

Spark

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.

Fanning the Spark Mary Ward Brown 2009-03-08 Fanning the Spark is the story of Mary Ward Brown's life as a writer--her upbringing in rural Alabama; the joys of college, marriage, and motherhood; the sorrows of becoming a widow; and a lifelong devotion to writing, writers, and literature, and the company of those who shared those loves, nurturing and feeding her interior life in the face of many challenges, losses, and obstacles, both emotional and material.

Spark of Life Erich Maria Remarque 2014-04-01 In *Spark of Life*, a powerful classic from the renowned author of *All Quiet on the Western Front*, one man's dream of freedom inspires a valiant resistance against the Nazi war machine. For ten years, 509 has been a political prisoner in a German concentration camp, persevering in the most hellish conditions. Deathly weak, he still has his wits about him and he senses that the end of the war is

near. If he and the other living corpses in his barracks can hold on for liberation—or force their own—then their suffering will not have been in vain. Now the SS who run the camp are ratcheting up the terror. But their expectations are jaded and their defenses are down. It is possible that the courageous yet terribly weak prisoners have just enough left in them to resist. And if they die fighting, they will die on their own terms, cheating the Nazis out of their devil’s contract. “The world has a great writer in Erich Maria Remarque. He is a craftsman of unquestionably first rank, a man who can bend language to his will. Whether he writes of men or of inanimate nature, his touch is sensitive, firm, and sure.”—The New York Times Book Review

Spark! Ken Chapman Ph.D 2017-10-19 For over thirty-six years, Ken Chapman has used the stories of Spark! to ignite the best in business and industry leaders and their teams. The selections of Spark! will inspire, entertain, and challenge each of us to lead by example. The collection of stories in Spark! reminds us of the truly important aspects of our lives and points us toward a more hopeful future. Share a selection from Spark! but also consider sharing some of your own life stories.

Your Spark Lisa Leonard 2019-10-01 We all have a light inside us that shines brightly and makes us who we are. Artists and athletes, dancers and dreamers, jokers and gymnasts ... I want to see you shine in your own unique way. Come along with me as we celebrate your spark. Did you know that God gave you your very own spark? It’s true! And no one else in the whole wide world has a spark like yours! Your spark makes your eyes twinkle and your mouth smile. It makes your feet stomp and your voice loud. It makes you excited and curious to learn new things. It lights you up from the inside, and it fills you with wonder and dreams. Your spark does all that and more. And author Lisa Leonard offers this picture book in celebration of you ... and your spark! Lisa pours her heart into this book, bringing Your Spark to life with inspiring text and free-spirited illustrations. More than anything, Lisa

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wants you and children everywhere to know: Inside your heart there is a spark. It shines bright and true, and it's what makes you, YOU! Your Spark: Is written by social media sensation and jewelry-maker Lisa Leonard Shines with the universal message of self-acceptance and is a celebration of what makes us all unique Inspires children to shine in their own unique way

Fast Data Processing with Spark 2 Krishna Sankar 2016-10-24
Learn how to use Spark to process big data at speed and scale for sharper analytics. Put the principles into practice for faster, slicker big data projects. About This Book A quick way to get started with Spark - and reap the rewards From analytics to engineering your big data architecture, we've got it covered Bring your Scala and Java knowledge - and put it to work on new and exciting problems Who This Book Is For This book is for developers with little to no knowledge of Spark, but with a background in Scala/Java programming. It's recommended that you have experience in dealing and working with big data and a strong interest in data science. What You Will Learn Install and set up Spark in your cluster Prototype distributed applications with Spark's interactive shell Perform data wrangling using the new DataFrame APIs Get to know the different ways to interact with Spark's distributed representation of data (RDDs) Query Spark with a SQL-like query syntax See how Spark works with big data Implement machine learning systems with highly scalable algorithms Use R, the popular statistical language, to work with Spark Apply interesting graph algorithms and graph processing with GraphX In Detail When people want a way to process big data at speed, Spark is invariably the solution. With its ease of development (in comparison to the relative complexity of Hadoop), it's unsurprising that it's becoming popular with data analysts and engineers everywhere. Beginning with the fundamentals, we'll show you how to get set up with Spark with minimum fuss. You'll then get to grips with some simple APIs before investigating machine learning and graph processing -

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throughout we'll make sure you know exactly how to apply your knowledge. You will also learn how to use the Spark shell, how to load data before finding out how to build and run your own Spark applications. Discover how to manipulate your RDD and get stuck into a range of DataFrame APIs. As if that's not enough, you'll also learn some useful Machine Learning algorithms with the help of Spark MLlib and integrating Spark with R. We'll also make sure you're confident and prepared for graph processing, as you learn more about the GraphX API. Style and approach This book is a basic, step-by-step tutorial that will help you take advantage of all that Spark has to offer.

Quest for the Spark Tom Sniegowski 2011 As the evil Nacht spreads his darkness across the valley, Tom and his friends, the Bone family, desperately try to find the Spark that will heal the Dreaming and save the world.

Alaska Spark LoLo Paige 2020-05-31 Can a chance encounter on a wildfire lead to true love under the midnight sun? Tara Waters loves being a wildland firefighter and the adrenaline rush of fighting wildfires is her calling. She must be on her game to join an elite hotshot crew in Montana. Troubled from a tragedy on a wildfire, Tara is reassigned to fight fire in Alaska, and her dream of being on a hotshot crew falls out of reach. Sexy Alaskan smokejumper, Ryan O'Connor takes Tara under his wing and counsels her when she fails to save someone on a wildfire. She owes him one, but not her heart just because of his irresistible charm and good looks. Ryan has his own story with plenty of demons in his past. And Tara may be the spark his life needs. But when a sinister rival sabotages Tara on the fire line, she discovers a threat far more dangerous than fire—a threat that can destroy everything she's worked for and her second chance for a love that could be extinguished before it ignites. Romance, sabotage, and fire...one explosive mix!

Spark Bug Rescue! Mary Tillworth 2017 At head of title: Nickelodeon, Blaze and the monster machines.

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Big Data Analytics with Spark Mohammed Guller 2015-12-29

Big Data Analytics with Spark is a step-by-step guide for learning Spark, which is an open-source fast and general-purpose cluster computing framework for large-scale data analysis. You will learn how to use Spark for different types of big data analytics projects, including batch, interactive, graph, and stream data analysis as well as machine learning. In addition, this book will help you become a much sought-after Spark expert. Spark is one of the hottest Big Data technologies. The amount of data generated today by devices, applications and users is exploding. Therefore, there is a critical need for tools that can analyze large-scale data and unlock value from it. Spark is a powerful technology that meets that need. You can, for example, use Spark to perform low latency computations through the use of efficient caching and iterative algorithms; leverage the features of its shell for easy and interactive Data analysis; employ its fast batch processing and low latency features to process your real time data streams and so on. As a result, adoption of Spark is rapidly growing and is replacing Hadoop MapReduce as the technology of choice for big data analytics. This book provides an introduction to Spark and related big-data technologies. It covers Spark core and its add-on libraries, including Spark SQL, Spark Streaming, GraphX, and MLlib. Big Data Analytics with Spark is therefore written for busy professionals who prefer learning a new technology from a consolidated source instead of spending countless hours on the Internet trying to pick bits and pieces from different sources. The book also provides a chapter on Scala, the hottest functional programming language, and the program that underlies Spark. You'll learn the basics of functional programming in Scala, so that you can write Spark applications in it. What's more, Big Data Analytics with Spark provides an introduction to other big data technologies that are commonly used along with Spark, like Hive, Avro, Kafka and so on. So the book is self-sufficient; all the technologies that you need to know to use Spark are covered. The

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only thing that you are expected to know is programming in any language. There is a critical shortage of people with big data expertise, so companies are willing to pay top dollar for people with skills in areas like Spark and Scala. So reading this book and absorbing its principles will provide a boost—possibly a big boost—to your career.

Between the Spark and the Burn April Genevieve Tucholke 2014 A sequel to *Between the Devil and the Deep Blue Sea* finds Violet and Neely searching for the nefarious River through a sequence of frenzied towns before Violet begins to question Neely's trustworthiness. Simultaneous eBook.

Spark Sarah Beth Durst 2019 Naturally quiet since birth, Mina and her stormbeast, Pixit, lead others like themselves in defying authority and attempting to spread the truth that Alorria's idyllic weather comes at a steep cost.

Spark Claudia Kalb 2021-04-27 Yo-Yo Ma's ear for music emerged not long after he learned to walk. By the age of seven, he was performing for President Kennedy; by fifteen he debuted at Carnegie Hall. Maya Angelou, by contrast, didn't write her iconic memoir, *I Know Why the Cage Bird Sings*, until she was 40. What propels some individuals to reach extraordinary creative heights in the earliest years of life while others discover their passions decades later? Are prodigies imbued with innate talent? How often are midlife inspirations triggered by propitious events, like Julia Child's first French meal at the age of 36? Do late bloomers reveal their talents because their skills require life experience and contemplation? Through engaging storytelling and intriguing historical and cutting-edge scientific research, best-selling author and acclaimed journalist Claudia Kalb explores these questions to uncover what makes a prodigy and what drives a late bloomer. In this series of linked biographies, Kalb follows the journeys of thirteen remarkable individuals--from Shirley Temple to Alexander Fleming to Eleanor Roosevelt to Bill Gates--to discover the secrets behind their talents. Each possessed a

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unique arc of inspiration. Each--through science, art, music, theater, and politics--reached extraordinary success at different stages of life. And each offers us a chance to explore the genesis--and experience--of genius.

Stream Processing with Apache Spark Gerard Maas 2019-06-05

Before you can build analytics tools to gain quick insights, you first need to know how to process data in real time. With this practical guide, developers familiar with Apache Spark will learn how to put this in-memory framework to use for streaming data. You'll discover how Spark enables you to write streaming jobs in almost the same way you write batch jobs. Authors Gerard Maas and François Garillot help you explore the theoretical underpinnings of Apache Spark. This comprehensive guide features two sections that compare and contrast the streaming APIs Spark now supports: the original Spark Streaming library and the newer Structured Streaming API. Learn fundamental stream processing concepts and examine different streaming architectures Explore Structured Streaming through practical examples; learn different aspects of stream processing in detail Create and operate streaming jobs and applications with Spark Streaming; integrate Spark Streaming with other Spark APIs Learn advanced Spark Streaming techniques, including approximation algorithms and machine learning algorithms Compare Apache Spark to other stream processing projects, including Apache Storm, Apache Flink, and Apache Kafka Streams

Spark: The Definitive Guide Bill Chambers 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

Spark GraphX in Action Michael Malak 2016-06-12 Summary

Spark GraphX in Action starts out with an overview of Apache Spark and the GraphX graph processing API. This example-based tutorial then teaches you how to configure GraphX and how to use it interactively. Along the way, you'll collect practical techniques for enhancing applications and applying machine learning algorithms to graph data. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology GraphX is a powerful graph processing API for the Apache Spark analytics engine that lets you draw insights from large datasets. GraphX gives you unprecedented speed and capacity for running massively parallel and machine learning algorithms. About the Book Spark GraphX in Action begins with the big picture of what graphs can be used for. This example-based tutorial teaches you how to use GraphX interactively. You'll start with a crystal-clear introduction to building big data graphs from regular data, and then explore the problems and possibilities of implementing graph algorithms and architecting graph processing pipelines. Along the way, you'll collect practical techniques for enhancing

applications and applying machine learning algorithms to graph data. What's Inside Understanding graph technology Using the GraphX API Developing algorithms for big graphs Machine learning with graphs Graph visualization About the Reader Readers should be comfortable writing code. Experience with Apache Spark and Scala is not required. About the Authors Michael Malak has worked on Spark applications for Fortune 500 companies since early 2013. Robin East has worked as a consultant to large organizations for over 15 years and is a data scientist at Worldpay. Table of Contents PART 1 SPARK AND GRAPHS Two important technologies: Spark and graphs GraphX quick start Some fundamentals PART 2 CONNECTING VERTICES GraphX Basics Built-in algorithms Other useful graph algorithms Machine learning PART 3 OVER THE ARC The missing algorithms Performance and monitoring Other languages and tools Learning Apache Spark 2 Muhammad Asif Abbasi 2017-03-28 Learn about the fastest-growing open source project in the world, and find out how it revolutionizes big data analytics About This Book Exclusive guide that covers how to get up and running with fast data processing using Apache Spark Explore and exploit various possibilities with Apache Spark using real-world use cases in this book Want to perform efficient data processing at real time? This book will be your one-stop solution. Who This Book Is For This guide appeals to big data engineers, analysts, architects, software engineers, even technical managers who need to perform efficient data processing on Hadoop at real time. Basic familiarity with Java or Scala will be helpful. The assumption is that readers will be from a mixed background, but would be typically people with background in engineering/data science with no prior Spark experience and want to understand how Spark can help them on their analytics journey. What You Will Learn Get an overview of big data analytics and its importance for organizations and data professionals Delve into Spark to see how it is different from existing processing platforms Understand the

intricacies of various file formats, and how to process them with Apache Spark. Realize how to deploy Spark with YARN, MESOS or a Stand-alone cluster manager. Learn the concepts of Spark SQL, SchemaRDD, Caching and working with Hive and Parquet file formats Understand the architecture of Spark MLLib while discussing some of the off-the-shelf algorithms that come with Spark. Introduce yourself to the deployment and usage of SparkR. Walk through the importance of Graph computation and the graph processing systems available in the market Check the real world example of Spark by building a recommendation engine with Spark using ALS. Use a Telco data set, to predict customer churn using Random Forests. In Detail Spark juggernaut keeps on rolling and getting more and more momentum each day. Spark provides key capabilities in the form of Spark SQL, Spark Streaming, Spark ML and Graph X all accessible via Java, Scala, Python and R. Deploying the key capabilities is crucial whether it is on a Standalone framework or as a part of existing Hadoop installation and configuring with Yarn and Mesos. The next part of the journey after installation is using key components, APIs, Clustering, machine learning APIs, data pipelines, parallel programming. It is important to understand why each framework component is key, how widely it is being used, its stability and pertinent use cases. Once we understand the individual components, we will take a couple of real life advanced analytics examples such as 'Building a Recommendation system', 'Predicting customer churn' and so on. The objective of these real life examples is to give the reader confidence of using Spark for real-world problems. Style and approach With the help of practical examples and real-world use cases, this guide will take you from scratch to building efficient data applications using Apache Spark. You will learn all about this excellent data processing engine in a step-by-step manner, taking one aspect of it at a time. This highly practical guide will include how to work with data pipelines, dataframes, clustering, SparkSQL, parallel

programming, and such insightful topics with the help of real-world use cases.

The Spark Cheryl Ale 2018-03-13 The Spark will help create a legacy dance students will never forget! The Spark: The Legacy that Changed the Dance World is about the journey of creative artists and dancers-turned-teachers who are now struggling with the complexities of teaching. Choosing a ballet program that juggles all styles, techniques, and methodologies and that all levels of students will progressively love is a daunting task. In this book, dance teachers will discover what the greatest masters have always known: the true essence of dancing. Quite simply, they will learn how to teach pure, fluid movement with an age-appropriate curriculum proven for the past 60 years to effectively transcend any limiting beliefs about the basis for all dance. If you're looking for an empowered learning community with the perfect balance of discipline, integrity, and a curriculum that forms lifetime bonds with students, teachers, and parents, you've come to the right place. Celebrate your "sparkdom"!

Apache Spark Graph Processing Rindra Ramamonjison

2015-09-10 Build, process and analyze large-scale graph data effectively with Spark About This Book Find solutions for every stage of data processing from loading and transforming graph data to Improve the scalability of your graphs with a variety of real-world applications with complete Scala code. A concise guide to processing large-scale networks with Apache Spark. Who This Book Is For This book is for data scientists and big data developers who want to learn the processing and analyzing graph datasets at scale. Basic programming experience with Scala is assumed. Basic knowledge of Spark is assumed. What You Will Learn Write, build and deploy Spark applications with the Scala Build Tool. Build and analyze large-scale network datasets Analyze and transform graphs using RDD and graph-specific operations Implement new custom graph operations tailored to specific needs. Develop iterative and efficient graph algorithms

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using message aggregation and Pregel abstraction Extract subgraphs and use it to discover common clusters Analyze graph data and solve various data science problems using real-world datasets. In Detail Apache Spark is the next standard of open-source cluster-computing engine for processing big data. Many practical computing problems concern large graphs, like the Web graph and various social networks. The scale of these graphs - in some cases billions of vertices, trillions of edges - poses challenges to their efficient processing. Apache Spark GraphX API combines the advantages of both data-parallel and graph-parallel systems by efficiently expressing graph computation within the Spark data-parallel framework. This book will teach the user to do graphical programming in Apache Spark, apart from an explanation of the entire process of graphical data analysis. You will journey through the creation of graphs, its uses, its exploration and analysis and finally will also cover the conversion of graph elements into graph structures. This book begins with an introduction of the Spark system, its libraries and the Scala Build Tool. Using a hands-on approach, this book will quickly teach you how to install and leverage Spark interactively on the command line and in a standalone Scala program. Then, it presents all the methods for building Spark graphs using illustrative network datasets. Next, it will walk you through the process of exploring, visualizing and analyzing different network characteristics. This book will also teach you how to transform raw datasets into a usable form. In addition, you will learn powerful operations that can be used to transform graph elements and graph structures. Furthermore, this book also teaches how to create custom graph operations that are tailored for specific needs with efficiency in mind. The later chapters of this book cover more advanced topics such as clustering graphs, implementing graph-parallel iterative algorithms and learning methods from graph data. Style and approach A step-by-step guide that will walk you through the key ideas and techniques for

processing big graph data at scale, with practical examples that will ensure an overall understanding of the concepts of Spark.

Ignite Your Spark Patricia Wooster 2017-01-10 Forge your own path, engage your passions, and light thousands of sparks to become the person you want to be with this interactive guide filled with quizzes and activities to help you along the way. It's no secret that your teen years can be tumultuous, confusing, and even sucky, but that doesn't mean you can't light a fire in your life. Covering topics from relationships, self-image, and school to goals, failures, and willpower, *Ignite Your Spark* features thought-provoking quizzes, "Ignite Your Life" activities, and profiles of kids and adults alike who have ignited their own spark to accomplish extraordinary things. Your teen years don't have to be a struggle, and with this handbook for self-discovery and personal fulfillment, you will find that the ability to ignite your own spark has been within you all along.

The Spark David Drake 2017-11-07 NEW STANDALONE NOVEL BY SF MASTER DAVID DRAKE. In a violent world in which civilization has fallen and monsters roam, a young hero will rise. In the time of the Ancients the universe was united—but that was so far in the past that not even memory remains, only the broken artifacts that a few Makers can reshape into their original uses. What survives is shattered into enclaves—some tiny, some ruined, some wild. Into the gaps between settlements, and onto the Road that connects all human reality and the reality that is not human and may never have been human, have crept monsters. Some creatures are men, twisted into inhuman evil; some of them are alien to Mankind— And there are things which are hostile to all life, things which will raven and kill until they are stopped. A Leader has arisen, welding the scattered human settlements together in peace and safety and smashing the enemies of order with an iron fist. In his capital, Dun Add, the Leader provides law and justice. In the universe beyond, his Champions advance—and enforce—the return of civilization. Pal, a youth from the sticks,

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has come to Dun Add to become a Champion. Pal is a bit of a Maker, and in his rural home he's been able to think of himself as a warrior because he can wield the weapons of the Ancient civilization. Pal has no idea of what he's really getting into in Dun Add. On the other hand, the Leader and Dun Add have no real idea of what might be inside this hayseed with high hopes. THE SPARK: A story of hope and violence and courage. And especially, a story of determination. About The Spark: ". . . entertaining tale combining the feel of Arthurian legend with nifty far-future super science . . ."—Publishers Weekly About David Drake: "Drake deftly weaves a web of political machinations and intrigue that vividly depicts the costs of war. Fans of Patrick O'Brian's Maturin and Aubrey novels will enjoy this intricate, rousing space opera." —Publishers Weekly "[R]ousing old-fashioned space opera."—Publishers Weekly "The fun is in the telling, and Mr. Drake has a strong voice. I want more!"—Philadelphia Weekly Press "[S]pace opera is alive and well. This series is getting better as the author goes along...character development combined with first-rate action and memorable world designs."—SFReader.com "[P]rose as cold and hard as the metal alloy of a tank...rivals Crane and Remarque..."—Chicago Sun-Times "Drake couldn't write a bad action scene at gunpoint."—Booklist

The Spark of Faith Fr. Wojciech Giertych 2018-06-28 Faith is essential to our spiritual growth yet, too often, good Catholics hold misconceptions about faith's meaning or role - misconceptions that can lead to spiritual stagnation. In these pages, Fr. Wojciech Giertych, OP, Theologian of the Papal Household, corrects prominent errors and clearly articulates what faith is, how it works, and how it may expand, or wither, within our soul. He explains that the initial moment - the spark - of faith which ignites our entire spiritual life comes first from God. Because faith is a divine gift that is alive, we can explore the laws of its development and learn the principles of its nourishment in order to fully live a life of faith that influences our intellectual and

moral life. Fr. Giertych’s moving and practical reflections on the spiritual life bring ancient wisdom to bear on our modern age, teaching what it really means to have and grow in faith. You’ll come to understand the proper relationship between faith and reason, and you’ll deepen your understanding of the role of prayer in the life of faith. The Spark of Faith will help you focus your attention on God as the fundamental source of all the spiritual goods we need and cherish. Fr. Giertych has served as the Theologian of the Papal Household for two popes. His is wisdom you can trust.

High Performance Spark Holden Karau 2017-05-25 Apache Spark is amazing when everything clicks. But if you haven’t seen the performance improvements you expected, or still don’t feel confident enough to use Spark in production, this practical book is for you. Authors Holden Karau and Rachel Warren demonstrate performance optimizations to help your Spark queries run faster and handle larger data sizes, while using fewer resources. Ideal for software engineers, data engineers, developers, and system administrators working with large-scale data applications, this book describes techniques that can reduce data infrastructure costs and developer hours. Not only will you gain a more comprehensive understanding of Spark, you’ll also learn how to make it sing. With this book, you’ll explore: How Spark SQL’s new interfaces improve performance over SQL’s RDD data structure The choice between data joins in Core Spark and Spark SQL Techniques for getting the most out of standard RDD transformations How to work around performance issues in Spark’s key/value pair paradigm Writing high-performance Spark code without Scala or the JVM How to test for functionality and performance when applying suggested improvements Using Spark MLlib and Spark ML machine learning libraries Spark’s Streaming components and external community packages

Building High Integrity Applications with SPARK John W.

McCormick 2015-08-31 This is the first introduction to the SPARK

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2014 language and the tools to verify programs for safety- and security-critical applications.

Spark from the Deep William J. Turkel 2013-09 How encounters with strongly electric fish informed our grasp of electricity. *Spark from the Deep* tells the story of how human beings came to understand and use electricity by studying the evolved mechanisms of strongly electric fish. These animals have the ability to shock potential prey or would-be predators with high-powered electrical discharges. William J. Turkel asks completely fresh questions about the evolutionary, environmental, and historical aspects of people’s interest in electric fish. Stimulated by painful encounters with electric catfish, torpedos, and electric eels, people learned to harness the power of electric shock for medical therapies and eventually developed technologies to store, transmit, and control electricity. Now we look to these fish as an inspiration for engineering new sensors, computer interfaces, autonomous undersea robots, and energy-efficient batteries.

Spark John J. Ratey 2008-01-10 Bestselling author and renowned psychiatrist Dr. Ratey presents a groundbreaking and fascinating investigation into the transformative effects of exercise on the brain.

Mastering Machine Learning with Spark 2.x Alex Tellez 2017-08-31 Unlock the complexities of machine learning algorithms in Spark to generate useful data insights through this data analysis tutorial About This Book Process and analyze big data in a distributed and scalable way Write sophisticated Spark pipelines that incorporate elaborate extraction Build and use regression models to predict flight delays Who This Book Is For Are you a developer with a background in machine learning and statistics who is feeling limited by the current slow and “small data” machine learning tools? Then this is the book for you! In this book, you will create scalable machine learning applications to power a modern data-driven business using Spark. We assume that you already know the machine learning concepts and

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algorithms and have Spark up and running (whether on a cluster or locally) and have a basic knowledge of the various libraries contained in Spark. What You Will Learn Use Spark streams to cluster tweets online Run the PageRank algorithm to compute user influence Perform complex manipulation of DataFrames using Spark Define Spark pipelines to compose individual data transformations Utilize generated models for off-line/on-line prediction Transfer the learning from an ensemble to a simpler Neural Network Understand basic graph properties and important graph operations Use GraphFrames, an extension of DataFrames to graphs, to study graphs using an elegant query language Use K-means algorithm to cluster movie reviews dataset In Detail The purpose of machine learning is to build systems that learn from data. Being able to understand trends and patterns in complex data is critical to success; it is one of the key strategies to unlock growth in the challenging contemporary marketplace today. With the meteoric rise of machine learning, developers are now keen on finding out how can they make their Spark applications smarter. This book gives you access to transform data into actionable knowledge. The book commences by defining machine learning primitives by the MLlib and H2O libraries. You will learn how to use Binary classification to detect the Higgs Boson particle in the huge amount of data produced by CERN particle collider and classify daily health activities using ensemble Methods for Multi-Class Classification. Next, you will solve a typical regression problem involving flight delay predictions and write sophisticated Spark pipelines. You will analyze Twitter data with help of the doc2vec algorithm and K-means clustering. Finally, you will build different pattern mining models using MLlib, perform complex manipulation of DataFrames using Spark and Spark SQL, and deploy your app in a Spark streaming environment. Style and approach This book takes a practical approach to help you get to grips with using Spark for analytics and to implement machine learning algorithms. We'll teach you

about advanced applications of machine learning through illustrative examples. These examples will equip you to harness the potential of machine learning, through Spark, in a variety of enterprise-grade systems.

Kindling the Spark Joanne Haroutounian 2002 In 'Rekindling the Spark', Haroutounian offers a concise synthesis of the research and resources on musical talent - what it is, how to identify and recognize it, and how to nurture and develop it. Exercises throughout the book offer parents and teachers activities to do with children that are useful in spotting and developing musical potential.

A Spark Unseen Sharon Cameron 2013-09-24 From a New York Times-bestselling author, a historical suspense featuring a young woman who flees to Paris seeking the man she loves and suspects is dead. When Katharine Tulman wakes in the middle of the night and accidentally foils a kidnapping attempt on her uncle, she realizes Stranwyne Keep is no longer safe for Uncle Tully and his genius inventions. She flees to Paris, where she hopes to remain undetected and also find the mysterious and handsome Lane, who is suspected to be dead. But the search for Lane is not easy, and Katharine soon finds herself embroiled in a labyrinth of political intrigue. And with unexpected enemies and allies at every turn, Katharine will have to figure out whom she can trust—if anyone—to protect her uncle from danger once and for all. Filled with deadly twists, whispering romance, and heart-stopping suspense, this sequel to the award winning *The Dark Unwinding* whisks readers off on another thrilling adventure.

Spark SQL 2.x Fundamentals and Cookbook HadoopExam Learning Resources 2018-09-02 Apache Spark is one of the fastest growing technology in BigData computing world. It support multiple programming languages like Java, Scala, Python and R. Hence, many existing and new framework started to integrate Spark platform as well in their platform e.g. Hadoop, Cassandra, EMR etc. While creating Spark certification material

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HadoopExam technical team found that there is no proper material and book is available for the Spark SQL (version 2.x) which covers the concepts as well as use of various features and found difficulty in creating the material. Therefore, they decided to create full length book for Spark SQL and outcome of that is this book. In this book technical team try to cover both fundamental concepts of Spark SQL engine and many exercises approx. 35+ so that most of the programming features can be covered. There are approximately 35 exercises and total 15 chapters which covers the programming aspects of SparkSQL. All the exercises given in this book are written using Scala. However, concepts remain same even if you are using different programming language.

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. [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

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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 How to 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.

Learning Spark Jules S. Damji 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

The Divine Spark Graham Hancock 2015-04-06 'I suspect the real breakthroughs in our understanding of consciousness are going to come from an entirely different direction. That direction, controversially, has to do with psychedelics - which, as many of the contributors to The Divine Spark argue, offer spectacular

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potential for the investigation of the "hard problem" of consciousness.' - Graham Hancock, from the Introduction. In *The Divine Spark*, bestselling author Graham Hancock brings us a groundbreaking collection of the latest thinking on consciousness and psychedelics. Graham has been writing and speaking about this to audiences worldwide, including a controversial TedX talk on ayahuasca and DMT, which received over 130,000 views on YouTube. Combining the wisdom of leading minds, *The Divine Spark* illuminates the topic like never before, with a particular focus on the use of psychedelics to open up the realm of the supernatural. The book unveils fresh theories on the relation of psychedelics to domains such as creativity, the survival of life on planet earth, interspecies communication, medicine and drug research, and many more. Contributors include: Mike Alvernia, Russell Brand, David Jay Brown, Paul Devereux, Rick Doblin, Amanda Fielding, Nassim Hamein, Martina Hoffman, Don Lattin, Eduardo Luna, Dennis McKenna, Thad McKraken, Rak Razam, Gabriel Roberts, Thomas B. Roberts, Robert Schoch, Mark Seelig, Rick Strassman and Robert Tindall.

Bathe the Cat Alice B. McGinty 2022-02-08 Bathe the floor? Sweep the dishes? This riotous romp of a picture book follows a frantic family as they try to get some chores done—with no help from the family cat, who keeps scrambling the list of chores with hilarious effects. Get ready for a rollicking read-aloud with a truly purrfect ending. It's cleaning day, but the family cat will do anything to avoid getting a bath. So instead of mopping the floor or feeding the fish, the family is soon busy rocking the rug, vacuuming the lawn, and sweeping the dishes. Bouncy rhyme carries the story headlong into the growing hilarity, until finally Dad restores some kind of order—but will the cat avoid getting his whiskers wet? HILARIOUS READ-ALoud: Word scrambles are a delight in this silly rhyming picture book! Kids will love the accessible rhyming text, and emerging readers will be able to anticipate words after repeated reads, making for an engaging

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and interactive read-aloud experience. **CATNIP FOR CAT LOVERS:** This sweet and sneaky feline will do anything to get out of having a bath! Ample cat antics and scenes of increasing mischief (and increasing chaos!) will tickle young readers and entice parents—particularly those with a furry feline member of their own households. **TWO DADS LEAD THE WAY:** Dad and Papa are the heads of this large and loving biracial family, mirroring illustrator David Robert's own orientation and providing picture book readers with a positive depiction of LGBTQ+ characters in a fun and funny family story. **WINNING AUTHOR-ILLUSTRATOR TEAM:** Alice McGinty is a prolific author of books for children, and David Roberts is well-known for his work on the popular Questioners series. Together, their upbeat text and energetic art with pops of neon color make for a standout picture book, just right for gifting and enjoying together at storytime. Perfect for: • Parents • Gift-givers • Cat lovers

Spark Timothy J. Jorgensen 2021-11-23 A fresh look at electricity and its powerful role in life on Earth When we think of electricity, we likely imagine the energy humming inside our home appliances or lighting up our electronic devices—or perhaps we envision the lightning-streaked clouds of a stormy sky. But electricity is more than an external source of power, heat, or illumination. Life at its essence is nothing if not electrical. The story of how we came to understand electricity's essential role in all life is rooted in our observations of its influences on the body—influences governed by the body's central nervous system. Spark explains the science of electricity from this fresh, biological perspective. Through vivid tales of scientists and individuals—from Benjamin Franklin to Elon Musk—Timothy Jorgensen shows how our views of electricity and the nervous system evolved in tandem, and how progress in one area enabled advancements in the other. He explains how these developments have allowed us to understand—and replicate—the ways electricity enables the body's essential functions of sight, hearing,

touch, and movement itself. Throughout, Jorgensen examines our fascination with electricity and how it can help or harm us. He explores a broad range of topics and events, including the Nobel Prize-winning discoveries of the electron and neuron, the history of experimentation involving electricity's effects on the body, and recent breakthroughs in the use of electricity to treat disease. Filled with gripping adventures in scientific exploration, *Spark* offers an indispensable look at electricity, how it works, and how it animates our lives from within and without.

Spark John 2010-04-13 The playing field for businesses is always changing. But one principle remains constant: individuals and companies that innovate will excel. In this groundbreaking guide, entrepreneur John Winsor presents 16 unique perspectives from trail-blazing innovators in companies of all sizes — creative directors, CEOs, brand managers, product developers, and others. Readers will learn how these stellar innovators built powerful brands and created the right environments to foster high levels of creativity. Following each interview, readers will discover a set of tools and recommendations to help them implement the innovator's ideas, including exercises, questions, and space to draw or write their thoughts. Throughout, Winsor weaves his essential premise: it takes more than one brilliant mind to allow innovation to occur. By the end, readers will understand why a true innovator is someone who makes connections with others and realizes the rewards.

Spark Frank Koller 2010-02-23 While factories across the Midwest shutter their doors, Cleveland-based manufacturer Lincoln Electric has thrived for more than a century. In addition to being profitable and technologically innovative, through good times and bad, the company has fulfilled its unique promise of “guaranteed continuous employment.” Workers are viewed as assets—not liabilities. Through flexible hours and job assignments, as well as a merit-based bonus system, Lincoln Electric's employment policies have proven healthy for the

company's bottom line its employees and its shareholders. In Spark, veteran journalist Frank Koller tells the story of how this unusual and profitable Fortune 1000 multinational company challenges the conventional wisdom shaping modern management's view of the workplace. Through insightful storytelling and extensive interviews with executives, workers, and leading business thinkers, Koller uses the Lincoln Electric example to illustrate how job security can inspire powerful growth and prosperity in our communities.

Learning Spark Holden Karau 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

Muriel Spark David Herman 2010-06 "A substantial addition to Spark criticism, of which there has been surprisingly little published in recent years."--Aileen Christianson, University of Edinburgh --Book Jacket

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