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Practical Data Science With Hadoop And Spark

Benjamin Bengfort, Jenny Kim



Practical Data Science With Hadoop And Spark:

Practical Data Science with Hadoop and Spark Ofer Mendeleevitch, Casey Stella, Douglas Eadline, 2016-12-08 The Complete Guide to Data Science with Hadoop For Technical Professionals Businesspeople and Students Demand is soaring for professionals who can solve real data science problems with Hadoop and Spark Practical Data Science with Hadoop and Spark is your complete guide to doing just that Drawing on immense experience with Hadoop and big data three leading experts bring together everything you need high level concepts deep dive techniques real world use cases practical applications and hands on tutorials The authors introduce the essentials of data science and the modern Hadoop ecosystem explaining how Hadoop and Spark have evolved into an effective platform for solving data science problems at scale In addition to comprehensive application coverage the authors also provide useful guidance on the important steps of data ingestion data munging and visualization Once the groundwork is in place the authors focus on specific applications including machine learning predictive modeling for sentiment analysis clustering for document analysis anomaly detection and natural language processing NLP This guide provides a strong technical foundation for those who want to do practical data science and also presents business driven guidance on how to apply Hadoop and Spark to optimize ROI of data science initiatives Learn What data science is how it has evolved and how to plan a data science career How data volume variety and velocity shape data science use cases Hadoop and its ecosystem including HDFS MapReduce YARN and Spark Data importation with Hive and Spark Data quality preprocessing preparation and modeling Visualization surfacing insights from huge data sets Machine learning classification regression clustering and anomaly detection Algorithms and Hadoop tools for predictive modeling Cluster analysis and similarity functions Large scale anomaly detection NLP applying data science to human language

[Practical Data Science with Python](#) Nathan George, 2021-09-30 Learn to effectively manage data and execute data science projects from start to finish using Python Key Features Understand and utilize data science tools in Python such as specialized machine learning algorithms and statistical modeling Build a strong data science foundation with the best data science tools available in Python Add value to yourself your organization and society by extracting actionable insights from raw data Book Description Practical Data Science with Python teaches you core data science concepts with real world and realistic examples and strengthens your grip on the basic as well as advanced principles of data preparation and storage statistics probability theory machine learning and Python programming helping you build a solid foundation to gain proficiency in data science The book starts with an overview of basic Python skills and then introduces foundational data science techniques followed by a thorough explanation of the Python code needed to execute the techniques You'll understand the code by working through the examples The code has been broken down into small chunks a few lines or a function at a time to enable thorough discussion As you progress you will learn how to perform data analysis while exploring the functionalities of key data science Python packages including pandas SciPy and scikit learn Finally the book covers ethics

and privacy concerns in data science and suggests resources for improving data science skills as well as ways to stay up to date on new data science developments By the end of the book you should be able to comfortably use Python for basic data science projects and should have the skills to execute the data science process on any data source What you will learn Use Python data science packages effectively Clean and prepare data for data science work including feature engineering and feature selection Data modeling including classic statistical models such as t tests and essential machine learning algorithms such as random forests and boosted models Evaluate model performance Compare and understand different machine learning methods Interact with Excel spreadsheets through Python Create automated data science reports through Python Get to grips with text analytics techniques Who this book is for The book is intended for beginners including students starting or about to start a data science analytics or related program e.g Bachelor's Master's bootcamp online courses recent college graduates who want to learn new skills to set them apart in the job market professionals who want to learn hands on data science techniques in Python and those who want to shift their career to data science The book requires basic familiarity with Python A getting started with Python section has been included to get complete novices up to speed

Practical Data Analytics for BFSI: Leveraging Data Science for Driving Decisions in Banking, Financial Services, and Insurance Operations Bharat Sikka, Dr. Priyender, Dr. Prashant, 2023-09-02 Revolutionizing BFSI with Data Analytics Key Features Real world examples and exercises will ground you in the practical application of analytics techniques specific to BFSI Master Python for essential coding SQL for data manipulation and industry leading tools like IBM SPSS and Power BI for sophisticated analyses Understand how data driven strategies generate profits mitigate risks and redefine customer support dynamics within the BFSI sphere Book Description Are you looking to unlock the transformative potential of data analytics in the dynamic world of Banking Financial Services and Insurance BFSI This book is your essential guide to mastering the intricate interplay of data science and analytics that underpins the BFSI landscape Designed for intermediate level practitioners as well as those aspiring to join the ranks of BFSI analytics professionals this book is your compass in the data driven realm of banking Address the unique challenges and opportunities of the BFSI sector using Artificial Intelligence and Machine Learning models for a data driven analysis What you will learn Delve into the world of Data Science including Artificial Intelligence and Machine Learning with a focus on their application within BFSI Explore hands on examples and step by step tutorials that provide practical solutions to real world challenges faced by banking institutions Develop skills in essential programming languages such as Python fundamentals and SQL intermediate crucial for effective data manipulation and analysis Gain insights into how businesses adapt data driven strategies to make informed decisions leading to improved operational efficiency Who is this book for This book is tailored for professionals already engaged in or seeking roles within Data Analytics in the BFSI industry Additionally it serves as a strategic resource for business leaders and upper management guiding them in shaping data platforms and products within their organizations Table of Contents 1 Introduction to BFSI and

Data Driven Banking 2 Introduction to Analytics and Data Science 3 Major Areas of Analytics Utilization 4 Understanding Infrastructures behind BFSI for Analytics 5 Data Governance and AI ML Model Governance in BFSI 6 Domains of BFSI and team planning 7 Customer Demographic Analysis and Customer Segmentation 8 Text Mining and Social Media Analytics 9 Lead Generation Through Analytical Reasoning and Machine Learning 10 Cross Sell and Up Sell of Products through Machine Learning 11 Pricing Optimization 12 Data Envelopment Analysis 13 ATM Cash Forecasting 14 Unstructured Data Analytics 15 Fraud Modelling 16 Detection of Money Laundering and Analysis 17 Credit Risk and Stressed Assets 18 High Performance Architectures On Premises and Cloud 19 Growing Trends in the Data Driven Future of BFSI Index *Practical Data Science Environments with Python and R* Astha Puri,Rohan Mathur,2026-01-30 From Beginner to Practitioner A Practical Path to Learning Data Science Key Features Build production ready data science environments from scratch Learn Python and R through complete real world workflows for cleaning visualizing and modeling data Learn real world and practical workflows used by modern data organizations Book Description Data science often fails beginners not because of complex algorithms but because setting up the right tools environments and workflows is confusing and poorly explained Practical Data Science Environments with Python and R fills that gap by focusing on the practical foundations required to work effectively in real data science settings You begin by developing a clear understanding of the data science landscape including how different programming languages tools and platforms are used across analytics and machine learning workflows As you advance you learn how to import structured and unstructured data apply systematic cleaning and transformation techniques and perform exploratory analysis to understand data behavior You will implement and evaluate foundational models while learning how to organize code manage versions with Git and follow workflows used in professional data teams The final chapters connect these skills to industry use cases advanced topics and next steps preparing you to continue growing beyond the basics What you will learn Build complete reproducible data science environments from scratch Prepare raw data through structured cleaning and transformation processes Apply Python and R workflows for end to end data analysis tasks Visualize data to identify patterns and communicate analytical insights Implement and evaluate foundational machine learning models Manage data science projects using industry standard version control workflows Table of Contents 1 An Overview of Data Science 2 Comparing Programming Languages and Various Environments 3 Setting Up Data Science Environment 4 Importing and Cleaning Data in Python and R 5 Data Wrangling and Manipulation in Python and R 6 Data Visualization in Python and R 7 Introduction to Data Science Algorithms 8 Implementing Machine Learning Models 9 Version Control with Git 10 Data Science and Analytics in Industry 11 Advanced Topics and Next Steps Index

Handbook of IoT and Big Data Vijender Kumar Solanki,Vicente García Díaz,J. Paulo Davim,2019-02-21 This multi contributed handbook focuses on the latest workings of IoT internet of Things and Big Data As the resources are limited it s the endeavor of the authors to support and bring the information into one resource The book is divided into 4 sections that

covers IoT and technologies the future of Big Data algorithms and case studies showing IoT and Big Data in various fields such as health care manufacturing and automation Features Focuses on the latest workings of IoT and Big Data Discusses the emerging role of technologies and the fast growing market of Big Data Covers the movement toward automation with hardware software and sensors and trying to save on energy resources Offers the latest technology on IoT Presents the future horizons on Big Data

Data Analytics with Spark Using Python Jeffrey Aven,2018-06-18 Solve Data Analytics Problems with Spark PySpark and Related Open Source Tools Spark is at the heart of today s Big Data revolution helping data professionals supercharge efficiency and performance in a wide range of data processing and analytics tasks In this guide Big Data expert Jeffrey Aven covers all you need to know to leverage Spark together with its extensions subprojects and wider ecosystem Aven combines a language agnostic introduction to foundational Spark concepts with extensive programming examples utilizing the popular and intuitive PySpark development environment This guide s focus on Python makes it widely accessible to large audiences of data professionals analysts and developers even those with little Hadoop or Spark experience Aven s broad coverage ranges from basic to advanced Spark programming and Spark SQL to machine learning You ll learn how to efficiently manage all forms of data with Spark streaming structured semi structured and unstructured Throughout concise topic overviews quickly get you up to speed and extensive hands on exercises prepare you to solve real problems Coverage includes Understand Spark s evolving role in the Big Data and Hadoop ecosystems Create Spark clusters using various deployment modes Control and optimize the operation of Spark clusters and applications Master Spark Core RDD API programming techniques Extend accelerate and optimize Spark routines with advanced API platform constructs including shared variables RDD storage and partitioning Efficiently integrate Spark with both SQL and nonrelational data stores Perform stream processing and messaging with Spark Streaming and Apache Kafka Implement predictive modeling with SparkR and Spark MLlib

Practical Big Data Analytics Nataraj Dasgupta,2018-01-15 Get command of your organizational Big Data using the power of data science and analytics Key Features A perfect companion to boost your Big Data storing processing analyzing skills to help you take informed business decisions Work with the best tools such as Apache Hadoop R Python and Spark for NoSQL platforms to perform massive online analyses Get expert tips on statistical inference machine learning mathematical modeling and data visualization for Big Data Book Description Big Data analytics relates to the strategies used by organizations to collect organize and analyze large amounts of data to uncover valuable business insights that otherwise cannot be analyzed through traditional systems Crafting an enterprise scale cost efficient Big Data and machine learning solution to uncover insights and value from your organization s data is a challenge Today with hundreds of new Big Data systems machine learning packages and BI Tools selecting the right combination of technologies is an even greater challenge This book will help you do that With the help of this guide you will be able to bridge the gap between the theoretical world of technology with the practical ground reality of building corporate Big Data and data

science platforms You will get hands on exposure to Hadoop and Spark build machine learning dashboards using R and R Shiny create web based apps using NoSQL databases such as MongoDB and even learn how to write R code for neural networks By the end of the book you will have a very clear and concrete understanding of what Big Data analytics means how it drives revenues for organizations and how you can develop your own Big Data analytics solution using different tools and methods articulated in this book What you will learn Get a 360 degree view into the world of Big Data data science and machine learning Broad range of technical and business Big Data analytics topics that caters to the interests of the technical experts as well as corporate IT executives Get hands on experience with industry standard Big Data and machine learning tools such as Hadoop Spark MongoDB KDB and R Create production grade machine learning BI Dashboards using R and R Shiny with step by step instructions Learn how to combine open source Big Data machine learning and BI Tools to create low cost business analytics applications Understand corporate strategies for successful Big Data and data science projects Go beyond general purpose analytics to develop cutting edge Big Data applications using emerging technologies Who this book is for The book is intended for existing and aspiring Big Data professionals who wish to become the go to person in their organization when it comes to Big Data architecture analytics and governance While no prior knowledge of Big Data or related technologies is assumed it will be helpful to have some programming experience

Data Science Foundations Tools and Techniques Michael Freeman,Joel Ross,2018-11-23 The Foundational Hands On Skills You Need to Dive into Data Science Freeman and Ross have created the definitive resource for new and aspiring data scientists to learn foundational programming skills From the foreword by Jared Lander series editor Using data science techniques you can transform raw data into actionable insights for domains ranging from urban planning to precision medicine Programming Skills for Data Science brings together all the foundational skills you need to get started even if you have no programming or data science experience Leading instructors Michael Freeman and Joel Ross guide you through installing and configuring the tools you need to solve professional level data science problems including the widely used R language and Git version control system They explain how to wrangle your data into a form where it can be easily used analyzed and visualized so others can see the patterns you ve uncovered Step by step you ll master powerful R programming techniques and troubleshooting skills for probing data in new ways and at larger scales Freeman and Ross teach through practical examples and exercises that can be combined into complete data science projects Everything s focused on real world application so you can quickly start analyzing your own data and getting answers you can act upon Learn to Install your complete data science environment including R and RStudio Manage projects efficiently from version tracking to documentation Host manage and collaborate on data science projects with GitHub Master R language fundamentals syntax programming concepts and data structures Load format explore and restructure data for successful analysis Interact with databases and web APIs Master key principles for visualizing data accurately and intuitively Produce engaging interactive visualizations with ggplot and other R packages

Transform analyses into sharable documents and sites with R Markdown Create interactive web data science applications with Shiny Collaborate smoothly as part of a data science team Register your book for convenient access to downloads updates and or corrections as they become available See inside book for details

Visual Data Storytelling with Tableau
Lindy Ryan,2018-04-20 Tell Insightful Actionable Business Stories with Tableau the World s Leading Data Visualization Tool Visual Data Storytelling with Tableau brings together knowledge context and hands on skills for telling powerful actionable data stories with Tableau This full color guide shows how to organize data and structure analysis with storytelling in mind embrace exploration and visual discovery and articulate findings with rich data carefully curated visualizations and skillfully crafted narrative You don t need any visualization experience Each chapter illuminates key aspects of design practice and data visualization and guides you step by step through applying them in Tableau Through realistic examples and classroom tested exercises Professor Lindy Ryan helps you use Tableau to analyze data visualize it and help people connect more intuitively and emotionally with it Whether you re an analyst executive student instructor or journalist you won t just master the tools you ll learn to craft data stories that make an immediate impact and inspire action Learn how to Craft more powerful stories by blending data science genre and visual design Ask the right questions upfront to plan data collection and analysis Build storyboards and choose charts based on your message and audience Direct audience attention to the points that matter most Showcase your data stories in high impact presentations Integrate Tableau storytelling throughout your business communication Explore case studies that show what to do and what not to do Discover visualization best practices tricks and hacks you can use with any tool Includes coverage up through Tableau 10

Data Analytics with Hadoop
Benjamin Bengfort,Jenny Kim,2016-06-01 Ready to use statistical and machine learning techniques across large data sets This practical guide shows you why the Hadoop ecosystem is perfect for the job Instead of deployment operations or software development usually associated with distributed computing you ll focus on particular analyses you can build the data warehousing techniques that Hadoop provides and higher order data workflows this framework can produce Data scientists and analysts will learn how to perform a wide range of techniques from writing MapReduce and Spark applications with Python to using advanced modeling and data management with Spark MLlib Hive and HBase You ll also learn about the analytical processes and data systems available to build and empower data products that can handle and actually require huge amounts of data Understand core concepts behind Hadoop and cluster computing Use design patterns and parallel analytical algorithms to create distributed data analysis jobs Learn about data management mining and warehousing in a distributed context using Apache Hive and HBase Use Sqoop and Apache Flume to ingest data from relational databases Program complex Hadoop and Spark applications with Apache Pig and Spark DataFrames Perform machine learning techniques such as classification clustering and collaborative filtering with Spark s MLlib

Big Data Analytics Ulrich Matter,2023-09-04 Successfully navigating the data driven economy presupposes a certain understanding of the technologies

and methods to gain insights from Big Data This book aims to help data science practitioners to successfully manage the transition to Big Data Building on familiar content from applied econometrics and business analytics this book introduces the reader to the basic concepts of Big Data Analytics The focus of the book is on how to productively apply econometric and machine learning techniques with large complex data sets as well as on all the steps involved before analysing the data data storage data import data preparation The book combines conceptual and theoretical material with the practical application of the concepts using R and SQL The reader will thus acquire the skills to analyse large data sets both locally and in the cloud Various code examples and tutorials focused on empirical economic and business research illustrate practical techniques to handle and analyse Big Data Key Features Includes many code examples in R and SQL with R SQL scripts freely provided online Extensive use of real datasets from empirical economic research and business analytics with data files freely provided online Leads students and practitioners to think critically about where the bottlenecks are in practical data analysis tasks with large data sets and how to address them The book is a valuable resource for data science practitioners graduate students and researchers who aim to gain insights from big data in the context of research questions in business economics and the social sciences *Shu ju ke xue yu da shu ju ji shu dao lun* 数据科学与大数据计算导论, 2018 R for Everyone Jared P. Lander, 2017-06-13 Statistical Computation for Programmers Scientists Quants Excel Users and Other Professionals Using the open source R language you can build powerful statistical models to answer many of your most challenging questions R has traditionally been difficult for non statisticians to learn and most R books assume far too much knowledge to be of help R for Everyone Second Edition is the solution Drawing on his unsurpassed experience teaching new users professional data scientist Jared P Lander has written the perfect tutorial for anyone new to statistical programming and modeling Organized to make learning easy and intuitive this guide focuses on the 20 percent of R functionality you ll need to accomplish 80 percent of modern data tasks Lander s self contained chapters start with the absolute basics offering extensive hands on practice and sample code You ll download and install R navigate and use the R environment master basic program control data import manipulation and visualization and walk through several essential tests Then building on this foundation you ll construct several complete models both linear and nonlinear and use some data mining techniques After all this you ll make your code reproducible with LaTeX RMarkdown and Shiny By the time you re done you won t just know how to write R programs you ll be ready to tackle the statistical problems you care about most Coverage includes Explore R RStudio and R packages Use R for math variable types vectors calling functions and more Exploit data structures including data frames matrices and lists Read many different types of data Create attractive intuitive statistical graphics Write user defined functions Control program flow with if ifelse and complex checks Improve program efficiency with group manipulations Combine and reshape multiple datasets Manipulate strings using R s facilities and regular expressions Create normal binomial and Poisson probability distributions Build linear generalized linear and nonlinear models Program basic statistics

mean standard deviation and t tests Train machine learning models Assess the quality of models and variable selection Prevent overfitting and perform variable selection using the Elastic Net and Bayesian methods Analyze univariate and multivariate time series data Group data via K means and hierarchical clustering Prepare reports slideshows and web pages with knitr Display interactive data with RMarkdown and htmlwidgets Implement dashboards with Shiny Build reusable R packages with devtools and Rcpp Register your product at informit.com register for convenient access to downloads updates and corrections as they become available

Advanced Analytics with Spark Sandy Ryza,Uri Laserson,Sean Owen,Josh Wills,2015-04-02 In this practical book four Cloudera data scientists present a set of self contained patterns for performing large scale data analysis with Spark The authors bring Spark statistical methods and real world data sets together to teach you how to approach analytics problems by example You ll start with an introduction to Spark and its ecosystem and then dive into patterns that apply common techniques classification collaborative filtering and anomaly detection among others to fields such as genomics security and finance If you have an entry level understanding of machine learning and statistics and you program in Java Python or Scala you ll find these patterns useful for working on your own data applications Patterns include Recommending music and the Audioscrobbler data set Predicting forest cover with decision trees Anomaly detection in network traffic with K means clustering Understanding Wikipedia with Latent Semantic Analysis Analyzing co occurrence networks with GraphX Geospatial and temporal data analysis on the New York City Taxi Trips data Estimating financial risk through Monte Carlo simulation Analyzing genomics data and the BDG project Analyzing neuroimaging data with PySpark and Thunder

Advanced Analytics with PySpark Akash Tandon,Sandy Ryza,Sean Owen,Uri Laserson,Josh Wills,2022-06-14 The amount of data being generated today is staggering and growing Apache Spark has emerged as the de facto tool to analyze big data and is now a critical part of the data science toolbox Updated for Spark 3.0 this practical guide brings together Spark statistical methods and real world datasets to teach you how to approach analytics problems using PySpark Spark s Python API and other best practices in Spark programming Data scientists Akash Tandon Sandy Ryza Uri Laserson Sean Owen and Josh Wills offer an introduction to the Spark ecosystem then dive into patterns that apply common techniques including classification clustering collaborative filtering and anomaly detection to fields such as genomics security and finance This updated edition also covers NLP and image processing If you have a basic understanding of machine learning and statistics and you program in Python this book will get you started with large scale data analysis Familiarize yourself with Spark s programming model and ecosystem Learn general approaches in data science Examine complete implementations that analyze large public datasets Discover which machine learning tools make sense for particular problems Explore code that can be adapted to many uses

Big Data Analytics with Apache Hadoop and Spark Renata Sloane,2025-04-25 Unlock the power of Big Data and dive deep into the world of Hadoop and Spark with this comprehensive guide Whether you re a beginner or an experienced data enthusiast this book provides you with all the tools

you need to understand implement and master big data analytics Explore the intricacies of Apache Hadoop and Apache Spark two of the most powerful frameworks in the industry and learn how to leverage them for real time data processing and analysis Inside you will discover An introduction to Hadoop and Spark their ecosystems and how they work together to handle vast datasets Step by step guidance on setting up Hadoop and Spark environments including real world examples and practical tips In depth coverage of key concepts such as MapReduce HDFS Spark RDDs and machine learning integration Best practices for working with real time data processing and scalable analytics solutions Insights on optimizing performance and troubleshooting common issues Whether you re looking to boost your career in data science explore the potential of big data analytics or develop high performance data pipelines this book is your go to resource Equip yourself with the knowledge to analyze massive datasets and derive meaningful insights using the Apache Hadoop and Spark frameworks Why This Book Is Different Clear practical instructions for hands on learning Real world examples to apply in your projects Focus on scalability real time processing and advanced analytics Perfect for anyone eager to break into the world of Big Data Start mastering Big Data with Hadoop and Spark today

Data Engineering with Apache Spark, Delta Lake, and Lakehouse Manoj Kukreja, Danil Zburivsky, 2021-10-22 Understand the complexities of modern day data engineering platforms and explore strategies to deal with them with the help of use case scenarios led by an industry expert in big data Key Features Become well versed with the core concepts of Apache Spark and Delta Lake for building data platforms Learn how to ingest process and analyze data that can be later used for training machine learning models Understand how to operationalize data models in production using curated data Book Description In the world of ever changing data and schemas it is important to build data pipelines that can auto adjust to changes This book will help you build scalable data platforms that managers data scientists and data analysts can rely on Starting with an introduction to data engineering along with its key concepts and architectures this book will show you how to use Microsoft Azure Cloud services effectively for data engineering You ll cover data lake design patterns and the different stages through which the data needs to flow in a typical data lake Once you ve explored the main features of Delta Lake to build data lakes with fast performance and governance in mind you ll advance to implementing the lambda architecture using Delta Lake Packed with practical examples and code snippets this book takes you through real world examples based on production scenarios faced by the author in his 10 years of experience working with big data Finally you ll cover data lake deployment strategies that play an important role in provisioning the cloud resources and deploying the data pipelines in a repeatable and continuous way By the end of this data engineering book you ll know how to effectively deal with ever changing data and create scalable data pipelines to streamline data science ML and artificial intelligence AI tasks What you will learn Discover the challenges you may face in the data engineering world Add ACID transactions to Apache Spark using Delta Lake Understand effective design strategies to build enterprise grade data lakes Explore architectural and design patterns for building efficient data ingestion

pipelinesOrchestrate a data pipeline for preprocessing data using Apache Spark and Delta Lake APIsAutomate deployment and monitoring of data pipelines in productionGet to grips with securing monitoring and managing data pipelines models efficientlyWho this book is for This book is for aspiring data engineers and data analysts who are new to the world of data engineering and are looking for a practical guide to building scalable data platforms If you already work with PySpark and want to use Delta Lake for data engineering you ll find this book useful Basic knowledge of Python Spark and SQL is expected

Scala and Spark for Big Data Analytics Md. Rezaul Karim,Sridhar Alla,2017-07-25 Harness the power of Scala to program Spark and analyze tonnes of data in the blink of an eye About This Book Learn Scala s sophisticated type system that combines Functional Programming and object oriented concepts Work on a wide array of applications from simple batch jobs to stream processing and machine learning Explore the most common as well as some complex use cases to perform large scale data analysis with Spark Who This Book Is For Anyone who wishes to learn how to perform data analysis by harnessing the power of Spark will find this book extremely useful No knowledge of Spark or Scala is assumed although prior programming experience especially with other JVM languages will be useful to pick up concepts quicker What You Will Learn Understand object oriented functional programming concepts of Scala In depth understanding of Scala collection APIs Work with RDD and DataFrame to learn Spark s core abstractions Analysing structured and unstructured data using SparkSQL and GraphX Scalable and fault tolerant streaming application development using Spark structured streaming Learn machine learning best practices for classification regression dimensionality reduction and recommendation system to build predictive models with widely used algorithms in Spark MLlib ML Build clustering models to cluster a vast amount of data Understand tuning debugging and monitoring Spark applications Deploy Spark applications on real clusters in Standalone Mesos and YARN In Detail Scala has been observing wide adoption over the past few years especially in the field of data science and analytics Spark built on Scala has gained a lot of recognition and is being used widely in productions Thus if you want to leverage the power of Scala and Spark to make sense of big data this book is for you The first part introduces you to Scala helping you understand the object oriented and functional programming concepts needed for Spark application development It then moves on to Spark to cover the basic abstractions using RDD and DataFrame This will help you develop scalable and fault tolerant streaming applications by analyzing structured and unstructured data using SparkSQL GraphX and Spark structured streaming Finally the book moves on to some advanced topics such as monitoring configuration debugging testing and deployment You will also learn how to develop Spark applications using SparkR and PySpark APIs interactive data analytics using Zeppelin and in memory data processing with Alluxio By the end of this book you will have a thorough understanding of Spark and you will be able to perform full stack data analytics with a feel that no amount of data is too big Style and approach Filled with practical examples and use cases this book will not only help you get up and running with Spark but will also take you farther down the road to becoming a data scientist

Big Data Analytics

Venkat Ankam,2016-09-28 A handy reference guide for data analysts and data scientists to help to obtain value from big data analytics using Spark on Hadoop clusters About This Book This book is based on the latest 2.0 version of Apache Spark and 2.7 version of Hadoop integrated with most commonly used tools Learn all Spark stack components including latest topics such as DataFrames DataSets GraphFrames Structured Streaming DataFrame based ML Pipelines and SparkR Integrations with frameworks such as HDFS YARN and tools such as Jupyter Zeppelin NiFi Mahout HBase Spark Connector GraphFrames H2O and Hivemall Who This Book Is For Though this book is primarily aimed at data analysts and data scientists it will also help architects programmers and practitioners Knowledge of either Spark or Hadoop would be beneficial It is assumed that you have basic programming background in Scala Python SQL or R programming with basic Linux experience Working experience within big data environments is not mandatory What You Will Learn Find out and implement the tools and techniques of big data analytics using Spark on Hadoop clusters with wide variety of tools used with Spark and Hadoop Understand all the Hadoop and Spark ecosystem components Get to know all the Spark components Spark Core Spark SQL DataFrames DataSets Conventional and Structured Streaming MLLib ML Pipelines and Graphx See batch and real time data analytics using Spark Core Spark SQL and Conventional and Structured Streaming Get to grips with data science and machine learning using MLLib ML Pipelines H2O Hivemall Graphx SparkR and Hivemall In Detail Big Data Analytics book aims at providing the fundamentals of Apache Spark and Hadoop All Spark components Spark Core Spark SQL DataFrames Data sets Conventional Streaming Structured Streaming MLLib Graphx and Hadoop core components HDFS MapReduce and Yarn are explored in greater depth with implementation examples on Spark Hadoop clusters It is moving away from MapReduce to Spark So advantages of Spark over MapReduce are explained at great depth to reap benefits of in memory speeds DataFrames API Data Sources API and new Data set API are explained for building Big Data analytical applications Real time data analytics using Spark Streaming with Apache Kafka and HBase is covered to help building streaming applications New Structured streaming concept is explained with an IOT Internet of Things use case Machine learning techniques are covered using MLLib ML Pipelines and SparkR and Graph Analytics are covered with GraphX and GraphFrames components of Spark Readers will also get an opportunity to get started with web based notebooks such as Jupyter Apache Zeppelin and data flow tool Apache NiFi to analyze and visualize data Style and approach This step by step pragmatic guide will make life easy no matter what your level of experience You will deep dive into Apache Spark on Hadoop clusters through ample exciting real life examples Practical tutorial explains data science in simple terms to help programmers and data analysts get started with Data Science

Learning PySpark Tomasz Drabas,Denny Lee,2017-02-27 Build data intensive applications locally and deploy at scale using the combined powers of Python and Spark 2.0 About This Book Learn why and how you can efficiently use Python to process data and build machine learning models in Apache Spark 2.0 Develop and deploy efficient scalable real time Spark solutions Take your understanding of using Spark with Python to

the next level with this jump start guide Who This Book Is For If you are a Python developer who wants to learn about the Apache Spark 2.0 ecosystem this book is for you A firm understanding of Python is expected to get the best out of the book Familiarity with Spark would be useful but is not mandatory What You Will Learn Learn about Apache Spark and the Spark 2.0 architecture Build and interact with Spark DataFrames using Spark SQL Learn how to solve graph and deep learning problems using GraphFrames and TensorFrames respectively Read transform and understand data and use it to train machine learning models Build machine learning models with MLlib and ML Learn how to submit your applications programmatically using spark submit Deploy locally built applications to a cluster In Detail Apache Spark is an open source framework for efficient cluster computing with a strong interface for data parallelism and fault tolerance This book will show you how to leverage the power of Python and put it to use in the Spark ecosystem You will start by getting a firm understanding of the Spark 2.0 architecture and how to set up a Python environment for Spark You will get familiar with the modules available in PySpark You will learn how to abstract data with RDDs and DataFrames and understand the streaming capabilities of PySpark Also you will get a thorough overview of machine learning capabilities of PySpark using ML and MLlib graph processing using GraphFrames and polyglot persistence using Blaze Finally you will learn how to deploy your applications to the cloud using the spark submit command By the end of this book you will have established a firm understanding of the Spark Python API and how it can be used to build data intensive applications Style and approach This book takes a very comprehensive step by step approach so you understand how the Spark ecosystem can be used with Python to develop efficient scalable solutions Every chapter is standalone and written in a very easy to understand manner with a focus on both the hows and the whys of each concept

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