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*Learn Apache
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Technologies*

This book covers
three major parts of
Big Data: concepts,
theories and
applications.
Written by world-
renowned leaders

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in Big Data, this book explores the problems, possible solutions and directions for Big Data in research and practice. It also focuses on high level concepts such as definitions of Big Data from different angles; surveys in research and

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applications; and
existing tools,
mechanisms, and
systems in practice.
Each chapter is
independent from
the other chapters,
allowing users to
read any chapter
directly. After
examining the
practical side of Big
Data, this book

Where To
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Technologies
presents theoretical
perspectives. The
theoretical research
ranges from Big
Data
representation,
modeling and
topology to
distribution and
dimension
reducing. Chapters
also investigate the
many disciplines

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that involve Big Data, such as statistics, data mining, machine learning, networking, algorithms, security and differential geometry. The last section of this book introduces Big Data applications from different

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communities, such as business, engineering and science. Big Data Concepts, Theories and Applications is designed as a reference for researchers and advanced level students in computer science, electrical

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engineering and
mathematics.

Practitioners who
focus on
information
systems, big data,
data mining,
business analysis
and other related
fields will also find
this material
valuable.

This book describes

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the landscape of cloud computing from first principles, leading the reader step-by-step through the process of building and configuring a cloud environment. The book not only considers the technologies for designing and

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creating cloud computing platforms, but also the business models and frameworks in real-world implementation of cloud platforms. Emphasis is placed on “learning by doing,” and readers are encouraged to

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experiment with a range of different tools and approaches. Topics and features: includes review questions, hands-on exercises, study activities and discussion topics throughout the text; demonstrates the approaches

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used to build cloud
computing
infrastructures;
reviews the social,
economic, and
political aspects of
the on-going growth
in cloud computing
use; discusses legal
and security
concerns in cloud
computing;
examines

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techniques for the appraisal of financial investment into cloud computing; identifies areas for further research within this rapidly-moving field.

Summary Taming Text, winner of the 2013 Jolt Awards for Productivity, is a

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hands-on, example-
driven guide to
working with
unstructured text in
the context of real-
world applications.
This book explores
how to
automatically
organize text using
approaches such as
full-text search,
proper name

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recognition,
clustering, tagging,
information
extraction, and
summarization. The
book guides you
through examples
illustrating each of
these topics, as well
as the foundations
upon which they
are built. About this
Book There is so

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much text in our lives, we are practically drowning in it. Fortunately, there are innovative tools and techniques for managing unstructured information that can throw the smart developer a much-needed lifeline.

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You'll find them in this book. Taming Text is a practical, example-driven guide to working with text in real applications. This book introduces you to useful techniques like full-text search, proper name recognition, clustering, tagging,

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information extraction, and summarization. You'll explore real use cases as you systematically absorb the foundations upon which they are built. Written in a clear and concise style, this book avoids jargon,

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explaining the subject in terms you can understand without a background in statistics or natural language processing.

Examples are in Java, but the concepts can be applied in any language. Written

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for Java developers, the book requires no prior knowledge of GWT. Purchase of the print book comes with an offer of a free PDF, ePub, and Kindle eBook from Manning. Also available is all code from the book.

Winner of 2013 Jolt Awards: The Best

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Books—one of five notable books every serious programmer should read. What's Inside When to use text-taming techniques Important open-source libraries like Solr and Mahout How to build text-processing applications About

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the Authors Grant
Ingersoll is an
engineer, speaker,
and trainer, a
Lucenecommitter,
and a cofounder of
the Mahout
machine-learning
project. Thomas
Morton is the
primary developer
of OpenNLP and
Maximum Entropy.

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Drew Farris is a technology consultant, software developer, and contributor to Mahout, Lucene, and Solr. "Takes the mystery out of very complex processes."—From the Foreword by Liz Liddy, Dean, iSchool, Syracuse

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example question
answering system

Untamed text:

exploring the next
frontier

Summary Tika in
Action is a hands-on
guide to content
mining with Apache
Tika. The book's
many examples and
case studies offer
real-world

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experience from domains ranging from search engines to digital asset management and scientific data processing. About the Technology Tika is an Apache toolkit that has built into it everything you and your app need to know about file

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formats. Using Tika,
your applications
can discover and
extract content
from digital
documents in
almost any format,
including exotic
ones. About this
Book Tika in Action
is the ultimate
guide to content
mining using

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Apache Tika. You'll learn how to pull usable information from otherwise inaccessible sources, including internet media and file archives. This example-rich book teaches you to build and extend applications based on real-world

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experience with search engines, digital asset management, and scientific data processing. In addition to architectural overviews, you'll find detailed chapters on features like metadata

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CMS, and other
data sources Learn

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through

experimentation

Many examples

This book requires

no previous

knowledge of Tika

or text mining

techniques. It

assumes a working

knowledge of Java.

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Email Archives, July
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machine learning
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For This book is for

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Java developers who are comfortable developing applications in Java. Those who now want to enter the world of data science or wish to build intelligent applications will find this book ideal.

Aspiring data

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scientists will also
find this book very
helpful. What You
Will Learn

Understand the
nature and key
concepts used in the
field of data science

Grasp how data is
collected, cleaned,
and processed

Become comfortable

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with key data
analysis techniques
See specialized
analysis techniques
centered on machine
learning Master the
effective
visualization of your
data Work with the
Java APIs and
techniques used to
perform data

Where To Download Learn Apache Tika Java analysis In Detail Technologies

Data science is concerned with extracting knowledge and insights from a wide variety of data sources to analyse patterns or predict future behaviour. It draws from a wide array of disciplines

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including statistics,
computer science,
mathematics,
machine learning,
and data mining. In
this book, we cover
the important data
science concepts and
how they are
supported by Java,
as well as the often
statistically

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challenging techniques, to provide you with an understanding of their purpose and application. The book starts with an introduction of data science, followed by the basic data science tasks of data collection, data

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cleaning, data analysis, and data visualization. This is followed by a discussion of statistical techniques and more advanced topics including machine learning, neural networks, and deep learning. The next section

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examines the major categories of data analysis including text, visual, and audio data, followed by a discussion of resources that support parallel implementation. The final chapter illustrates an in-depth data science

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problem and provides a comprehensive, Java-based solution. Due to the nature of the topic, simple examples of techniques are presented early followed by a more detailed treatment later in the book.

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This permits a more natural introduction to the techniques and concepts presented in the book. Style and approach This book follows a tutorial approach, providing examples of each of the major concepts covered. With a step-

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by-step instructional style, this book covers various facets of data science and will get you up and running quickly.

This book includes selected papers from the 2nd

International Conference on Machine Learning

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Technologies
and Information
Processing (ICMLIP
2020), held at
Vardhaman College
of Engineering,
Jawaharlal Nehru
Technological
University (JNTU),
Hyderabad, India,
from November 28
to 29, 2020. It
presents the latest

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developments and
technical solutions in
the areas of
advanced computing
and data sciences,
covering machine
learning, artificial
intelligence,
human – computer
interaction, IoT,
deep learning, image
processing and

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pattern recognition,
and signal and
speech processing.

Enhance your Solr
indexing experience
with advanced
techniques and the
built-in

functionalities
available in Apache
Solr About This
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distributed indexing
and real-time
optimization to
change index data
on fly Index data
from various sources
and web crawlers
using built-in
analyzers and
tokenizers This step-
by-step guide is
packed with real-life

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examples on
Technologies

indexing data Who

This Book Is For

This book is for
developers who want
to increase their
experience of
indexing in Solr by
learning about the
various index
handlers, analyzers,
and methods

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available in Solr.
Beginner level Solr
development skills
are expected. What
You Will Learn Get
to know the basic
features of Solr
indexing and the
analyzers/tokenizers
available Index
XML/JSON data in
Solr using the

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HTTP Post tool and
CURL command

Work with Data

Import Handler to
index data from a
database Use

Apache Tika with
Solr to index word
documents, PDFs,
and much more

Utilize Apache
Nutch and Solr

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integration to index
crawled data from
web pages Update
indexes in real-time
data feeds Discover
techniques to index
multi-language and
distributed data in
Solr Combine the
various indexing
techniques into a
real-life working

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example of an online
shopping web
application In Detail
Apache Solr is a
widely used, open
source enterprise
search server that
delivers powerful
indexing and
searching features.
These features help
fetch relevant

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information from various sources and documentation. Solr also combines with other open source tools such as Apache Tika and Apache Nutch to provide more powerful features. This fast-paced guide starts by helping you set up

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Solr and get acquainted with its basic building blocks, to give you a better understanding of Solr indexing. You'll quickly move on to indexing text and boosting the indexing time. Next, you'll focus on basic indexing techniques,

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various index handlers designed to modify documents, and indexing a structured data source through Data Import Handler.

Moving on, you will learn techniques to perform real-time indexing and atomic updates, as well as

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more advanced indexing techniques such as de-duplication. Later on, we'll help you set up a cluster of Solr servers that combine fault tolerance and high availability. You will also gain insights into working scenarios of different

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aspects of Solr and
how to use Solr with
e-commerce data.

By the end of the
book, you will be
competent and
confident working
with indexing and
will have a good
knowledge base to
efficiently program
elements. Style and

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approach This fast-paced guide is packed with examples that are written in an easy-to-follow style, and are accompanied by detailed explanation. Working examples are included to help you get better results for your

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applications,
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Archives

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Digital

Transformation of

Supply Chain

Management

Social Big Data

Analytics

Accelerate your
enterprise search
engine and bring
relevancy in your

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search analytics Key
Features A practical
guide in building
expertise with
Indexing, Faceting,
Clustering and
Pagination Master the
management and
administration of
Enterprise Search
Applications and
services seamlessly
Handle multiple data

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inputs such as JSON,
xml, pdf, doc, xls,ppt,
csv and much more.

Book Description

Apache Solr is the
only standalone
enterprise search
server with a REST-
like application
interface. providing
highly scalable,
distributed search and
index replication for

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many of the world's
largest internet sites.

To begin with, you
would be introduced
to how you perform
full text search,
multiple filter search,
perform dynamic
clustering and so on
helping you to brush
up the basics of
Apache Solr. You will
also explore the new

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features and advanced options released in Apache Solr 7.x which will get you numerous performance aspects and making data investigation simpler, easier and powerful. You will learn to build complex queries, extensive filters and how are they compiled

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in your system to bring relevance in your search tools. You will learn to carry out Solr scoring, elements affecting the document score and how you can optimize or tune the score for the application at hand. You will learn to extract features of documents, writing

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complex queries in re-ranking the

documents. You will also learn advanced options helping you to know what content is indexed and how the extracted content is indexed. Throughout the book, you would go through complex problems with solutions along with

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varied approaches to tackle your business needs. By the end of this book, you will gain advanced proficiency to build out-of-box smart search solutions for your enterprise demands. What you will learn Design schema using schema API to access data in

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the database Advance
querying and fine-
tuning techniques for
better performance

Get to grips with
indexing using Client
API Set up a fault
tolerant and highly
available server with
newer distributed
capabilities,

SolrCloud Explore

Apache Tika to upload

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data with Solr Cell
Understand different
data operations that
can be done while
indexing Master
advanced querying
through Velocity
Search UI, faceting
and Query Re-
ranking, pagination
and spatial search
Learn to use
JavaScript, Python,

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SolrJ and Ruby for
interacting with Solr
Who this book is for
The book would
rightly appeal to
developers, software
engineers, data
engineers and
database architects
who are building or
seeking to build
enterprise-wide
effective search

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engines for business intelligence. Prior experience of Apache Solr or Java programming is must to take the best of this book.

Summary Introducing Data Science teaches you how to accomplish the fundamental tasks that occupy data scientists.

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Using the Python language and common Python libraries, you'll experience firsthand the challenges of dealing with data at scale and gain a solid foundation in data science. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from

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Manning Publications.

About the Technology

Many companies need

developers with data

science skills to work

on projects ranging

from social media

marketing to machine

learning. Discovering

what you need to learn

to begin a career as a

data scientist can seem

bewildering. This

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book is designed to help you get started.

About the Book

Introducing Data

ScienceIntroducing

Data Science explains

vital data science

concepts and teaches

you how to

accomplish the

fundamental tasks that

occupy data scientists.

You'll explore data

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visualization, graph databases, the use of NoSQL, and the data science process.

You'll use the Python language and common Python libraries as you experience firsthand the challenges of dealing with data at scale.

Discover how Python allows you to gain

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insights from data sets
so big that they need
to be stored on
multiple machines, or
from data moving so
quickly that no single
machine can handle it.
This book gives you
hands-on experience
with the most popular
Python data science
libraries, Scikit-learn
and StatsModels.

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After reading this book, you'll have the solid foundation you need to start a career in data science.

What's Inside
Handling large data
Introduction to
machine learning
Using Python to work
with data Writing data
science algorithms
About the Reader This

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book assumes you're comfortable reading code in Python or a similar language, such as C, Ruby, or JavaScript. No prior experience with data science is required.

About the Authors

Davy Cielen, Arno D. B. Meysman, and Mohamed Ali are the founders and

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managing partners of
Optimately and
Maiton, where they
focus on developing
data science projects
and solutions in
various sectors. Table
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"XQuery Kick Start"

delivers a concise

introduction to the

XQuery standard, and

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useful implementation
advice for developers
needing to put it into
practice. The book
starts by explaining
the role of XQuery in
the XML family of
specifications, and its
relationship with
XPath. The authors
then explain the
specification in detail,
describing the

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semantics and data model, before moving to examples using XQuery to manipulate XML databases and document storage systems. Later chapters discuss Java implementations of XQuery and development tools that facilitate the development of Web

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sites with XQuery.

This book is up to date with the latest XQuery specifications, and includes coverage of new features for extending the XQuery language.

R is the most powerful tool you can use for statistical analysis.

This definitive guide smooths R's steep

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learning curve with practical solutions and real-world applications for commercial environments. In *R in Action, Third Edition* you will learn how to:

- Set up and install R and RStudio
- Clean, manage, and analyze data with R
- Use the `ggplot2` package for

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graphs and
visualizations Solve
data management
problems using R
functions Fit and
interpret regression
models Test
hypotheses and
estimate confidence
Simplify complex
multivariate data with
principal components
and exploratory factor

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analysis Make
predictions using time
series forecasting
Create dynamic
reports and stunning
visualizations
Techniques for
debugging programs
and creating packages
R in Action, Third
Edition makes
learning R quick and
easy. That's why

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thousands of data scientists have chosen this guide to help them master the powerful language. Far from being a dry academic tome, every example you'll encounter in this book is relevant to scientific and business developers, and helps you solve common

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data challenges. R expert Rob Kabacoff takes you on a crash course in statistics, from dealing with messy and incomplete data to creating stunning visualizations. This revised and expanded third edition contains fresh coverage of the new tidyverse

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approach to data analysis and R's state-of-the-art graphing capabilities with the ggplot2 package.

About the technology
Used daily by data scientists, researchers, and quants of all types, R is the gold standard for statistical data analysis. This free and open source

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language includes packages for everything from advanced data visualization to deep learning. Instantly comfortable for mathematically minded users, R easily handles practical problems without forcing you to think like a software

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engineer. About the book *R in Action*, Third Edition teaches you how to do statistical analysis and data visualization using R and its popular tidyverse packages. In it, you'll investigate real-world data challenges, including forecasting, data mining, and

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dynamic report writing. This revised third edition adds new coverage for graphing with ggplot2, along with examples for machine learning topics like clustering, classification, and time series analysis. What's inside Clean, manage, and analyze data Use the ggplot2

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package for graphs
and visualizations

Techniques for
debugging programs
and creating packages

A complete learning
resource for R and
tidyverse About the
reader Requires basic
math and statistics. No
prior experience with
R needed. About the
author Dr. Robert I

Where To Download Learn Apache Tika Java Technologies

Kabacoff is a professor of quantitative analytics at Wesleyan University and a seasoned data scientist with more than 20 years of experience.

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How to Find,
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library. Written by
NASA JPL Deputy
CTO and Principal

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Mattmann, all
examples are
accompanied by
downloadable Jupyter
Notebooks for a
hands-on experience
coding TensorFlow
with Python. New and
revised content
expands coverage of
core machine learning
algorithms, and
advancements in

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machine learning! ML algorithms automatically improve as they process data, so results get better over time. You don't have to be a mathematician to use ML: Tools like Google's TensorFlow library help with complex calculations so you can focus on getting the answers

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you need. About the book Machine Learning with TensorFlow, Second Edition is a fully revised guide to building machine learning models using Python and TensorFlow. You'll apply core ML concepts to real-world challenges, such as sentiment analysis,

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image recognition.
Hands-on examples
illustrate neural
network techniques
for deep speech
processing, facial
identification, and
auto-encoding with
CIFAR-10. What's
inside Machine
Learning with
TensorFlow Choosing
the best ML

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approaches

Visualizing algorithms
with TensorBoard

Sharing results with
collaborators Running
models in Docker

About the reader

Requires intermediate
Python skills and

knowledge of general
algebraic concepts

like vectors and

matrices. Examples

use the super-stable

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1.15.x branch of
TensorFlow and
TensorFlow 2.x.

About the author

Chris Mattmann is the
Division Manager of
the Artificial
Intelligence, Analytics,
and Innovation

Organization at NASA
Jet Propulsion Lab.

The first edition of this
book was written by
Nishant Shukla with

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Kenneth Fricklas.

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models for chatbots
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This book focuses on
data and how modern

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business firms use social data, specifically Online Social Networks (OSNs) incorporated as part of the infrastructure for a number of emerging applications such as personalized recommendation systems, opinion analysis, expertise retrieval, and

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computational advertising. This book identifies how in such applications, social data offers a plethora of benefits to enhance the decision making process. This book highlights that business intelligence applications are more focused on structured data; however, in order to understand

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and analyse the social big data, there is a need to aggregate data from various sources and to present it in a plausible format. Big Social Data (BSD) exhibit all the typical properties of big data: wide physical distribution, diversity of formats, non-standard data models,

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independently-
managed and
heterogeneous
semantics but even
further valuable with
marketing
opportunities. The
book provides a
review of the current
state-of-the-art
approaches for big
social data analytics
as well as to present
dissimilar methods to

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infer value from social data. The book further examines several areas of research that benefits from the propagation of the social data. In particular, the book presents various technical approaches that produce data analytics capable of handling big data features and effective

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in filtering out
unsolicited data and
inferring a value.

These approaches
comprise advanced
technical solutions
able to capture huge
amounts of generated
data, scrutinise the
collected data to
eliminate unwanted
data, measure the
quality of the inferred
data, and transform

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the amended data for further data analysis. Furthermore, the book presents solutions to derive knowledge and sentiments from BSD and to provide social data classification and prediction. The approaches in this book also incorporate several technologies such as semantic discovery, sentiment

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analysis, affective computing and machine learning.

This book has additional special feature enriched with numerous illustrations such as tables, graphs and charts incorporating advanced visualisation tools in accessible and attractive display.

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There's growing interest in learning how to analyze streaming data in large-scale systems such as web traffic, financial transactions, machine logs, industrial sensors, and many others. But analyzing data streams at scale has been difficult to do well—until now. This

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practical book delivers a deep introduction to Apache Flink, a highly innovative open source stream processor with a surprising range of capabilities. Authors Ellen Friedman and Kostas Tzoumas show technical and nontechnical readers alike how Flink is engineered to

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overcome significant tradeoffs that have limited the effectiveness of other approaches to stream processing. You'll also learn how Flink has the ability to handle both stream and batch data processing with one technology. Learn the consequences of not doing streaming

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well—in retail and marketing, IoT, telecom, and banking and finance Explore how to design data architecture to gain the best advantage from stream processing Get an overview of Flink's capabilities and features, along with examples of how companies use Flink,

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including in
production Take a
technical dive into
Flink, and learn how it
handles time and
stateful computation
Examine how Flink
processes both
streaming
(unbounded) and
batch (bounded) data
without sacrificing
performance
It starts off by

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discussing Solr and helping you understand how it fits into your architecture_where all databases and document/web crawlers fall short, and Solr shines. The main part of the book is a thorough exploration of nearly every feature that Solr offers. To keep this

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interesting and realistic, we use a large open source set of metadata about artists, releases, and tracks courtesy of the MusicBrainz.org project. Using this data as a testing ground for Solr, you will learn how to import this data in various ways from CSV to XML to

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database access.

4th IFIP WG

5.5/SOCOLNET

Doctoral Conference

on Computing,

Electrical and

Industrial Systems,

DoCEIS 2013, Costa

de Caparica,

Portugal, April 15-17,

2013, Proceedings

Apache Solr for

Indexing Data

An expert guide to

Where To
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Technologies
advancing, optimizing,
and scaling your
enterprise search
Concepts,
Methodologies, Tools,
and Applications
Logistics 4.0
Big Data Concepts,
Theories, and
Applications
Apache Solr
*Ongoing
advancements in*

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*modern technology
have led to
significant
developments in
artificial
intelligence. With
the numerous
applications
available, it
becomes
imperative to
conduct research*

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*and make further
progress in this
field. Artificial
Intelligence:
Concepts,
Methodologies,
Tools, and
Applications
provides a
comprehensive
overview of the
latest*

Where To
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Technologies
*breakthroughs and
recent progress in
artificial
intelligence.
Highlighting
relevant
technologies, uses,
and techniques
across various
industries and
settings, this
publication is a*

Where To
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*pivotal reference
source for
researchers,
professionals,
academics, upper-
level students, and
practitioners
interested in
emerging
perspectives in the
field of artificial
intelligence.*

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*This book
constitutes the
refereed
proceedings of the
4th IFIP WG
5.5/SOCOLNET
Doctoral
Conference on
Computing,
Electrical and
Industrial Systems,
DoCEIS 2013, held*

Where To
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Technologies
*in Costa de
Caparica, Portugal,
in April 2013. The
69 revised full
papers were
carefully reviewed
and selected from
numerous
submissions. They
cover a wide
spectrum of topics
ranging from*

Where To
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*collaborative
enterprise
networks to
microelectronics.*

*The papers are
organized in the
following topical
sections:*

*collaborative
enterprise
networks; service
orientation;*

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*intelligent
computational
systems;
computational
systems;
computational
systems
applications;
perceptual
systems; robotics
and manufacturing;
embedded*

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*systems and Petri
nets; control and
decision;
integration of
power electronics
systems with ICT;
energy generation;
energy distribution;
energy
transformation;
optimization
techniques in*

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Technologies
*energy; telecommu-
nications;
electronics:
devices design;
electronics:
amplifiers;
electronics: RF
applications; and
electronics:
applications.
Designing and
writing a real-time*

Where To
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*streaming
publication with
Apache Apex
About This Book
Get a clear,
practical approach
to real-time data
processing
Program Apache
Apex streaming
applications This
book shows you*

Where To
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*Apex integration
with the open
source Big Data
ecosystem Who
This Book Is For
This book
assumes
knowledge of
application
development with
Java and familiarity
with distributed*

Where To Download Learn Apache Tika Java systems.

Familiarity with other real-time streaming frameworks is not required, but some practical experience with other big data processing utilities might be helpful.

What You Will

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*Learn Put together
a functioning Apex
application from
scratch Scale an
Apex application
and configure it for
optimal
performance
Understand how to
deal with failures
via the fault
tolerance features*

Where To
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Technologies
*of the platform Use
Apex via other
frameworks such
as Beam
Understand the
DevOps
implications of
deploying Apex In
Detail Apache
Apex is a next-
generation stream
processing*

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*framework
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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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 explaining the Apex

Where To
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Technologies
*framework, and
tuning, testing, and
scaling Apex
applications. Much
of our economic
world depends on
growing streams of
data, such as
social media
feeds, financial
records, data from
mobile devices,*

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sensors and machines (the Internet of Things - IoT). The projects in the book show how to process such streams to gain valuable, timely, and actionable insights. Traditional use cases, such as

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ETL, that currently consume a significant chunk of data engineering resources are also covered. The final chapter shows you future possibilities emerging in the streaming space, and how Apache Apex can

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contribute to it.

Style and

approach This

book is divided into

two major parts:

first it explains

what Apex is, what

its relevant parts

are, and how to

write well-built

Apex applications.

The second part is

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entirely application-driven, walking you through Apex applications of increasing complexity.

Build an enterprise search engine using Apache Solr: index and search documents; ingest data from varied

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sources; apply various text processing techniques; utilize different search capabilities; and customize Solr to retrieve the desired results. Apache Solr: A Practical Approach to Enterprise Search

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*explains each
essential concept-
backed by
practical and
industry
examples--to help
you attain expert-
level knowledge.
The book, which
assumes a basic
knowledge of
Java, starts with an*

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introduction to Solr, followed by steps to setting it up, indexing your first set of documents, and searching them. It then introduces you to information retrieval and its implementation in Apache Solr; this

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will help you understand your search problem, decide the approach to build an effective solution, and use various metrics to evaluate the results. The book next covers the schema design

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*and techniques to
build a text
analysis chain for
cleansing,
normalizing and
enriching your
documents and
addressing
different types of
search queries. It
describes various
popular matching*

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*techniques which
are generally
applied to improve
the precision and
recall of searches.
You will learn the
end-to-end
process of data
ingestion from
varied sources,
metadata
extraction, pre-*

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processing and transformation of content, various search components, query parsers and other advanced search capabilities. After covering out-of-the-box features, Solr expert Dikshant Shahi dives into

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*ways you can
customize Solr for
your business and
its specific
requirements,
along with ways to
plug in your own
components. Most
important, you will
learn about
implementations
for Solr scoring,*

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factors affecting the document score, and tuning the score for the application at hand. The book explains why textual scoring is not sufficient for practical ranking of documents and ways to integrate

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*real-world factors
for contributing to
the document
ranking. You'll see
how to influence
user experience by
providing
suggestions and
recommendations.
You'll also see
integration of Solr
with important*

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related technologies such as OpenNLP and Tika. Additionally, you will learn about scaling Solr using SolrCloud. This book concludes with coverage of semantic search capabilities, which is crucial for taking

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*the search
experience to the
next level. By the
end of Apache
Solr, you will be
proficient in
designing and
developing your
search engine.
Lightning-Fast Big
Data Analysis
Pro Hadoop Data*

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Analytics

*Big data, machine
learning, and
more, using Python
tools*

*Introducing Data
Science*

*Proceedings of
ICMLIP 2020*

*Dawn of the Code
War*

Practices,

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*Techniques, and
Applications*

Data in all domains is getting bigger. How can you work with it efficiently? Recently updated for Spark 1.3, this book introduces Apache Spark, the open source cluster computing system that makes data

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analytics fast to
write and fast to
run. With Spark,
you can tackle big
datasets quickly
through simple
APIs in Python,
Java, and Scala.
This edition
includes new
information on
Spark SQL, Spark
Streaming, setup,
and Maven

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coordinates.

Written by the developers of Spark, this book will have data scientists and engineers up and running in no time. You ' ll learn how to express parallel jobs with just a few lines of code, and cover applications from simple batch

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jobs to stream processing and machine learning. Quickly dive into Spark capabilities such as distributed datasets, in-memory caching, and the interactive shell Leverage Spark ' s powerful built-in libraries, including Spark SQL, Spark

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Streaming, and
MLlib Use one
programming
paradigm instead of
mixing and
matching tools like
Hive, Hadoop,
Mahout, and Storm
Learn how to
deploy interactive,
batch, and
streaming
applications
Connect to data

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sources including
HDFS, Hive, JSON,
and S3 Master
advanced topics like
data partitioning
and shared
variables

This book is a step-
by-step guide for
readers who would
like to learn how to
build complete
enterprise search
solutions, with

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ample real-world examples and case studies. If you are a developer, designer, or architect who would like to build enterprise search solutions for your customers or organization, but have no prior knowledge of Apache Solr/Lucene

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technologies, this is
the book for you.

Big data has
presented a number
of opportunities
across industries.

With these
opportunities come
a number of
challenges
associated with
handling, analyzing,
and storing large
data sets. One

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solution to this challenge is cloud computing, which supports a massive storage and computation facility in order to accommodate big data processing.

Managing and Processing Big Data in Cloud Computing explores the challenges of

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supporting big data processing and cloud-based platforms as a proposed solution. Emphasizing a number of crucial topics such as data analytics, wireless networks, mobile clouds, and machine learning, this publication meets the research needs

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of data analysts, IT professionals, researchers, graduate students, and educators in the areas of data science, computer programming, and IT development.

Industrial revolutions have impacted both, manufacturing and service. From the

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steam engine to digital automated production, the industrial revolutions have conducted significant changes in operations and supply chain management (SCM) processes. Swift changes in manufacturing and service systems

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have led to phenomenal improvements in productivity. The fast-paced environment brings new challenges and opportunities for the companies that are associated with the adaptation to the new concepts such as Internet of Things (IoT) and

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Cyber Physical Systems, artificial intelligence (AI), robotics, cyber security, data analytics, block chain and cloud technology. These emerging technologies facilitated and expedited the birth of Logistics 4.0. Industrial

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Revolution 4.0 initiatives in SCM has attracted stakeholders' attentions due to its ability to empower using a set of technologies together that helps to execute more efficient production and distribution systems. This initiative has been

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called Logistics 4.0
of the fourth

Industrial
Revolution in SCM
due to its high
potential.

Connecting entities,
machines, physical
items and
enterprise
resources to each
other by using
sensors, devices
and the internet

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along the supply chains are the main attributes of Logistics 4.0. IoT enables customers to make more suitable and valuable decisions due to the data-driven structure of the Industry 4.0 paradigm. Besides that, the system 's ability of gathering

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and analyzing information about the environment at any given time and adapting itself to the rapid changes add significant value to the SCM processes. In this peer-reviewed book, experts from all over the world, in the field present a conceptual

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framework for
Logistics 4.0 and
provide examples
for usage of
Industry 4.0 tools in
SCM. This book is a
work that will be
beneficial for both
practitioners and
students and
academicians, as it
covers the
theoretical
framework, on the

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one hand, and
includes examples
of practice and real
world.

Enhance Your
Search with
Faceted Navigation,
Result Highlighting,
Fuzzy Queries,
Ranked Scoring,
and More
Natural Language
Processing with
Java

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Building Digital
Technologies
Experience

Platforms

Lucene in Action

Real-time streaming
applications with

Apex

Hadoop: The

Definitive Guide

XQuery Kick Start

This volume

includes 73

papers

Where To
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presented at
Technologies
ICTIS 2017:

Second
International
Conference on
Information and
Communication
Technology for
Intelligent
Systems. The
conference was
held on 25th
and 26th March

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2017, in
Ahmedabad,
India and
organized
jointly by the
Associated
Chambers of
Commerce and
Industry of
India
(ASSOCHAM)
Gujarat
Chapter, the G

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R Foundation,
the Association
of Computer
Machinery,
Ahmedabad
Chapter and
supported by
the Computer
Society of
India Division
IV –
Communication
and Division V

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- Education and Research. The papers featured mainly focus on information and communications technology (ICT) and its applications in intelligent computing, cloud storage, data mining and

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software analysis. The fundamentals of various data analytics and algorithms discussed are useful to researchers in the field.

Ready to unlock the power of your data? With

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this comprehensive guide, you'll learn how to build and maintain reliable, scalable, distributed systems with Apache Hadoop. This book is ideal for

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programmers
looking to
analyze
datasets of any
size, and for
administrators
who want to set
up and run
Hadoop
clusters.
You'll find
illuminating
case studies

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that demonstrate how Hadoop is used to solve specific problems. This third edition covers recent changes to Hadoop, including material on the new MapReduce

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API, as well as
MapReduce 2 and
its more
flexible
execution model
(YARN). Store
large datasets
with the Hadoop
Distributed
File System
(HDFS) Run
distributed
computations

Where To Download Learn Apache Tika, Java with MapReduce Technologies

Use Hadoop's
data and I/O
building blocks
for

compression,
data integrity,
serialization
(including

Avro), and
persistence

Discover common
pitfalls and

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advanced features for writing real-world MapReduce programs. Design, build, and administer a dedicated Hadoop cluster—or run Hadoop in the cloud. Load data from relational

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databases into
HDFS, using
Sqoop Perform
large-scale
data processing
with the Pig
query language
Analyze
datasets with
Hive, Hadoop's
data
warehousing
system Take

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advantage of
HBase for
structured and
semi-structured
data, and
ZooKeeper for
building
distributed
systems
Use digital
experience
platforms (DXP)
to improve your

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development
productivity
and release
timelines.

Leverage the
pre-integrated
feature sets of
DXPs in your
organization's
digital
transformation
journey to
quickly develop

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a personalized,
secure, and
robust
enterprise
platform. In
this book the
authors examine
various
features of
DXPs and
provide rich
insights into
building each

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layer in a
digital
platform.

Proven best
practices are
presented with
examples for
designing and
building
layers. A
special focus
is provided on
security and

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quality attributes needed for business-critical enterprise applications. The authors cover modern and emerging digital trends such as Blockchain, IoT,

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containers,
chatbots,
artificial
intelligence,
and more. The
book is divided
into five parts
related to requ
irements/design
, development,
security,
infrastructure,
and case study.

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The authors employ proven real-world methods, best practices, and security and integration techniques derived from their rich experience. An elaborate digital

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transformation
case study for
a banking
application is
included. What
You'll Learn
Develop a
digital
experience
platform from
end to
end Understand
best practices

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and proven
methods for
designing
overall
architecture,
user interface
and integration
components,
security, and i
nfrastructureSt
udy real-world
cases,
including an

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elaborate
digital
transformation
building an
enterprise
platform for a
banking
application
Know
the open source
tools and
technology
frameworks that
can be used to

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build DXPs Who
This Book Is

For Web
developers,
full stack
developers,
digital
enthusiasts,
digital project
managers, and
architects

Summary Deep
Learning for

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Search teaches you how to improve the effectiveness of your search by implementing neural network-based techniques. By the time you're finished with the book, you'll be ready

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to build
amazing search
engines that
deliver the
results your
users need and
that get better
as time goes
on! Foreword by
Chris Mattmann.
Purchase of the
print book
includes a free

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from Manning
Publications.

About the
Technology Deep
learning
handles the
toughest search
challenges,
including
imprecise

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search terms, badly indexed data, and retrieving images with minimal metadata. And with modern tools like DL4J and TensorFlow, you can apply powerful DL techniques

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without a deep background in data science or natural language processing (NLP). This book will show you how. About the Book Deep Learning for Search teaches you to improve

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your search results with neural networks. You'll review how DL relates to search basics like indexing and ranking. Then, you'll walk through in-depth examples

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to upgrade your search with DL techniques using Apache Lucene and Deeplearning4j. As the book progresses, you'll explore advanced topics like searching through images, translating

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user queries,
and designing
search engines
that improve as
they learn!

What's inside
Accurate and
relevant
rankings

Searching
across
languages

Content-based

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image search
Search with
recommendations
About the
Reader For
developers
comfortable
with Java or a
similar
language and
search basics.
No experience
with deep

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learning or NLP

needed. About

the Author

Tommaso Teofili

is a software

engineer with a

passion for

open source and

machine

learning. As a

member of the

Apache Software

Foundation, he

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contributes to a number of open source projects, ranging from topics like information retrieval (such as Lucene and Solr) to natural language processing and

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machine
translation
(including
OpenNLP,
Joshua, and
UIMA). He
currently works
at Adobe,
developing
search and
indexing
infrastructure
components, and

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researching the
areas of

natural

language

processing,

information

retrieval, and

deep learning.

He has

presented

search and

machine

learning talks

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including Berli
nBuzzwords,
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others. You can
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Twitter at
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Computing

A Guide to
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Generation

Enterprise
Applications

Information and
Communication

Technology for
Intelligent

Systems (ICTIS)

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2017) - Volume
2

Machine
Learning and
Information
Processing
CMIS and Apache
Chemistry in
Action
Summary Mahout
in Action is a
hands-on

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introduction to machine learning with Apache Mahout. Following real-world examples, the book presents practical use cases and then illustrates how Mahout can be applied to solve them. Includes a

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free audio- and video-enhanced ebook. About the Technology A computer system that learns and adapts as it collects data can be really powerful. Mahout, Apache's open source machine learning

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project, captures
the core algorithms
of
recommendation
systems,
classification, and
clustering in ready-
to-use, scalable
libraries. With
Mahout, you can
immediately apply
to your own

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projects the
machine learning
techniques that
drive Amazon,
Netflix, and others.

About this Book

This book covers
machine learning
using Apache
Mahout. Based on
experience with
real-world

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applications, it introduces practical use cases and illustrates how Mahout can be applied to solve them. It places particular focus on issues of scalability and how to apply these techniques against

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large data sets
using the Apache
Hadoop
framework. This
book is written for
developers familiar
with Java -- no
prior experience
with Mahout is
assumed. Owners
of a Manning
pBook purchased

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Inside Use group
data to make
individual
recommendations
Find logical
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fly classification
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Introducing
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production

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recommendation
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PART 2

CLUSTERING

Introduction to
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and improving

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Introduction to
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study: Shop It To
Me

The inside story of
how America's
enemies launched
a cyber war
against us-and
how we've learned
to fight back With

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each passing year,
the internet-linked
attacks on

America's interests
have grown in both
frequency and
severity.

Overmatched by
our military,
countries like
North Korea,
China, Iran, and

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Russia have found us vulnerable in cyberspace. The "Code War" is upon us. In this dramatic book, former Assistant Attorney General John P. Carlin takes readers to the front lines of a global but little-

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understood fight
as the Justice
Department and
the FBI chases
down hackers,
online terrorist
recruiters, and
spies. Today, as
our entire
economy goes
digital, from
banking to

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manufacturing to
transportation, the
potential targets
for our enemies
multiply. This
firsthand account
is both a
remarkable untold
story and a
warning of
dangers yet to
come.

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Explore various approaches to organize and extract useful text from unstructured data using Java Key Features Use deep learning and NLP techniques in Java to discover hidden insights in text Work with

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popular Java
Technologies
libraries such as
CoreNLP,
OpenNLP, and
Mallet Explore
machine
translation,
identifying parts of
speech, and topic
modeling Book
Description Natural
Language

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Processing (NLP) allows you to take any sentence and identify patterns, special names, company names, and more. The second edition of Natural Language Processing with Java teaches you how to perform

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language analysis with the help of Java libraries, while constantly gaining insights from the outcomes. You'll start by understanding how NLP and its various concepts work. Having got

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to grips with the basics, you'll explore important tools and libraries in Java for NLP, such as CoreNLP, OpenNLP, Neuroph, and Mallet. You'll then start performing NLP on different inputs and tasks,

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such as
tokenization,
model training,
parts-of-speech
and parsing trees.
You'll learn about
statistical machine
translation,
summarization,
dialog systems,
complex searches,
supervised and

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Technologies
unsupervised NLP,
and more. By the
end of this book,
you'll have
learned more
about NLP, neural
networks, and
various other
trained models in
Java for enhancing
the performance of
NLP applications.

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What you will learn
Understand basic
NLP tasks and
how they relate to
one another
Discover and use
the available
tokenization
engines Apply
search techniques
to find people, as
well as things,

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within a document
Construct solutions
to identify parts of
speech within
sentences Use
parsers to extract
relationships
between elements
of a document
Identify topics in a
set of documents
Explore topic

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modeling from a
document Who
this book is for
Natural Language
Processing with
Java is for you if
you are a data
analyst, data
scientist, or
machine learning
engineer who
wants to extract

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information from a
language using
Java. Knowledge
of Java

programming is
needed, while a
basic

understanding of
statistics will be
useful but not
mandatory.

Summary CMIS

Where To
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Technologies

and Apache
Chemistry in
Action is a
comprehensive
guide to the CMIS
standard and
related ECM
concepts, written
by the authors of
the standard. In it,
you'll tackle hands-
on examples for

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building applications on CMIS repositories from both the client and the server sides. You'll learn how to create new content-centric applications that install and run in any CMIS-compliant

Where To
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repository. About
Technologies
The Technology
Content
Management
Interoperability
Services (CMIS) is
an OASIS
standard for
accessing content
management
systems. It
specifies a vendor-

Where To
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and language-
Technologies
neutral way to
interact with any
compliant content
repository. Apache
Chemistry
provides complete
reference
implementations of
the CMIS standard
with robust APIs
for developers

Where To
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writing tools,
Technologies
applications, and
servers. About
This Book CMIS
and Apache
Chemistry in
Action is a
comprehensive
guide to the CMIS
standard and
related ECM
concepts. In it,

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you'll find clear teaching and instantly useful examples for building content-centric client and server-side applications that run against any CMIS-compliant repository. In fact, using the CMIS

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Workbench and
the InMemory
Repository from
Apache Chemistry,
you'll have running
code talking to a
real CMIS server
by the end of
chapter 1. This
book requires
some familiarity
with content

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management systems and a standard programming language like Java or C#. No exposure to CMIS or Apache Chemistry is assumed.

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ePub formats from
Manning
Publications.

What's Inside The
only CMIS book
endorsed by
OASIS Complete
coverage of the
CMIS 1.0 and 1.1
specifications

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Cookbook-style
tutorials and real-
world examples
About the Authors
Florian Müller, Jay
Brown, and Jeff
Potts are among
the original
authors,
contributors, and
leaders of Apache
Chemistry and the

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OASIS CMIS
specification. They
continue to shape
CMIS

implementations at
Alfresco, IBM, and
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metadata: types
and properties
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CLIENT
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Meet your new

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and query
functionality The
Blend: create,
update, and delete
functionality Using
other client
libraries Building
mobile apps with
CMIS PART 3
ADVANCED

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TOPICS CMIS
bindings Security
and control
Performance
Building a CMIS
server
Java for Data
Science
Principles and
Practice
Expert Hadoop 2
Administration

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Hands-On for
Developers and
Technical
Professionals
R in Action, Third
Edition

Introduction to
Apache Flink
Solr in Action

*Dig deep into the data
with a hands-on guide
to machine learning*

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*with updated examples
and more! Machine
Learning: Hands-On for
Developers and
Technical Professionals
provides hands-on
instruction and fully-
coded working examples
for the most common
machine learning
techniques used by
developers and
technical professionals.*

The book contains a

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breakdown of each ML variant, explaining how it works and how it is used within certain industries, allowing readers to incorporate the presented techniques into their own work as they follow along. A core tenant of machine learning is a strong focus on data preparation, and a full exploration of the

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various types of learning algorithms illustrates how the proper tools can help any developer extract information and insights from existing data. The book includes a full complement of Instructor's Materials to facilitate use in the classroom, making this resource useful for students and as a

Where To Download Learn Apache Tika Java *professional reference.*

At its core, machine learning is a mathematical, algorithm-based technology that forms the basis of historical data mining and modern big data science. Scientific analysis of big data requires a working knowledge of machine learning, which forms predictions based on

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*known properties
learned from training
data. Machine Learning
is an accessible,
comprehensive guide for
the non-mathematician,
providing clear
guidance that allows
readers to: Learn the
languages of machine
learning including
Hadoop, Mahout, and
Weka Understand
decision trees, Bayesian*

Where To Download Learn Apache Tika, Java Technologies *networks, and artificial neural networks*

*Implement Association
Rule, Real Time, and
Batch learning Develop
a strategic plan for safe,
effective, and efficient
machine learning By
learning to construct a
system that can learn
from data, readers can
increase their utility
across industries.*

Machine learning sits at
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*the core of deep dive
data analysis and
visualization, which is
increasingly in demand
as companies discover
the goldmine hiding in
their existing data. For
the tech professional
involved in data science,
Machine Learning:
Hands-On for
Developers and
Technical Professionals
provides the skills and*

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*techniques required to
dig deeper.*

*When Lucene first hit
the scene five years ago,
it was nothing short
of amazing. By using this
open-source, highly
scalable, super-fast
search
engine, developers could
integrate search into
applications quickly and
efficiently. A lot has
changed since then-*

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*search has grown from
a "nice-to-have"*

*feature into an
indispensable part of
most enterprise*

*applications. Lucene
now powers search in*

*diverse companies
including Akamai,*

Netflix,

LinkedIn, Technorati,

HotJobs, Epiphany,

FedEx, Mayo Clinic,

MIT, New

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ScientistMagazine, and many others. Some things remain the same, though. Lucene still delivers high-performance search features in a disarmingly easy-to-use API. Due to its vibrant and diverse open-source community of developers and users, Lucene is relentlessly improving, with

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*evolutions to APIs,
significant new features
such as payloads, and
ahuge increase (as
much as 8x) in indexing
speed with Lucene 2.3.
And with clear writing,
reusable examples, and
unmatched advice on
bestpractices, Lucene in
Action, Second Edition
is still the definitive
guide todeveloping with
Lucene. Purchase of the*

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print book comes with an offer of a free PDF, ePub, and Kindle eBook from Manning. Also available is all code from the book.

Tika in Action Simon and Schuster

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with the bound book.

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clusters for six years.

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resource for all

administrators looking

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*to spec, size, expand,
and secure production
Hadoop clusters of any
size.” —Paul Dix, Series
Editor In Expert*

*Hadoop®
Administration, leading
Hadoop administrator
Sam R. Alapati brings
together authoritative
knowledge for creating,
configuring, securing,
managing, and
optimizing production*

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Hadoop clusters in any environment. Drawing on his experience with large-scale Hadoop administration, Alapati integrates action-oriented advice with carefully researched explanations of both problems and solutions. He covers an unmatched range of topics and offers an unparalleled collection of realistic

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examples. Alapati demystifies complex Hadoop environments, helping you understand exactly what happens behind the scenes when you administer your cluster. You'll gain unprecedented insight as you walk through building clusters from scratch and configuring high availability, performance, security,

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encryption, and other key attributes. The high-value administration skills you learn here will be indispensable no matter what Hadoop distribution you use or what Hadoop applications you run. Understand Hadoop's architecture from an administrator's standpoint Create simple and fully

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Technologies
*distributed clusters Run
MapReduce and Spark
applications in a
Hadoop cluster Manage
and protect Hadoop
data and high
availability Work with
HDFS commands, file
permissions, and
storage management
Move data, and use
YARN to allocate
resources and schedule
jobs Manage job*

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*workflows with Oozie
and Hue Secure,
monitor, log, and
optimize Hadoop
Benchmark and
troubleshoot Hadoop
Machine Learning
A Practical Approach to
Enterprise Search
Learning Apache Apex
Data analysis and
graphics with R and
Tidyverse*

Managing and
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*Processing Big Data in
Cloud Computing*

Learning Spark

A practical guide to
implementing your
enterprise data lake
using Lambda
Architecture as the
base About This
Book Build a full-
fledged data lake for
your organization

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with popular big
data technologies
using the Lambda
architecture as the
base Delve into the
big data technologies
required to meet
modern day business
strategies A highly
practical guide to
implementing
enterprise data lakes

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with lots of
examples and real-
world use-cases

Who This Book Is
For Java developers
and architects who
would like to
implement a data
lake for their
enterprise will find
this book useful. If
you want to get

Where To
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Technologies
hands-on experience
with the Lambda
Architecture and big
data technologies by
implementing a
practical solution
using these
technologies, this
book will also help
you. What You Will
Learn Build an
enterprise-level data

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lake using the
relevant big data
technologies

Understand the core
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architecture and how
to apply it in an
enterprise Learn the
technical details
around Sqoop and its
functionalities

Integrate Kafka with

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Hadoop components
to acquire enterprise
data Use flume with
streaming
technologies for
stream-based
processing
Understand stream-
based processing
with reference to
Apache Spark
Streaming

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Incorporate Hadoop
components and
know the advantages
they provide for
enterprise data lakes
Build fast,
streaming, and high-
performance
applications using
ElasticSearch Make
your data ingestion
process consistent

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across various data
formats with
configurability

Process your data to
derive intelligence
using machine
learning algorithms

In Detail The term
"Data Lake" has
recently emerged as
a prominent term in
the big data industry.

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Data scientists can make use of it in deriving meaningful insights that can be used by businesses to redefine or transform the way they operate.

Lambda architecture is also emerging as one of the very eminent patterns in

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the big data landscape, as it not only helps to derive useful information from historical data but also correlates real-time data to enable business to take critical decisions. This book tries to bring these two important

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aspects — data lake
and lambda architect
ure—together. This
book is divided into
three main sections.
The first introduces
you to the concept of
data lakes, the
importance of data
lakes in enterprises,
and getting you up-
to-speed with the

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Lambda architecture.
The second section
delves into the
principal
components of
building a data lake
using the Lambda
architecture. It
introduces you to
popular big data
technologies such as
Apache Hadoop,

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Spark, Sqoop,
Flume, and
ElasticSearch. The
third section is a
highly practical
demonstration of
putting it all
together, and shows
you how an
enterprise data lake
can be implemented,
along with several

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real-world use-cases.
It also shows you
how other peripheral
components can be
added to the lake to
make it more
efficient. By the end
of this book, you
will be able to
choose the right big
data technologies
using the lambda

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architectural patterns
to build your

enterprise data lake.

Style and approach

The book takes a

pragmatic approach,

showing ways to

leverage big data

technologies and

lambda architecture

to build an enterprise-

level data lake.

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Search is everywhere, yet it is one of the most misunderstood functionalities of the IT industry. In *Apache Solr*, author Xavier Morera guides you through the basics of this highly popular enterprise search

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tool. You'll learn
how to set up an
index and how to
make it searchable,
then query it with a
simple enterprise
search. Explanations
for precision and
recall are also
included to help you
ensure that relevant,
accurate results have

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been returned.

Custom UIs using
SolrItas and SolrNet
are also covered.

This updated and
expanded second
edition of Book
provides a user-
friendly introduction
to the subject,
Taking a clear
structural

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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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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.
Learn advanced

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analytical techniques
and leverage existing
tool kits to make
your analytic
applications more
powerful, precise,
and efficient. This
book provides the
right combination of
architecture, design,
and implementation
information to create

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analytical systems
that go beyond the
basics of
classification,
clustering, and
recommendation.

Pro Hadoop Data
Analytics

emphasizes best
practices to ensure
coherent, efficient
development. A

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complete example system will be developed using standard third-party components that consist of the tool kits, libraries, visualization and reporting code, as well as support glue to provide a working and extensible end-

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to-end system. The book also highlights the importance of end-to-end, flexible, configurable, high-performance data pipeline systems with analytical components as well as appropriate visualization results. You'll discover the

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importance of mix-
and-match or hybrid
systems, using
different analytical
components in one
application. This
hybrid approach will
be prominent in the
examples. What
You'll Learn Build
big data analytic
systems with the

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Hadoop ecosystem
Use libraries, tool
kits, and algorithms
to make
development easier
and more effective
Apply metrics to
measure
performance and
efficiency of
components and
systems Connect to

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standard relational
databases, noSQL
data sources, and
more Follow case
studies with example
components to create
your own systems
Who This Book Is
For Software
engineers, architects,
and data scientists
with an interest in

Where To
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Technologies
the design and
implementation of
big data analytical
systems using
Hadoop, the Hadoop
ecosystem, and other
associated
technologies.