Intro to Apache Spark

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Michael Seilmaier

Intro To Apache Spark:

Introduction to Apache Spark Paco Nathan,2015 With its ability to perform fast in memory cluster computing Apache Spark is emerging as a favorite technology for analytics on large datasets This video workshop from Paco Nathan host of the Just Enough Math workshop provides developers with an introduction to Spark and its core APIs By working with hands on technical exercises you ll get up to speed on how to use Spark for data exploration analysis and building big data applications in Python Java or Scala Resource description page   **A Hands-on Introduction to Big Data Analytics** Funmi Obembe,Ofer Engel,2024-02-23 This practical textbook offers a hands on introduction to big data analytics helping you to develop the skills required to hit the ground running as a data professional It complements theoretical foundations with an emphasis on the application of big data analytics illustrated by real life examples and datasets Containing comprehensive coverage of all the key topics in this area this book uses open source technologies and examples in Python and Apache Spark Learning features include Ethics by Design encourages you to consider data ethics at every stage Industry Insights facilitate a deeper understanding of the link between what you are studying and how it is applied in industry Datasets questions and exercises give you the opportunity to apply your learning Dr Funmi Obembe is the Head of Technology at the Faculty of Arts Science and Technology University of Northampton Dr Ofer Engel is a Data Scientist at the University of Groningen

Apache Spark 2 for Beginners Rajanarayanan Thottuvaikkatumana,2016 Spark is one of the most widely used large scale data processing engines and runs extremely fast It is a framework that has tools that are equally useful for application developers as well as data scientists This book starts with the fundamentals of Spark 2 and covers the core data processing framework and API installation and application development setup Then the Spark programming model is introduced through real world examples followed by Spark SQL programming with DataFrames An introduction to SparkR is covered next Later we cover the charting and plotting features of Python in conjunction with Spark data processing After that we take a look at Spark s stream processing machine learning and graph processing libraries The last chapter combines all the skills you learned from the preceding chapters to develop a real world Spark application By the end of this video you will be able to consolidate data processing stream processing machine learning and graph processing into one unified and highly interoperable framework with a uniform API using Scala or Python Resource description page   **Introduction to Apache Spark 2.0** Denny Lee,2017 This video series highlights what s new in Apache 2 0 and reviews its core concepts The course starts with a high level overview of Spark s components and then dives into Spark 2 0 s three main themes simplicity speed and intelligence The simplicity section describes how Spark 2 0 unifies the Spark APIs and Spark session and how Spark 2 0 simplifies machine learning via ML pipelines The speed section illustrates how Spark 2 0 improves Spark performance with the push toward whole stage code generation And the intelligence section provides a quick primer on Spark Streaming and an introduction to the concepts of Structured Streaming The course is designed for data scientists and data engineers with

some basic experience using machine learning tools such as Python scikit learn Resource description page **Apache Spark Quick Start Guide** Shrey Mehrotra,Akash Grade,2019-01-31 A practical guide for solving complex data processing challenges by applying the best optimizations techniques in Apache Spark Key FeaturesLearn about the core concepts and the latest developments in Apache SparkMaster writing efficient big data applications with Spark s built in modules for SQL Streaming Machine Learning and Graph analysisGet introduced to a variety of optimizations based on the actual experienceBook Description Apache Spark is a flexible framework that allows processing of batch and real time data Its unified engine has made it quite popular for big data use cases This book will help you to get started with Apache Spark 2 0 and write big data applications for a variety of use cases It will also introduce you to Apache Spark one of the most popular Big Data processing frameworks Although this book is intended to help you get started with Apache Spark but it also focuses on explaining the core concepts This practical guide provides a quick start to the Spark 2 0 architecture and its components It teaches you how to set up Spark on your local machine As we move ahead you will be introduced to resilient distributed datasets RDDs and DataFrame APIs and their corresponding transformations and actions Then we move on to the life cycle of a Spark application and learn about the techniques used to debug slow running applications You will also go through Spark s built in modules for SQL streaming machine learning and graph analysis Finally the book will lay out the best practices and optimization techniques that are key for writing efficient Spark applications By the end of this book you will have a sound fundamental understanding of the Apache Spark framework and you will be able to write and optimize Spark applications What you will learnLearn core concepts such as RDDs DataFrames transformations and moreSet up a Spark development environmentChoose the right APIs for your applicationsUnderstand Spark s architecture and the execution flow of a Spark applicationExplore built in modules for SQL streaming ML and graph analysisOptimize your Spark job for better performanceWho this book is for If you are a big data enthusiast and love processing huge amount of data this book is for you If you are data engineer and looking for the best optimization techniques for your Spark applications then you will find this book helpful This book also helps data scientists who want to implement their machine learning algorithms in Spark You need to have a basic understanding of any one of the programming languages such as Scala Python or Java Practical Weak Supervision Wee Hyong Tok,Amit Bahree,Senja Filipi,2021-09-30 Most data scientists and engineers today rely on quality labeled data to train machine learning models But building a training set manually is time consuming and expensive leaving many companies with unfinished ML projects There s a more practical approach In this book Wee Hyong Tok Amit Bahree and Senja Filipi show you how to create products using weakly supervised learning models You ll learn how to build natural language processing and computer vision projects using weakly labeled datasets from Snorkel a spin off from the Stanford AI Lab Because so many companies have pursued ML projects that never go beyond their labs this book also provides a guide on how to ship the deep learning models you build Get up to speed on the field of weak supervision including ways to use it as

part of the data science process Use Snorkel AI for weak supervision and data programming Get code examples for using Snorkel to label text and image datasets Use a weakly labeled dataset for text and image classification Learn practical considerations for using Snorkel with large datasets and using Spark clusters to scale labeling *Computer Performance Engineering and Stochastic Modelling* Mauro Iacono,Marco Scarpa,Enrico Barbierato,Salvatore Serrano,Davide Cerotti,Francesco Longo,2023-10-06 This book constitutes the refereed proceedings of the 19th European Workshop on Computer Performance Engineering EPEW 2023 and 27th International Conference on Analytical and Stochastic Modelling Techniques and Applications ASMTA 2023 held in Florence Italy in June 2023 The 26 papers presented in this volume were carefully reviewed and selected from 35 submissions The papers presented at the workshop reflect the diversity of modern performance engineering The sessions covered a wide range of topics including robustness analysis machine learning edge and cloud computing as well as more traditional topics on stochastic modelling techniques and tools **High Performance Computing** Michela Taufer,Bernd Mohr,Julian M. Kunkel,2016-10-05 This book constitutes revised selected papers from 7 workshops that were held in conjunction with the ISC High Performance 2016 conference in Frankfurt Germany in June 2016 The 45 papers presented in this volume were carefully reviewed and selected for inclusion in this book They stem from the following workshops Workshop on Exascale Multi Many Core Computing Systems E MuCoCoS Second International Workshop on Communication Architectures at Extreme Scale ExaComm HPC I O in the Data Center Workshop HPC IODC International Workshop on OpenPOWER for HPC IWOPH Workshop on the Application Performance on Intel Xeon Phi Being Prepared for KNL and Beyond IXPUG Workshop on Performance and Scalability of Storage Systems WOPSSS and International Workshop on Performance Portable Programming Models for Accelerators P3MA **Inventive Computation Technologies** S. Smys,Robert Bestak,Álvaro Rocha,2019-11-02 With the intriguing development of technologies in several industries along with the advent of ubiquitous computational resources there are now ample opportunities to develop innovative computational technologies in order to solve a wide range of issues concerning uncertainty imprecision and vagueness in various real life problems The challenge of blending modern computational techniques with traditional computing methods has inspired researchers and academics alike to focus on developing innovative computational techniques In the near future computational techniques may provide vital solutions by effectively using evolving technologies such as computer vision natural language processing deep learning machine learning scientific computing and computational vision A vast number of intelligent computational algorithms are emerging along with increasing computational power which has significantly expanded the potential for developing intelligent applications These proceedings of the International Conference on Inventive Computation Technologies ICICT 2019 cover innovative computing applications in the areas of data mining big data processing information management and security **Spark: The Definitive Guide** Bill Chambers,Matei Zaharia,2018-02-08 Learn how to use deploy and maintain Apache Spark with this comprehensive guide written by the

creators of the open source cluster computing framework With an emphasis on improvements and new features in Spark 2 0 authors Bill Chambers and Matei Zaharia break down Spark topics into distinct sections each with unique goals You ll explore the basic operations and common functions of Spark s structured APIs as well as Structured Streaming a new high level API for building end to end streaming applications Developers and system administrators will learn the fundamentals of monitoring tuning and debugging Spark and explore machine learning techniques and scenarios for employing MLlib Spark s scalable machine learning library Get a gentle overview of big data and Spark Learn about DataFrames SQL and Datasets Spark s core APIs through worked examples Dive into Spark s low level APIs RDDs and execution of SQL and DataFrames Understand how Spark runs on a cluster Debug monitor and tune Spark clusters and applications Learn the power of Structured Streaming Spark s stream processing engine Learn how you can apply MLlib to a variety of problems including classification or recommendation *Beginning Apache Spark 2* Hien Luu,2018-08-16 Develop applications for the big data landscape with Spark and Hadoop This book also explains the role of Spark in developing scalable machine learning and analytics applications with Cloud technologies Beginning Apache Spark 2 gives you an introduction to Apache Spark and shows you how to work with it Along the way you ll discover resilient distributed datasets RDDs use Spark SQL for structured data and learn stream processing and build real time applications with Spark Structured Streaming Furthermore you ll learn the fundamentals of Spark ML for machine learning and much more After you read this book you will have the fundamentals to become proficient in using Apache Spark and know when and how to apply it to your big data applications What You Will Learn Understand Spark unified data processing platform Howto run Spark in Spark Shell or Databricks Use and manipulate RDDs Deal with structured data using Spark SQL through its operations and advanced functions Build real time applications using Spark Structured Streaming Develop intelligent applications with the Spark Machine Learning library Who This Book Is For Programmers and developers active in big data Hadoop and Java but who are new to the Apache Spark platform

Spark in Action Marko Bonaci,Petar Zecevic,2016-11-03 Summary Spark in Action teaches you the theory and skills you need to effectively handle batch and streaming data using Spark Fully updated for Spark 2 0 Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About the Technology Big data systems distribute datasets across clusters of machines making it a challenge to efficiently query stream and interpret them Spark can help It is a processing system designed specifically for distributed data It provides easy to use interfaces along with the performance you need for production quality analytics and machine learning Spark 2 also adds improved programming APIs better performance and countless other upgrades About the Book Spark in Action teaches you the theory and skills you need to effectively handle batch and streaming data using Spark You ll get comfortable with the Spark CLI as you work through a few introductory examples Then you ll start programming Spark using its core APIs Along the way you ll work with structured data using Spark SQL process near real time streaming data apply machine learning algorithms and munge graph

data using Spark GraphX For a zero effort startup you can download the preconfigured virtual machine ready for you to try the book s code What s Inside Updated for Spark 2 0 Real life case studies Spark DevOps with Docker Examples in Scala and online in Java and Python About the Reader Written for experienced programmers with some background in big data or machine learning About the Authors Petar Ze evi and Marko Bona i are seasoned developers heavily involved in the Spark community Table of Contents PART 1 FIRST STEPS Introduction to Apache Spark Spark fundamentals Writing Spark applications The Spark API in depth PART 2 MEET THE SPARK FAMILY Sparkling queries with Spark SQL Ingesting data with Spark Streaming Getting smart with MLlib ML classification and clustering Connecting the dots with GraphX PART 3 SPARK OPS Running Spark Running on a Spark standalone cluster Running on YARN and Mesos PART 4 BRINGING IT TOGETHER Case study real time dashboard Deep learning on Spark with H2O *Gray Hat Hacking: The Ethical Hacker's Handbook, Sixth Edition* Allen Harper,Ryan Linn,Stephen Sims,Michael Baucom,Huascar Tejeda,Daniel Fernandez,Moses Frost,2022-03-11 Up to date strategies for thwarting the latest most insidious network attacks This fully updated industry standard security resource shows step by step how to fortify computer networks by learning and applying effective ethical hacking techniques Based on curricula developed by the authors at major security conferences and colleges the book features actionable planning and analysis methods as well as practical steps for identifying and combating both targeted and opportunistic attacks Gray Hat Hacking The Ethical Hacker s Handbook Sixth Edition clearly explains the enemy s devious weapons skills and tactics and offers field tested remedies case studies and testing labs You will get complete coverage of Internet of Things mobile and Cloud security along with penetration testing malware analysis and reverse engineering techniques State of the art malware ransomware and system exploits are thoroughly explained Fully revised content includes 7 new chapters covering the latest threats Includes proof of concept code stored on the GitHub repository Authors train attendees at major security conferences including RSA Black Hat Defcon and Besides Apache Spark in 24 Hours, Sams Teach Yourself Jeffrey Aven,2016-08-31 Apache Spark is a fast scalable and flexible open source distributed processing engine for big data systems and is one of the most active open source big data projects to date In just 24 lessons of one hour or less Sams Teach Yourself Apache Spark in 24 Hours helps you build practical Big Data solutions that leverage Spark s amazing speed scalability simplicity and versatility This book s straightforward step by step approach shows you how to deploy program optimize manage integrate and extend Spark now and for years to come You ll discover how to create powerful solutions encompassing cloud computing real time stream processing machine learning and more Every lesson builds on what you ve already learned giving you a rock solid foundation for real world success Whether you are a data analyst data engineer data scientist or data steward learning Spark will help you to advance your career or embark on a new career in the booming area of Big Data Learn how to Discover what Apache Spark does and how it fits into the Big Data landscape Deploy and run Spark locally or in the cloud Interact with Spark from the shell Make the most of the Spark Cluster

Architecture Develop Spark applications with Scala and functional Python Program with the Spark API including transformations and actions Apply practical data engineering analysis approaches designed for Spark Use Resilient Distributed Datasets RDDs for caching persistence and output Optimize Spark solution performance Use Spark with SQL via Spark SQL and with NoSQL via Cassandra Leverage cutting edge functional programming techniques Extend Spark with streaming R and Sparkling Water Start building Spark based machine learning and graph processing applications Explore advanced messaging technologies including Kafka Preview and prepare for Spark s next generation of innovations Instructions walk you through common questions issues and tasks Q and As Quizzes and Exercises build and test your knowledge Did You Know tips offer insider advice and shortcuts and Watch Out alerts help you avoid pitfalls By the time you re finished you ll be comfortable using Apache Spark to solve a wide spectrum of Big Data problems **Official Google Cloud Certified Associate Cloud Engineer Study Guide** Dan Sullivan,2019-04-16 The Only Official Google Cloud Study Guide The Official Google Cloud Certified Associate Cloud Engineer Study Guide provides everything you need to prepare for this important exam and master the skills necessary to land that coveted Google Cloud Engineering certification Beginning with a pre book assessment quiz to evaluate what you know before you begin each chapter features exam objectives and review questions plus the online learning environment includes additional complete practice tests Written by Dan Sullivan a popular and experienced online course author for machine learning big data and Cloud topics Official Google Cloud Certified Associate Cloud Engineer Study Guide is your ace in the hole for deploying and managing Google Cloud Services Select the right Google service from the various choices based on the application to be built Compute with Cloud VMs and managing VMs Plan and deploying storage Network and configure access and security Google Cloud Platform is a leading public cloud that provides its users to many of the same software hardware and networking infrastructure used to power Google services Businesses organizations and individuals can launch servers in minutes store petabytes of data and implement global virtual clouds with the Google Cloud Platform Certified Associate Cloud Engineers have demonstrated the knowledge and skills needed to deploy and operate infrastructure services and networks in the Google Cloud This exam guide is designed to help you understand the Google Cloud Platform in depth so that you can meet the needs of those operating resources in the Google Cloud *Introducing .NET for Apache Spark* Ed Elliott,2021-05-12 Get started using Apache Spark via C or F and the NET for Apache Spark bindings This book is an introduction to both Apache Spark and the NET bindings Readers new to Apache Spark will get up to speed quickly using Spark for data processing tasks performed against large and very large datasets You will learn how to combine your knowledge of NET with Apache Spark to bring massive computing power to bear by distributed processing of extremely large datasets across multiple servers This book covers how to get a local instance of Apache Spark running on your developer machine and shows you how to create your first NET program that uses the Microsoft NET bindings for Apache Spark Techniques shown in the book allow you to use Apache Spark to distribute your

data processing tasks over multiple compute nodes You will learn to process data using both batch mode and streaming mode so you can make the right choice depending on whether you are processing an existing dataset or are working against new records in micro batches as they arrive The goal of the book is leave you comfortable in bringing the power of Apache Spark to your favorite NET language What You Will Learn Install and configure Spark NET on Windows Linux and macOS Write Apache Spark programs in C and F using the NET bindings Access and invoke the Apache Spark APIs from NET with the same high performance as Python Scala and R Encapsulate functionality in user defined functions Transform and aggregate large datasets Execute SQL queries against files through Apache Hive Distribute processing of large datasets across multiple servers Create your own batch streaming and machine learning programs Who This Book Is For NET developers who want to perform big data processing without having to migrate to Python Scala or R and Apache Spark developers who want to run natively on NET and take advantage of the C and F ecosystems *Introduction to Spark SQL and DataFrames* ,2019 Learn about DataFrames a widely used data structure in Apache Spark Discover how to manipulate and analyze distributed data with the DataFrames API and SQL *AWS Certified Security Specialty All-in-One Exam Guide (Exam SCS-C01)* Tracy Pierce,Aravind Kodandaramaiah,Rafael Koike,Alex Rosa,2021-02-26 This self study resource offers complete coverage of every topic on the AWS Certified Security Specialty exam Take the AWS Certified Security Specialty exam with confidence using the detailed information contained in this effective self study resource Written by a team of AWS insiders the book shows how to develop deploy and maintain robust security protocols on Amazon Web Services AWS Certified Security Specialty All in One Exam Guide Exam SCS C01 covers every objective for the exam and provides comprehensive content on cloud based security To aid in study each chapter includes exam tips chapter summaries and practice questions that simulate those on the live test Designed to help you pass the exam with ease this hands on guide also serves as an ideal on the job reference Covers all exam topics including Cloud security event investigation Cloud security event remediation and planning Monitoring with Amazon CloudWatch Enhanced security monitoring and compliance with AWS services Logging on AWS AWS cryptographic services and tools Designing edge security on AWS Designing and implementing a secure network infrastructure Troubleshooting a secure network infrastructure Designing and implementing host based security AWS identity and access management Troubleshooting authorization and authentication services Online content includes 130 practice exam questions Fully customizable exam engine Downloadable code Python for Programmers Paul Deitel,Harvey Deitel,2019-03-15 The professional programmer s Deitel guide to Python with introductory artificial intelligence case studies Written for programmers with a background in another high level language Python for Programmers uses hands on instruction to teach today s most compelling leading edge computing technologies and programming in Python one of the world s most popular and fastest growing languages Please read the Table of Contents diagram inside the front cover and the Preface for more details In the context of 500 real world examples ranging from

individual snippets to 40 large scripts and full implementation case studies you ll use the interactive IPython interpreter with code in Jupyter Notebooks to quickly master the latest Python coding idioms After covering Python Chapters 1 5 and a few key parts of Chapters 6 7 you ll be able to handle significant portions of the hands on introductory AI case studies in Chapters 11 16 which are loaded with cool powerful contemporary examples These include natural language processing data mining Twitter for sentiment analysis cognitive computing with IBM WatsonTM supervised machine learning with classification and regression unsupervised machine learning with clustering computer vision through deep learning and convolutional neural networks deep learning with recurrent neural networks big data with Hadoop SparkTM and NoSQL databases the Internet of Things and more You ll also work directly or indirectly with cloud based services including Twitter Google TranslateTM IBM Watson Microsoft Azure OpenMapQuest PubNub and more Features 500 hands on real world live code examples from snippets to case studies IPython code in Jupyter Notebooks Library focused Uses Python Standard Library and data science libraries to accomplish significant tasks with minimal code Rich Python coverage Control statements functions strings files JSON serialization CSV exceptions Procedural functional style and object oriented programming Collections Lists tuples dictionaries sets NumPy arrays pandas Series DataFrames Static dynamic and interactive visualizations Data experiences with real world datasets and data sources Intro to Data Science sections AI basic stats simulation animation random variables data wrangling regression AI big data and cloud data science case studies NLP data mining Twitter IBM WatsonTM machine learning deep learning computer vision Hadoop SparkTM NoSQL IoT Open source libraries NumPy pandas Matplotlib Seaborn Folium SciPy NLTK TextBlob spaCy Textatistic Tweepy scikit learn Keras and more Accompanying code examples are available here http ptgmedia pearsoncmg com imprint_downloads informit bookreg 9780135224335 9780135224335_examples zip Register your product for convenient access to downloads updates and or corrections as they become available See inside book for more information **Big Data Processing with Apache Spark** Srini Penchikala,2018-03-13 Apache Spark is a popular open source big data processing framework that s built around speed ease of use and unified distributed computing architecture Not only it supports developing applications in different languages like Java Scala Python and R it s also hundred times faster in memory and ten times faster even when running on disk compared to traditional data processing frameworks Whether you are currently working on a big data project or interested in learning more about topics like machine learning streaming data processing and graph data analytics this book is for you You can learn about Apache Spark and develop Spark programs for various use cases in big data analytics using the code examples provided This book covers all the libraries in Spark ecosystem Spark Core Spark SQL Spark Streaming Spark ML and Spark GraphX

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