technologies combined with Advanced Analytics. <i>Learning Apache Cassandra</i> Pearson Education Learn about the fastest-growing open source project in the world, and find out how it revolutionizes big data analytics About This Book	Exclusive guide that covers how to get up and running with fast data processing using Apache Spark Explore and exploit various possibilities with Apache Spark using real-world use cases in this book Want to perform efficient data processing at real time? This book will be your one-stop solution. Who This Book Is For This guide appeals to big data engineers, analysts, architects, software
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<p>engineers, even technical managers who need to perform efficient data processing on Hadoop at real time. Basic familiarity with Java or Scala will be helpful. The assumption is that readers will be from a mixed background, but would be typically people with background in engineering/data science with no prior Spark experience and want to understand how Spark can help them on their analytics</p>	<p>journey. What You Will Learn Get an overview of big 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 to process them with Apache Spark. Realize how to deploy Spark with YARN, MESOS or a Stand-alone cluster manager.</p>	<p>Learn the concepts of Spark SQL, SchemaRDD, Caching and working with Hive and Parquet file formats Understand the architecture of Spark MLLib while discussing some of the off-the-shelf algorithms that come with Spark. Introduce yourself to the deployment and usage of SparkR. Walk through the importance of Graph computation and the graph processing systems</p>
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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 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 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 journey after installation is using key components, APIs, Clustering, machine learning APIs, data pipelines, parallel

programming. It is important to understand why each framework component is key, how widely it is being used, its stability and pertinent use cases. Once we understand the individual components, we will take a couple of real life advanced analytics examples such as 'Building a Recommendation system', 'Predicting customer churn' and so on. The objective of these real life examples is to

give the reader confidence of using Spark for real-world problems. Style and approach With the help of practical examples and real-world use cases, this guide will take you from scratch to building efficient data applications using Apache Spark. You will learn all about this excellent data processing engine in a step-by-step manner, taking one aspect of it at a time. This highly

practical guide will include how to work with data pipelines, dataframes, clustering, SparkSQL, parallel programming, and such insightful topics with the help of real-world use cases. *Recent Developments in Machine Learning and Data Analytics* Packt Publishing Ltd 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 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, 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 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 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 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 integration of big data and deep learning techniques and lastly the future directions. Beginning Apache Cassandra Development Packt Publishing Ltd  
This book

presents high-quality papers from an international forum for research on computational approaches to 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 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 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 book includes work on data analytics using machine learning techniques.

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