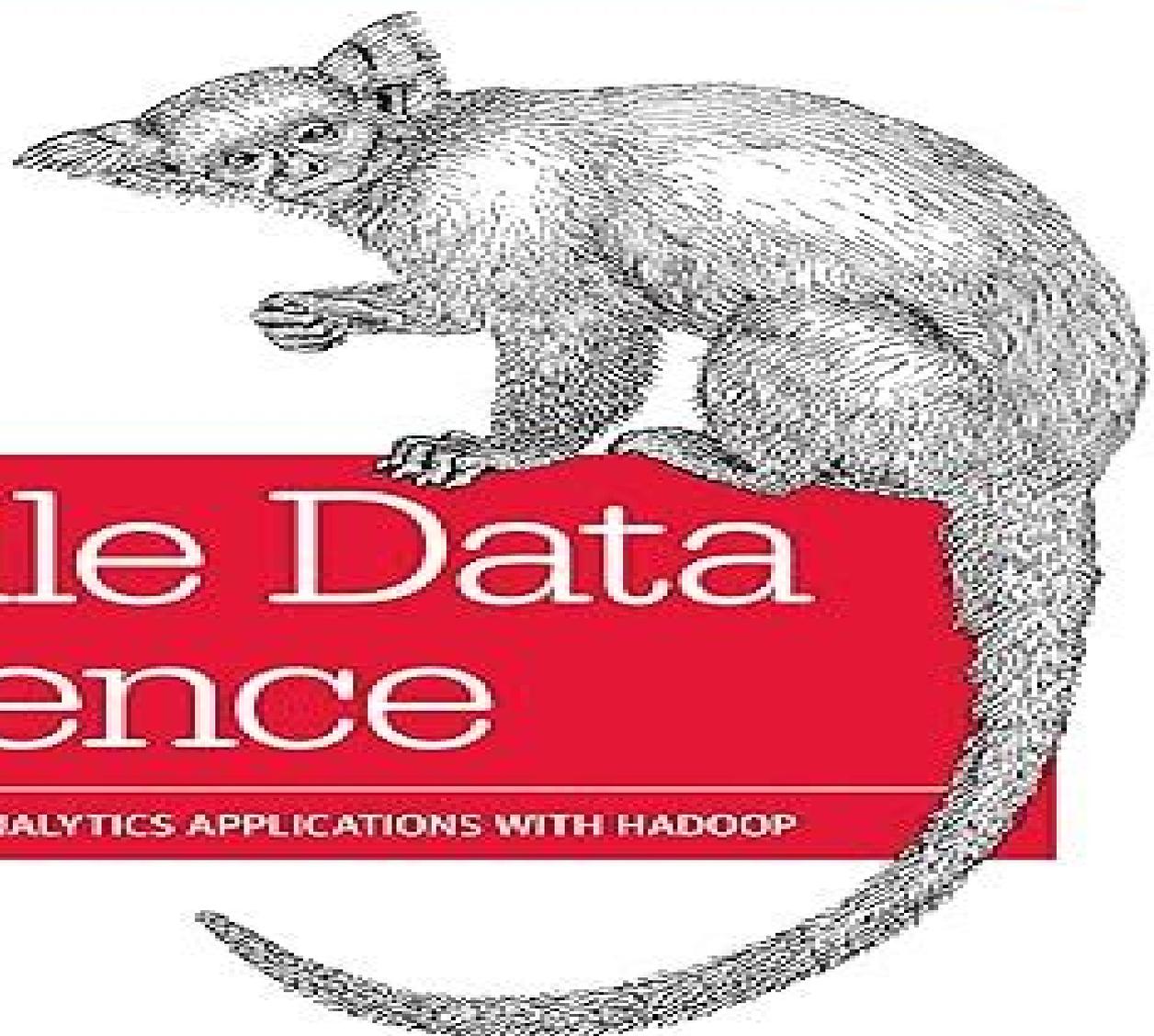# Agile Data Science

BUILDING DATA ANALYTICS APPLICATIONS WITH HADOOP

Russell Jurney

Agile Data Science Building Data Analytics Applications With Hadoop

David South, Writer

Agile Data Science Building Data Analytics Applications With Hadoop:

Agile Data Science Russell Jurney,2013-10-15 Mining big data requires a deep investment in people and time How can you be sure you re building the right models With this hands on book you ll learn a flexible toolset and methodology for building effective analytics applications with Hadoop Using lightweight tools such as Python Apache Pig and the D3 js library your team will create an agile environment for exploring data starting with an example application to mine your own email inboxes You ll learn an iterative approach that enables you to quickly change the kind of analysis you re doing depending on what the data is telling you All example code in this book is available as working Heroku apps Create analytics applications by using the agile big data development methodology Build value from your data in a series of agile sprints using the data value stack Gain insight by using several data structures to extract multiple features from a single dataset Visualize data with charts and expose different aspects through interactive reports Use historical data to predict the future and translate predictions into action Get feedback from users after each sprint to keep your project on track **Agile Data Science 2.0** Russell Jurney,2017 Data science teams looking to turn research into useful analytics applications require not only the right tools but also the right approach if they re to succeed With the revised second edition of this hands on guide up and coming data scientists will learn how to use the Agile Data Science development methodology to build data applications with Python Apache Spark Kafka and other tools Author Russell Jurney demonstrates how to compose a data platform for building deploying and refining analytics applications with Apache Kafka MongoDB ElasticSearch d3 js scikit learn and Apache Airflow You ll learn an iterative approach that lets you quickly change the kind of analysis you re doing depending on what the data is telling you Publish data science work as a web application and affect meaningful change in your organization Build value from your data in a series of agile sprints using the data value pyramid Extract features for statistical models from a single dataset Visualize data with charts and expose different aspects through interactive reports Use historical data to predict the future via classification and regression Translate predictions into actions Get feedback from users after each sprint to keep your project on track **Agile Data Science 2.0** Russell Jurney,2017-06-07 Data science teams looking to turn research into useful analytics applications require not only the right tools but also the right approach if they re to succeed With the revised second edition of this hands on guide up and coming data scientists will learn how to use the Agile Data Science development methodology to build data applications with Python Apache Spark Kafka and other tools Author Russell Jurney demonstrates how to compose a data platform for building deploying and refining analytics applications with Apache Kafka MongoDB ElasticSearch d3 js scikit learn and Apache Airflow You ll learn an iterative approach that lets you quickly change the kind of analysis you re doing depending on what the data is telling you Publish data science work as a web application and affect meaningful change in your organization Build value from your data in a series of agile sprints using the data value pyramid Extract features for statistical models from a single dataset Visualize data with charts and

expose different aspects through interactive reports Use historical data to predict the future via classification and regression Translate predictions into actions Get feedback from users after each sprint to keep your project on track   **Agile Data Science 2.0** Russell Jurney,2017-06-07 Data science teams looking to turn research into useful analytics applications require not only the right tools but also the right approach if they re to succeed With the revised second edition of this hands on guide up and coming data scientists will learn how to use the Agile Data Science development methodology to build data applications with Python Apache Spark Kafka and other tools Author Russell Jurney demonstrates how to compose a data platform for building deploying and refining analytics applications with Apache Kafka MongoDB ElasticSearch d3 js scikit learn and Apache Airflow You ll learn an iterative approach that lets you quickly change the kind of analysis you re doing depending on what the data is telling you Publish data science work as a web application and affect meaningful change in your organization Build value from your data in a series of agile sprints using the data value pyramid Extract features for statistical models from a single dataset Visualize data with charts and expose different aspects through interactive reports Use historical data to predict the future via classification and regression Translate predictions into actions Get feedback from users after each sprint to keep your project on track   Encyclopedia of Data Science and Machine Learning Wang, John,2023-01-20 Big data and machine learning are driving the Fourth Industrial Revolution With the age of big data upon us we risk drowning in a flood of digital data Big data has now become a critical part of both the business world and daily life as the synthesis and synergy of machine learning and big data has enormous potential Big data and machine learning are projected to not only maximize citizen wealth but also promote societal health As big data continues to evolve and the demand for professionals in the field increases access to the most current information about the concepts issues trends and technologies in this interdisciplinary area is needed The Encyclopedia of Data Science and Machine Learning examines current state of the art research in the areas of data science machine learning data mining and more It provides an international forum for experts within these fields to advance the knowledge and practice in all facets of big data and machine learning emphasizing emerging theories principals models processes and applications to inspire and circulate innovative findings into research business and communities Covering topics such as benefit management recommendation system analysis and global software development this expansive reference provides a dynamic resource for data scientists data analysts computer scientists technical managers corporate executives students and educators of higher education government officials researchers and academicians   *Innovations in Digital Research Methods* Peter Halfpenny,Rob Procter,2015-05-18 Vast amounts of digital data are now generated daily by people as they go about their lives yet social researchers are struggling to exploit it At the same time the challenges faced by society in the 21st century are growing ever more complex and demands research that is bigger in scale more collaborative and multi disciplinary than ever before This cutting edge volume provides an accessible introduction to innovative digital social research tools and methods that harness

this data deluge and successfully tackle key research challenges Contributions from leading international researchers cover topics such as Qualitative quantitative and mixed methods research Data management Social media and social network analysis Modeling and simulation Survey methods Visualizing social data Ethics and e research The future of social research in the digital age This vibrant introduction to innovative digital research methods is essential reading for anyone conducting social research today **Leading by Weak Signals** Peter Gomez,Mark Lambertz,2023-10-04 Master complex problems and face radical uncertainty by unleashing the power of small data Is your business using data to its optimum potential In complicated well structured problem situations executives rely on Big Data However when faced with complexity and uncertainty they are challenged to skillfully handle Small Data Leading by Weak Signals argues that impending dangers new business opportunities or innovative ideas may be missed when data are classified as simply not big enough This insightful book with its new approach initiates a radical shift in perspective from running the business to changing the business While Big Data are very well suited to run a business efficiently Small Data lay open phenomena which are connected to transforming a company like inflection points scale changes or critical transitions The authors present practical business examples and an 8 step framework to implement their ideas in teams and on the individual level This offers reflective practitioners a guideline for leveraging the enormous potential of weak signals for effective strategy development and operational execution in times of uncertainty and gives them the competitive edge they need to succeed *Complex, Intelligent, and Software Intensive Systems* Leonard Barolli,Nadeem Javaid,Makoto Ikeda,Makoto Takizawa,2018-06-18 This book provides a platform of scientific interaction between the three challenging and closely linked areas of ICT enabled application research and development software intensive systems complex systems and intelligent systems Software intensive systems strongly interact with other systems sensors actuators devices other software systems and users More and more domains are using software intensive systems e g automotive and telecommunication systems embedded systems in general industrial automation systems and business applications Moreover web services offer a new platform for enabling software intensive systems Complex systems research is focused on the overall understanding of systems rather than their components Complex systems are characterized by the changing environments in which they interact They evolve and adapt through internal and external dynamic interactions The development of intelligent systems and agents which are increasingly characterized by their use of ontologies and their logical foundations offer impulses for both software intensive systems and complex systems Recent research in the field of intelligent systems robotics neuroscience artificial intelligence and cognitive sciences are vital for the future development and innovation of software intensive and complex systems **Development Challenges, South-South Solutions: June 2014 Issue** David South, Writer,2014-06-05 Development Challenges South South Solutions is the monthly e newsletter of the United Nations Office for South South Cooperation in UNDP www southerninnovator org It has been published every month since 2006 Its sister publication Southern Innovator magazine has

been published since 2011 ISSN 2227 3905 Stories by David South UN Office for South South Cooperation Contact the Office to receive a copy of the new global magazine Southern Innovator Issues 1 2 3 4 and 5 are out now and are about innovators in mobile phones and information technology youth and entrepreneurship agribusiness and food security cities and urbanization and waste and recycling Why not consider sponsoring or advertising in an issue of Southern Innovator Or work with us on an insert or supplement of interest to our readers Follow SouthSouth1 In this issue Caribbean Island St Kitts Goes Green for Tourism Big Data Can Transform the Global South s Growing Cities Indian Business Model Makes Green Energy Affordable South South Trade Helping Countries During Economic Crisis **Practical Data Science with Hadoop and Spark** Ofer Mendelevitch,Casey Stella,Douglas Eadline,2016-12-08 The Complete Guide to Data Science with Hadoop For Technical Professionals Businesspeople and Students Demand is soaring for professionals who can solve real data science problems with Hadoop and Spark Practical Data Science with Hadoop and Spark is your complete guide to doing just that Drawing on immense experience with Hadoop and big data three leading experts bring together everything you need high level concepts deep dive techniques real world use cases practical applications and hands on tutorials The authors introduce the essentials of data science and the modern Hadoop ecosystem explaining how Hadoop and Spark have evolved into an effective platform for solving data science problems at scale In addition to comprehensive application coverage the authors also provide useful guidance on the important steps of data ingestion data munging and visualization Once the groundwork is in place the authors focus on specific applications including machine learning predictive modeling for sentiment analysis clustering for document analysis anomaly detection and natural language processing NLP This guide provides a strong technical foundation for those who want to do practical data science and also presents business driven guidance on how to apply Hadoop and Spark to optimize ROI of data science initiatives Learn What data science is how it has evolved and how to plan a data science career How data volume variety and velocity shape data science use cases Hadoop and its ecosystem including HDFS MapReduce YARN and Spark Data importation with Hive and Spark Data quality preprocessing preparation and modeling Visualization surfacing insights from huge data sets Machine learning classification regression clustering and anomaly detection Algorithms and Hadoop tools for predictive modeling Cluster analysis and similarity functions Large scale anomaly detection NLP applying data science to human language *Practical Big Data Analytics* Nataraj Dasgupta,2018-01-15 Get command of your organizational Big Data using the power of data science and analytics Key Features A perfect companion to boost your Big Data storing processing analyzing skills to help you take informed business decisions Work with the best tools such as Apache Hadoop R Python and Spark for NoSQL platforms to perform massive online analyses Get expert tips on statistical inference machine learning mathematical modeling and data visualization for Big Data Book Description Big Data analytics relates to the strategies used by organizations to collect organize and analyze large amounts of data to uncover valuable business insights that otherwise cannot be analyzed through traditional systems

Crafting an enterprise scale cost efficient Big Data and machine learning solution to uncover insights and value from your organization s data is a challenge Today with hundreds of new Big Data systems machine learning packages and BI Tools selecting the right combination of technologies is an even greater challenge This book will help you do that With the help of this guide you will be able to bridge the gap between the theoretical world of technology with the practical ground reality of building corporate Big Data and data science platforms You will get hands on exposure to Hadoop and Spark build machine learning dashboards using R and R Shiny create web based apps using NoSQL databases such as MongoDB and even learn how to write R code for neural networks By the end of the book you will have a very clear and concrete understanding of what Big Data analytics means how it drives revenues for organizations and how you can develop your own Big Data analytics solution using different tools and methods articulated in this book What you will learn Get a 360 degree view into the world of Big Data data science and machine learning Broad range of technical and business Big Data analytics topics that caters to the interests of the technical experts as well as corporate IT executives Get hands on experience with industry standard Big Data and machine learning tools such as Hadoop Spark MongoDB KDB and R Create production grade machine learning BI Dashboards using R and R Shiny with step by step instructions Learn how to combine open source Big Data machine learning and BI Tools to create low cost business analytics applications Understand corporate strategies for successful Big Data and data science projects Go beyond general purpose analytics to develop cutting edge Big Data applications using emerging technologies Who this book is for The book is intended for existing and aspiring Big Data professionals who wish to become the go to person in their organization when it comes to Big Data architecture analytics and governance While no prior knowledge of Big Data or related technologies is assumed it will be helpful to have some programming experience **Pro Hadoop Data Analytics** Kerry Koitzsch,2016-12-29 Learn advanced analytical techniques and leverage existing tool kits to make your analytic applications more powerful precise and efficient This book provides the right combination of architecture design and implementation information to create analytical systems that go beyond the basics of classification clustering and recommendation Pro Hadoop Data Analytics emphasizes best practices to ensure coherent efficient development A complete example system will be developed using standard third party components that consist of the tool kits libraries visualization and reporting code as well as support glue to provide a working and extensible end to end system The book also highlights the importance of end to end flexible configurable high performance data pipeline systems with analytical components as well as appropriate visualization results You ll discover the importance of mix and match or hybrid systems using different analytical components in one application This hybrid approach will be prominent in the examples What You ll Learn Build big data analytic systems with the Hadoop ecosystem Use libraries tool kits and algorithms to make development easier and more effective Apply metrics to measure performance and efficiency of components and systems Connect to standard relational databases noSQL data sources and more Follow case studies with

example components to create your own systems Who This Book Is For Software engineers architects and data scientists with an interest in the design and implementation of big data analytical systems using Hadoop the Hadoop ecosystem and other associated technologies   **Smarter Data Science** Neal Fishman,Cole Stryker,2020-04-09 Organizations can make data science a repeatable predictable tool which business professionals use to get more value from their data Enterprise data and AI projects are often scattershot underbaked siloed and not adaptable to predictable business changes As a result the vast majority fail These expensive quagmires can be avoided and this book explains precisely how Data science is emerging as a hands on tool for not just data scientists but business professionals as well Managers directors IT leaders and analysts must expand their use of data science capabilities for the organization to stay competitive Smarter Data Science helps them achieve their enterprise grade data projects and AI goals It serves as a guide to building a robust and comprehensive information architecture program that enables sustainable and scalable AI deployments When an organization manages its data effectively its data science program becomes a fully scalable function that s both prescriptive and repeatable With an understanding of data science principles practitioners are also empowered to lead their organizations in establishing and deploying viable AI They employ the tools of machine learning deep learning and AI to extract greater value from data for the benefit of the enterprise By following a ladder framework that promotes prescriptive capabilities organizations can make data science accessible to a range of team members democratizing data science throughout the organization Companies that collect organize and analyze data can move forward to additional data science achievements Improving time to value with infused AI models for common use cases Optimizing knowledge work and business processes Utilizing AI based business intelligence and data visualization Establishing a data topology to support general or highly specialized needs Successfully completing AI projects in a predictable manner Coordinating the use of AI from any compute node From inner edges to outer edges cloud fog and mist computing When they climb the ladder presented in this book businesspeople and data scientists alike will be able to improve and foster repeatable capabilities They will have the knowledge to maximize their AI and data assets for the benefit of their organizations   *Ultimate Big Data Analytics with Apache Hadoop: Master Big Data Analytics with Apache Hadoop Using Apache Spark, Hive, and Python* Simhadri Govindappa,2024-09-09 Master the Hadoop Ecosystem and Build Scalable Analytics Systems Key Features Explains Hadoop YARN MapReduce and Tez for understanding distributed data processing and resource management Delves into Apache Hive and Apache Spark for their roles in data warehousing real time processing and advanced analytics Provides hands on guidance for using Python with Hadoop for business intelligence and data analytics Book Description In a rapidly evolving Big Data job market projected to grow by 28% through 2026 and with salaries reaching up to 150 000 annually mastering big data analytics with the Hadoop ecosystem is most sought after for career advancement The Ultimate Big Data Analytics with Apache Hadoop is an indispensable companion offering in depth knowledge and practical skills needed to excel in today s data driven landscape The book begins

laying a strong foundation with an overview of data lakes data warehouses and related concepts It then delves into core Hadoop components such as HDFS YARN MapReduce and Apache Tez offering a blend of theory and practical exercises You will gain hands on experience with query engines like Apache Hive and Apache Spark as well as file and table formats such as ORC Parquet Avro Iceberg Hudi and Delta Detailed instructions on installing and configuring clusters with Docker are included along with big data visualization and statistical analysis using Python Given the growing importance of scalable data pipelines this book equips data engineers analysts and big data professionals with practical skills to set up manage and optimize data pipelines and to apply machine learning techniques effectively Don t miss out on the opportunity to become a leader in the big data field to unlock the full potential of big data analytics with Hadoop What you will learn Gain expertise in building and managing large scale data pipelines with Hadoop YARN and MapReduce Master real time analytics and data processing with Apache Spark s powerful features Develop skills in using Apache Hive for efficient data warehousing and complex queries Integrate Python for advanced data analysis visualization and business intelligence in the Hadoop ecosystem Learn to enhance data storage and processing performance using formats like ORC Parquet and Delta Acquire hands on experience in deploying and managing Hadoop clusters with Docker and Kubernetes Build and deploy machine learning models with tools integrated into the Hadoop ecosystem Table of Contents 1 Introduction to Hadoop and ASF 2 Overview of Big Data Analytics 3 Hadoop and YARN MapReduce and Tez 4 Distributed Query Engines Apache Hive 5 Distributed Query Engines Apache Spark 6 File Formats and Table Formats Apache Ice berg Hudi and Delta 7 Python and the Hadoop Ecosystem for Big Data Analytics BI 8 Data Science and Machine Learning with Hadoop Ecosystem 9 Introduction to Cloud Computing and Other Apache Projects Index *Data Engineering with Apache Spark, Delta Lake, and Lakehouse* Manoj Kukreja,Danil Zburivsky,2021-10-22 Understand the complexities of modern day data engineering platforms and explore strategies to deal with them with the help of use case scenarios led by an industry expert in big data Key FeaturesBecome well versed with the core concepts of Apache Spark and Delta Lake for building data platformsLearn how to ingest process and analyze data that can be later used for training machine learning modelsUnderstand how to operationalize data models in production using curated dataBook Description In the world of ever changing data and schemas it is important to build data pipelines that can auto adjust to changes This book will help you build scalable data platforms that managers data scientists and data analysts can rely on Starting with an introduction to data engineering along with its key concepts and architectures this book will show you how to use Microsoft Azure Cloud services effectively for data engineering You ll cover data lake design patterns and the different stages through which the data needs to flow in a typical data lake Once you ve explored the main features of Delta Lake to build data lakes with fast performance and governance in mind you ll advance to implementing the lambda architecture using Delta Lake Packed with practical examples and code snippets this book takes you through real world examples based on production scenarios faced by the author in his 10 years of experience working

with big data Finally you ll cover data lake deployment strategies that play an important role in provisioning the cloud resources and deploying the data pipelines in a repeatable and continuous way By the end of this data engineering book you ll know how to effectively deal with ever changing data and create scalable data pipelines to streamline data science ML and artificial intelligence AI tasks What you will learnDiscover the challenges you may face in the data engineering worldAdd ACID transactions to Apache Spark using Delta LakeUnderstand effective design strategies to build enterprise grade data lakesExplore architectural and design patterns for building efficient data ingestion pipelinesOrchestrate a data pipeline for preprocessing data using Apache Spark and Delta Lake APIsAutomate deployment and monitoring of data pipelines in productionGet to grips with securing monitoring and managing data pipelines models efficientlyWho this book is for This book is for aspiring data engineers and data analysts who are new to the world of data engineering and are looking for a practical guide to building scalable data platforms If you already work with PySpark and want to use Delta Lake for data engineering you ll find this book useful Basic knowledge of Python Spark and SQL is expected **Designing Big Data Platforms** Yusuf Aytas,2021-07-27 DESIGNING BIG DATA PLATFORMS Provides expert guidance and valuable insights on getting the most out of Big Data systems An array of tools are currently available for managing and processing data some are ready to go solutions that can be immediately deployed while others require complex and time intensive setups With such a vast range of options choosing the right tool to build a solution can be complicated as can determining which tools work well with each other Designing Big Data Platforms provides clear and authoritative guidance on the critical decisions necessary for successfully deploying operating and maintaining Big Data systems This highly practical guide helps readers understand how to process large amounts of data with well known Linux tools and database solutions use effective techniques to collect and manage data from multiple sources transform data into meaningful business insights and much more Author Yusuf Aytas a software engineer with a vast amount of big data experience discusses the design of the ideal Big Data platform one that meets the needs of data analysts data engineers data scientists software engineers and a spectrum of other stakeholders across an organization Detailed yet accessible chapters cover key topics such as stream data processing data analytics data science data discovery and data security This real world manual for Big Data technologies Provides up to date coverage of the tools currently used in Big Data processing and management Offers step by step guidance on building a data pipeline from basic scripting to distributed systems Highlights and explains how data is processed at scale Includes an introduction to the foundation of a modern data platform Designing Big Data Platforms How to Use Deploy and Maintain Big Data Systems is a must have for all professionals working with Big Data as well researchers and students in computer science and related fields *Big Data Analytics with Hadoop 3* Sridhar Alla,2018-05-31 Explore big data concepts platforms analytics and their applications using the power of Hadoop 3 Key Features Learn Hadoop 3 to build effective big data analytics solutions on premise and on cloud Integrate Hadoop with other big data tools such as R Python Apache Spark and Apache Flink Exploit

big data using Hadoop 3 with real world examples Book Description Apache Hadoop is the most popular platform for big data processing and can be combined with a host of other big data tools to build powerful analytics solutions Big Data Analytics with Hadoop 3 shows you how to do just that by providing insights into the software as well as its benefits with the help of practical examples Once you have taken a tour of Hadoop 3 s latest features you will get an overview of HDFS MapReduce and YARN and how they enable faster more efficient big data processing You will then move on to learning how to integrate Hadoop with the open source tools such as Python and R to analyze and visualize data and perform statistical computing on big data As you get acquainted with all this you will explore how to use Hadoop 3 with Apache Spark and Apache Flink for real time data analytics and stream processing In addition to this you will understand how to use Hadoop to build analytics solutions on the cloud and an end to end pipeline to perform big data analysis using practical use cases By the end of this book you will be well versed with the analytical capabilities of the Hadoop ecosystem You will be able to build powerful solutions to perform big data analytics and get insight effortlessly What you will learn Explore the new features of Hadoop 3 along with HDFS YARN and MapReduce Get well versed with the analytical capabilities of Hadoop ecosystem using practical examples Integrate Hadoop with R and Python for more efficient big data processing Learn to use Hadoop with Apache Spark and Apache Flink for real time data analytics Set up a Hadoop cluster on AWS cloud Perform big data analytics on AWS using Elastic Map Reduce Who this book is for Big Data Analytics with Hadoop 3 is for you if you are looking to build high performance analytics solutions for your enterprise or business using Hadoop 3 s powerful features or you re new to big data analytics A basic understanding of the Java programming language is required **Data Analytics with Hadoop** Benjamin Bengfort,Jenny Kim,2016-06-01 Ready to use statistical and machine learning techniques across large data sets This practical guide shows you why the Hadoop ecosystem is perfect for the job Instead of deployment operations or software development usually associated with distributed computing you ll focus on particular analyses you can build the data warehousing techniques that Hadoop provides and higher order data workflows this framework can produce Data scientists and analysts will learn how to perform a wide range of techniques from writing MapReduce and Spark applications with Python to using advanced modeling and data management with Spark MLlib Hive and HBase You ll also learn about the analytical processes and data systems available to build and empower data products that can handle and actually require huge amounts of data Understand core concepts behind Hadoop and cluster computing Use design patterns and parallel analytical algorithms to create distributed data analysis jobs Learn about data management mining and warehousing in a distributed context using Apache Hive and HBase Use Sqoop and Apache Flume to ingest data from relational databases Program complex Hadoop and Spark applications with Apache Pig and Spark DataFrames Perform machine learning techniques such as classification clustering and collaborative filtering with Spark s MLlib **Data Analytics** Robert Keane,2017-12-11 This Book Includes 4 Manuscripts Data Analytics Master The Techniques For Data Science Big Data And Data Analytics If your business is like

most it is already generating a staggering amount of data on a regular basis Understanding what this data truly means is key to succeeding in the marketplace these days and if you are looking for a way to give yourself an edge then Data Analytics is the book you have been waiting for Inside this book you will find Everything you need to know to get started completing the right kind of data analysis to benefit your business regardless of what that business is The best ways to utilize predictive analysis effectively Easy to use machine learning and regression techniques The reasons why you need discrete choice models in your life Agile Project Management Focus On Continuous Improvement Scope Flexibility Team Input And Delivering Essential Quality Products Agile Project Management has grown in popularity over the past several years Change is occurring so fast that many organizations are unable to keep up with the demands of a changing global world Your ability to quickly change and adapt to your environment will make or break not only your career but could be the deciding factor as to whether your company survives in the coming years Those that have implemented the Agile strategies you will learn in this book are the ones that are succeeding and will be around for years to come Look around at your peers How many of them are looking to take that next step The answer is probably very few but not you You are an action taker The fact that you are looking for a book like this says so Here is some of what you will learn The Benefits of Agile for you and your organization Agile strategy and making Agile work within an organization What is Scrum and how to implement it Explanation of ITIL and how it relates to Agile Case Studies to show you Agile in action And an added BONUS THE SECRET WEAPON Machine Learning Master The Three Types Of Machine Learning Machine learning is vital to the world of information technology While many people may have no idea what machine learning is they have probably used it sometime in their daily lives For example if you have ever done a search query on a search engine you have worked with one form of machine learning The program to do your search query has been trained to find the best results based on what you are looking for and it will also learn from the choices that you make In this book you will find Understanding the Basics of Machine Learning Why should I Use Machine Learning Machine Learning Applications Generalization Models in Machine Learning Supervised Machine Learning Unsupervised Machine Learning Support Vector Machines Issues That Can Come Up In Machine Learning Hacking Computer Hacking Mastery The world of hacking has changed so much in recent years New attacks are being made and learning how to protect your system can be difficult than ever before This guidebook has all the information that you need to learn about some of the most common attacks that are going on in the world today as well as some of the things that you can do to protect yourself Now is the time Get started on your Project Management journey today Scroll Up And Click The BUY Button   Big Data Analytics Venkat Ankam,2016-09-28 A handy reference guide for data analysts and data scientists to help to obtain value from big data analytics using Spark on Hadoop clusters About This Book This book is based on the latest 2 0 version of Apache Spark and 2 7 version of Hadoop integrated with most commonly used tools Learn all Spark stack components including latest topics such as DataFrames DataSets GraphFrames Structured Streaming DataFrame based ML

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

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Agile Data Science Building Data Analytics Applications With Hadoop Introduction

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