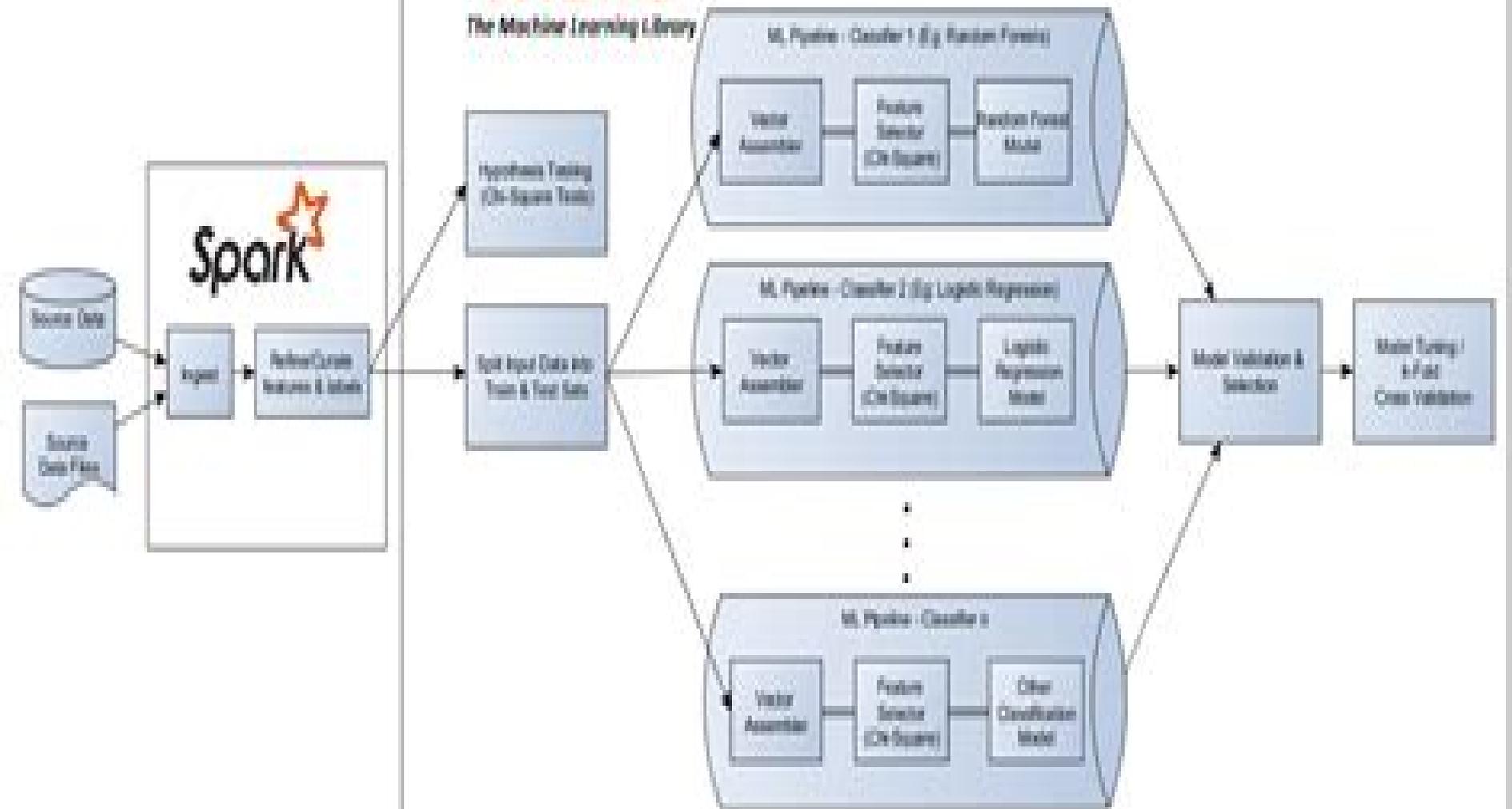


Spark MLlib

The Machine Learning Library



Apache Spark For Machine Learning Spark 301 And Data Science

P. Kaliraj, T. Devi



Apache Spark For Machine Learning Spark 301 And Data Science:

Big Data Applications in Industry 4.0 P. Kaliraj, T. Devi, 2022-02-09 Industry 4.0 is the latest technological innovation in manufacturing with the goal to increase productivity in a flexible and efficient manner. Changing the way in which manufacturers operate, this revolutionary transformation is powered by various technology advances including Big Data, analytics, Internet of Things (IoT), Artificial Intelligence (AI), and cloud computing. Big Data analytics has been identified as one of the significant components of Industry 4.0 as it provides valuable insights for smart factory management. Big Data and Industry 4.0 have the potential to reduce resource consumption and optimize processes, thereby playing a key role in achieving sustainable development. **Big Data Applications in Industry 4.0** covers the recent advancements that have emerged in the field of Big Data and its applications. The book introduces the concepts and advanced tools and technologies for representing and processing Big Data. It also covers applications of Big Data in such domains as financial services, education, healthcare, biomedical research, logistics, and warehouse management. Researchers, students, scientists, engineers, and statisticians can turn to this book to learn about concepts, technologies, and applications that solve real-world problems. **Features:** An introduction to data science and the types of data analytics methods accessible today; An overview of data integration, concepts, methodologies, and solutions; A general framework of forecasting principles and applications, as well as basic forecasting models including naive moving average and exponential smoothing models; A detailed roadmap of the Big Data evolution and its related technological transformation in computing, along with a brief description of related terminologies; The application of Industry 4.0 and Big Data in the field of education; The features, prospects, and significant role of Big Data in the banking industry, as well as various use cases of Big Data in banking, finance, services, and insurance; Implementing a Data Lake (DL) in the cloud and the significance of a data lake in decision making. **Intelligent Robots and Cobots** V. Ramasamy, S. Balamurugan, Sheng-Lung Peng, 2025-01-22 The book provides a comprehensive study of how new technological advances utilize robots and Cobots (collaborative robots) that work safely alongside humans to increase manufacturing efficiency. Industry 5.0 focuses on using collaborative robots or cobots, enabling users to design with greater freedom. This book is structured into 18 chapters and three sections: Fundamentals, Applications, and Challenges, reflecting the current and emerging market trends that shape industrial growth. Each chapter explores how businesses incorporating hardware and software like AI, cognitive computing, blockchain, IIoT, and more are capitalizing on these innovations to maintain a competitive edge. The research and development in the areas of technology has increased the cost effectiveness and acceptance of these IoT-enabled devices in many different industries. Various sectors including manufacturing, healthcare, transportation, and agriculture sectors have begun incorporating robots and cobots into their operations. They are aiming to increase their productivity, reduce the downtime of their equipment, and optimize resource utilization. The individual chapters examine the following subjects: Investigation on Deployment of Microservices for Swarm Intelligence of Collaborative Robots

Cobot Aided System for Hydroponically Grown Plants Low No Code Software Development of Cobots Using Advanced Graphical User Interface Role of Cobots Over Industrial Robots in Industry 5.0 Activities Cobot Collaboration in the Healthcare Industry Robotic Arm for Industry Automation Artificial Intelligence Driven Cobots for Innovative Industry 5.0 Workforce Comprehensive Analysis on Design Working and Manufacturing of Soft Robots Workforce for Industry 5.0 The Work of Future and the Future of Work Security Issues and Trends of Industrial Robots and Cobots Aviation Bots for Decongesting Airports Self Contained Study and Evolution of Cobots in Intelligent Transportation Systems Smart Architecture for Data Analytics in Collaborative Robots Contribution of Blockchain Technology for the Cobots Cybersecurity Issues Security Issues and Trends of Industrial Robots and Cobots Cloud Based Cobots for Industry 5.0 A Human Centric Solution Future Workforce for Industry 5.0 Audience The book's primary audience is researchers and post graduate students in robotics and cobots industrial engineers production and manufacturing engineers working on artificial intelligence and logistics

Cloud Computing for Science and Engineering Ian Foster, Dennis B. Gannon, 2017-09-29 A guide to cloud computing for students scientists and engineers with advice and many hands on examples The emergence of powerful always on cloud utilities has transformed how consumers interact with information technology enabling video streaming intelligent personal assistants and the sharing of content Businesses too have benefited from the cloud outsourcing much of their information technology to cloud services Science however has not fully exploited the advantages of the cloud Could scientific discovery be accelerated if mundane chores were automated and outsourced to the cloud Leading computer scientists Ian Foster and Dennis Gannon argue that it can and in this book offer a guide to cloud computing for students scientists and engineers with advice and many hands on examples The book surveys the technology that underpins the cloud new approaches to technical problems enabled by the cloud and the concepts required to integrate cloud services into scientific work It covers managing data in the cloud and how to program these services computing in the cloud from deploying single virtual machines or containers to supporting basic interactive science experiments to gathering clusters of machines to do data analytics using the cloud as a platform for automating analysis procedures machine learning and analyzing streaming data building your own cloud with open source software and cloud security The book is accompanied by a website Cloud4SciEng.org that provides a variety of supplementary material including exercises lecture slides and other resources helpful to readers and instructors

Essentials of Big Data Analytics Pallavi Chavan, Kalyani Pampattiwar, Ramchandra Mangrulkar, 2026-01-23 Essentials of Big Data Analytics Applications in R and Python is a comprehensive guide that demystifies the complex world of big data analytics blending theoretical concepts with hands on practices using the Python and R programming languages and MapReduce framework This book bridges the gap between theory and practical implementation providing clear and practical understanding of the key principles and techniques essential for harnessing the power of big data Essentials of Big Data Analytics is designed to provide a comprehensive resource for readers looking to

deepen their understanding of Big Data analytics particularly within a computer science engineering and data science context By bridging theoretical concepts with practical applications the book emphasizes hands on learning through exercises and tutorials specifically utilizing R and Python Given the growing role of Big Data in industry and scientific research this book serves as a timely resource to equip professionals with the skills needed to thrive in data driven environments Includes hands on Tutorials and Case Studies Structured exercises and real world examples reinforce learning and skill building Focuses on Python and R for Big Data Detailed lessons in Python and R programming cater to the increasing demand for data science expertise Balanced Theory and Practice Comprehensive coverage ensures a strong theoretical foundation paired with actionable insights for real world application *Learning Spark* Jules S. Damji, Brooke Wenig, Tathagata Das, Denny Lee, 2020-07-16 Data is bigger arrives faster and comes in a variety of formats and it all needs to be processed at scale for analytics or machine learning But how can you process such varied workloads efficiently Enter Apache Spark Updated to include Spark 3.0 this second edition shows data engineers and data scientists why structure and unification in Spark matters Specifically this book explains how to perform simple and complex data analytics and employ machine learning algorithms Through step by step walk throughs code snippets and notebooks you'll be able to Learn Python SQL Scala or Java high level Structured APIs Understand Spark operations and SQL Engine Inspect tune and debug Spark operations with Spark configurations and Spark UI Connect to data sources JSON Parquet CSV Avro ORC Hive S3 or Kafka Perform analytics on batch and streaming data using Structured Streaming Build reliable data pipelines with open source Delta Lake and Spark Develop machine learning pipelines with MLlib and productionize models using MLflow

Human-centered Data Analytics: Technology for Sustainable Development Suparna Dhar, Sanjay Goswami, Dinesh Kumar Unni Krishnan, Indranil Bose, Rameshwar Dubey, Chandan Mazumdar, Xi Chen, 2025-11-18 This book constitutes the refereed proceedings of the Third Analytics Global Conference on Human centered Data Analytics Technology for Sustainable Development AGC 2025 held in Kolkata India during March 8-9 2025 The 16 full papers presented in these proceedings were carefully reviewed and selected from 46 submissions The papers are organized in these topical sections Health and Well Being Social Well Being Financial Security **Big Data Analytics for Healthcare** Pantea Keikhosrokiani, 2022-05-19 Big Data Analytics and Medical Information Systems presents the valuable use of artificial intelligence and big data analytics in healthcare and medical sciences It focuses on theories methods and approaches in which data analytic techniques can be used to examine medical data to provide a meaningful pattern for classification diagnosis treatment and prediction of diseases The book discusses topics such as theories and concepts of the field and how big medical data mining techniques and applications can be applied to classification diagnosis treatment and prediction of diseases In addition it covers social behavioral and medical fake news analytics to prevent medical misinformation and myths It is a valuable resource for graduate students researchers and members of biomedical field who are interested in learning

more about analytic tools to support their work Presents theories methods and approaches in which data analytic techniques are used for medical data Brings practical information on how to use big data for classification diagnosis treatment and prediction of diseases Discusses social behavioral and medical fake news analytics for medical information systems

Learning Spark Jules S. Damji, Brooke Wenig, Tathagata Das, Denny Lee, 2020-07-16 Data is bigger arrives faster and comes in a variety of formats and it all needs to be processed at scale for analytics or machine learning But how can you process such varied workloads efficiently Enter Apache Spark Updated to include Spark 3.0 this second edition shows data engineers and data scientists why structure and unification in Spark matters Specifically this book explains how to perform simple and complex data analytics and employ machine learning algorithms Through step by step walk throughs code snippets and notebooks you ll be able to Learn Python SQL Scala or Java high level Structured APIs Understand Spark operations and SQL Engine Inspect tune and debug Spark operations with Spark configurations and Spark UI Connect to data sources JSON Parquet CSV Avro ORC Hive S3 or Kafka Perform analytics on batch and streaming data using Structured Streaming Build reliable data pipelines with open source Delta Lake and Spark Develop machine learning pipelines with MLlib and productionize models using MLflow

Apache Spark for Machine Learning Deepak Gowda, 2024-11-01 Develop your data science skills with Apache Spark to solve real world problems for Fortune 500 companies using scalable algorithms on large cloud computing clusters Key Features Apply techniques to analyze big data and uncover valuable insights for machine learning Learn to use cloud computing clusters for training machine learning models on large datasets Discover practical strategies to overcome challenges in model training deployment and optimization Purchase of the print or Kindle book includes a free PDF eBook Book Description In the world of big data efficiently processing and analyzing massive datasets for machine learning can be a daunting task Written by Deepak Gowda a data scientist with over a decade of experience and 30 patents this book provides a hands on guide to mastering Spark s capabilities for efficient data processing model building and optimization With Deepak s expertise across industries such as supply chain cybersecurity and data center infrastructure he makes complex concepts easy to follow through detailed recipes This book takes you through core machine learning concepts highlighting the advantages of Spark for big data analytics It covers practical data preprocessing techniques including feature extraction and transformation supervised learning methods with detailed chapters on regression and classification and unsupervised learning through clustering and recommendation systems You ll also learn to identify frequent patterns in data and discover effective strategies to deploy and optimize your machine learning models Each chapter features practical coding examples and real world applications to equip you with the knowledge and skills needed to tackle complex machine learning tasks By the end of this book you ll be ready to handle big data and create advanced machine learning models with Apache Spark What you will learn Master Apache Spark for efficient large scale data processing and analysis Understand core machine learning concepts and their applications with Spark Implement data

preprocessing techniques for feature extraction and transformation Explore supervised learning methods regression and classification algorithms Apply unsupervised learning for clustering tasks and recommendation systems Discover frequent pattern mining techniques to uncover data trends Who this book is for This book is ideal for data scientists ML engineers data engineers students and researchers who want to deepen their knowledge of Apache Spark s tools and algorithms It s a must have for those struggling to scale models for real world problems and a valuable resource for preparing for interviews at Fortune 500 companies focusing on large dataset analysis model training and deployment

Beginning Apache Spark 3 Hien Luu,2021 Take a journey toward discovering learning and using Apache Spark 3 0 In this book you will gain expertise on the powerful and efficient distributed data processing engine inside of Apache Spark its user friendly comprehensive and flexible programming model for processing data in batch and streaming and the scalable machine learning algorithms and practical utilities to build machine learning applications Beginning Apache Spark 3 begins by explaining different ways of interacting with Apache Spark such as Spark Concepts and Architecture and Spark Unified Stack Next it offers an overview of Spark SQL before moving on to its advanced features It covers tips and techniques for dealing with performance issues followed by an overview of the structured streaming processing engine It concludes with a demonstration of how to develop machine learning applications using Spark MLlib and how to manage the machine learning development lifecycle This book is packed with practical examples and code snippets to help you master concepts and features immediately after they are covered in each section After reading this book you will have the knowledge required to build your own big data pipelines applications and machine learning applications You will Master the Spark unified data analytics engine and its various components Work in tandem to provide a scalable fault tolerant and performant data processing engine Leverage the user friendly and flexible programming model to perform simple to complex data analytics using dataframe and Spark SQL Develop machine learning applications using Spark MLlib Manage the machine learning development lifecycle using MLflow

Machine Learning with Apache Spark Quick Start Guide Jillur Quddus,2018-12-26 Combine advanced analytics including Machine Learning Deep Learning Neural Networks and Natural Language Processing with modern scalable technologies including Apache Spark to derive actionable insights from Big Data in real time Key FeaturesMake a hands on start in the fields of Big Data Distributed Technologies and Machine LearningLearn how to design develop and interpret the results of common Machine Learning algorithmsUncover hidden patterns in your data in order to derive real actionable insights and business valueBook Description Every person and every organization in the world manages data whether they realize it or not Data is used to describe the world around us and can be used for almost any purpose from analyzing consumer habits to fighting disease and serious organized crime Ultimately we manage data in order to derive value from it and many organizations around the world have traditionally invested in technology to help process their data faster and more efficiently But we now live in an interconnected world driven by mass data creation and consumption where data is no longer rows and

columns restricted to a spreadsheet but an organic and evolving asset in its own right With this realization comes major challenges for organizations how do we manage the sheer size of data being created every second think not only spreadsheets and databases but also social media posts images videos music blogs and so on And once we can manage all of this data how do we derive real value from it The focus of Machine Learning with Apache Spark is to help us answer these questions in a hands on manner We introduce the latest scalable technologies to help us manage and process big data We then introduce advanced analytical algorithms applied to real world use cases in order to uncover patterns derive actionable insights and learn from this big data What you will learn Understand how Spark fits in the context of the big data ecosystem Understand how to deploy and configure a local development environment using Apache Spark Understand how to design supervised and unsupervised learning models Build models to perform NLP deep learning and cognitive services using Spark ML libraries Design real time machine learning pipelines in Apache Spark Become familiar with advanced techniques for processing a large volume of data by applying machine learning algorithms Who this book is for This book is aimed at Business Analysts Data Analysts and Data Scientists who wish to make a hands on start in order to take advantage of modern Big Data technologies combined with Advanced Analytics

Learning Spark Holden Karau, Andy Konwinski, Patrick Wendell, Matei Zaharia, 2015-01-28 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 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 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 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 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 sources including HDFS Hive JSON and S3 Master advanced topics like data partitioning and shared variables

[Apache Spark 2.x Machine Learning Cookbook](#) Siamak Amirghodsi, Meenakshi Rajendran, Broderick Hall, Shuen Mei, 2017 Simplify machine learning model implementations with Spark About This Book Solve the day to day problems of data science with Spark This unique cookbook consists of exciting and intuitive numerical recipes Optimize your work by acquiring cleaning analyzing predicting and visualizing your data Who This Book Is For This book is for Scala developers with a fairly good exposure to and understanding of machine learning techniques but lack practical implementations with Spark A solid knowledge of machine learning algorithms is assumed as well as hands on experience of implementing ML algorithms with Scala However you do not need to be acquainted with the Spark ML libraries

and ecosystem What You Will Learn Get to know how Scala and Spark go hand in hand for developers when developing ML systems with Spark Build a recommendation engine that scales with Spark Find out how to build unsupervised clustering systems to classify data in Spark Build machine learning systems with the Decision Tree and Ensemble models in Spark Deal with the curse of high dimensionality in big data using Spark Implement Text analytics for Search Engines in Spark Streaming Machine Learning System implementation using Spark In Detail Machine learning aims to extract knowledge from data relying on fundamental concepts in computer science statistics probability and optimization Learning about algorithms enables a wide range of applications from everyday tasks such as product recommendations and spam filtering to cutting edge applications such as self driving cars and personalized medicine You will gain hands on experience of applying these principles using Apache Spark a resilient cluster computing system well suited for large scale machine learning tasks This book begins with a quick overview of setting up the necessary IDEs to facilitate the execution of code examples that will be covered in various chapters It also highlights some key issues developers face while working with machine learning algorithms on the Spark platform We progress by uncovering the various Spark APIs and the implementation of ML algorithms with developing classification systems recommendation engines text analytics clustering and learning systems Toward the final chapters we ll focus on building high end applications and explain various unsupervised methodologies and challenges to tackle when implementing with big data ML systems Style and approach This book is packed with intu

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

Advanced Analytics with Spark Sandy Ryza,Uri Laserson,Sean Owen,Josh Wills,2017-06-12 In the second edition of 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 Updated for Spark 2 1 this edition acts as an introduction to these techniques and other best

practices in Spark programming You'll start with an introduction to Spark and its ecosystem and then dive into patterns that apply common techniques including classification clustering collaborative filtering and anomaly detection 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 the book's patterns useful for working on your own data applications With this book you will Familiarize yourself with the Spark programming model Become comfortable within the Spark ecosystem Learn general approaches in data science Examine complete implementations that analyze large public data sets Discover which machine learning tools make sense for particular problems Acquire code that can be adapted to many uses

Hands-On Deep Learning with Apache Spark Guglielmo Iozzia, 2019-01-31 Speed up the design and implementation of deep learning solutions using Apache Spark Key Features Explore the world of distributed deep learning with Apache Spark Train neural networks with deep learning libraries such as BigDL and TensorFlow Develop Spark deep learning applications to intelligently handle large and complex datasets Book Description Deep learning is a subset of machine learning where datasets with several layers of complexity can be processed Hands On Deep Learning with Apache Spark addresses the sheer complexity of technical and analytical parts and the speed at which deep learning solutions can be implemented on Apache Spark The book starts with the fundamentals of Apache Spark and deep learning You will set up Spark for deep learning learn principles of distributed modeling and understand different types of neural nets You will then implement deep learning models such as convolutional neural networks CNNs recurrent neural networks RNNs and long short term memory LSTM on Spark As you progress through the book you will gain hands on experience of what it takes to understand the complex datasets you are dealing with During the course of this book you will use popular deep learning frameworks such as TensorFlow Deeplearning4j and Keras to train your distributed models By the end of this book you'll have gained experience with the implementation of your models on a variety of use cases What you will learn Understand the basics of deep learning Set up Apache Spark for deep learning Understand the principles of distribution modeling and different types of neural networks Obtain an understanding of deep learning algorithms Discover textual analysis and deep learning with Spark Use popular deep learning frameworks such as Deeplearning4j TensorFlow and Keras Explore popular deep learning algorithms Who this book is for If you are a Scala developer data scientist or data analyst who wants to learn how to use Spark for implementing efficient deep learning models Hands On Deep Learning with Apache Spark is for you Knowledge of the core machine learning concepts and some exposure to Spark will be helpful

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

Apache Spark 2.x Machine Learning Cookbook
Siamak Amirghodsi, Meenakshi Rajendran, Broderick Hall, Shuen Mei, 2017-09-22 Simplify machine learning model implementations with Spark About This Book Solve the day to day problems of data science with Spark This unique cookbook consists of exciting and intuitive numerical recipes Optimize your work by acquiring cleaning analyzing predicting and visualizing your data Who This Book Is For This book is for Scala developers with a fairly good exposure to and understanding of machine learning techniques but lack practical implementations with Spark A solid knowledge of machine learning algorithms is assumed as well as hands on experience of implementing ML algorithms with Scala However you do not need to be acquainted with the Spark ML libraries and ecosystem What You Will Learn Get to know how Scala and Spark go hand in hand for developers when developing ML systems with Spark Build a recommendation engine that scales with Spark Find out how to build unsupervised clustering systems to classify data in Spark Build machine learning systems with the Decision Tree and Ensemble models in Spark Deal with the curse of high dimensionality in big data using Spark Implement Text analytics for Search Engines in Spark Streaming Machine Learning System implementation using Spark In Detail Machine learning aims to extract knowledge from data relying on fundamental concepts in computer science statistics probability and optimization Learning about algorithms enables a wide range of applications from everyday tasks such as product recommendations and spam filtering to cutting edge applications such as self driving cars and personalized medicine You will gain hands on experience of applying these principles using Apache Spark a resilient cluster computing system well suited for large scale machine learning tasks This book begins with a quick overview of setting up the necessary IDEs to facilitate the execution of code examples that will be covered in various chapters It also highlights some key issues developers face while working with machine learning algorithms on the Spark platform We progress by uncovering the various Spark APIs and the implementation of ML algorithms with developing classification systems recommendation engines text analytics clustering and learning systems Toward the final chapters we ll focus on building high end applications and explain various unsupervised methodologies and challenges to tackle when implementing with big data ML systems Style and approach This book is packed with intuitive recipes supported with line by line explanations to help you understand how to optimize your work flow and resolve problems when working with complex data modeling tasks and predictive algorithms

This is a valuable resource for data scientists and those working on large scale data projects

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

Apache Spark Machine Learning Blueprints Alex Liu, 2016-05-30 Develop a range of cutting edge machine learning projects with Apache Spark using this actionable guide About This Book Customize Apache Spark and R to fit your analytical needs in customer research fraud detection risk analytics and recommendation engine development Develop a set of practical Machine Learning applications that can be implemented in real life projects A comprehensive project based guide to improve and refine your predictive models for

practical implementation Who This Book Is For If you are a data scientist a data analyst or an R and SPSS user with a good understanding of machine learning concepts algorithms and techniques then this is the book for you Some basic understanding of Spark and its core elements and application is required What You Will Learn Set up Apache Spark for machine learning and discover its impressive processing power Combine Spark and R to unlock detailed business insights essential for decision making Build machine learning systems with Spark that can detect fraud and analyze financial risks Build predictive models focusing on customer scoring and service ranking Build a recommendation systems using SPSS on Apache Spark Tackle parallel computing and find out how it can support your machine learning projects Turn open data and communication data into actionable insights by making use of various forms of machine learning In Detail There s a reason why Apache Spark has become one of the most popular tools in Machine Learning its ability to handle huge datasets at an impressive speed means you can be much more responsive to the data at your disposal This book shows you Spark at its very best demonstrating how to connect it with R and unlock maximum value not only from the tool but also from your data Packed with a range of project blueprints that demonstrate some of the most interesting challenges that Spark can help you tackle you ll find out how to use Spark notebooks and access clean and join different datasets before putting your knowledge into practice with some real world projects in which you will see how Spark Machine Learning can help you with everything from fraud detection to analyzing customer attrition You ll also find out how to build a recommendation engine using Spark s parallel computing powers Style and approach This book offers a step by step approach to setting up Apache Spark and use other analytical tools with it to process Big Data and build machine learning projects The initial chapters focus more on the theory aspect of machine learning with Spark while each of the later chapters focuses on building standalone projects using Spark

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