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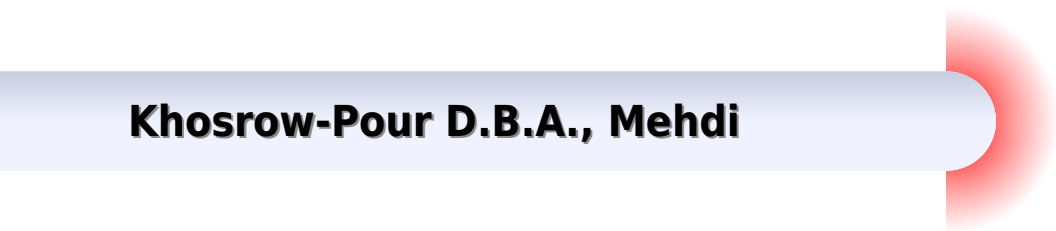
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Understanding Big Data Analytics For Enterprise Class Hadoop And Streaming Data

Khosrow-Pour D.B.A., Mehdi



Understanding Big Data Analytics For Enterprise Class Hadoop And Streaming Data:

Understanding Big Data: Analytics for Enterprise Class Hadoop and Streaming Data Paul Zikopoulos,Chris Eaton,2011-10-22 Big Data represents a new era in data exploration and utilization and IBM is uniquely positioned to help clients navigate this transformation This book reveals how IBM is leveraging open source Big Data technology infused with IBM technologies to deliver a robust secure highly available enterprise class Big Data platform The three defining characteristics of Big Data volume variety and velocity are discussed You ll get a primer on Hadoop and how IBM is hardening it for the enterprise and learn when to leverage IBM InfoSphere BigInsights Big Data at rest and IBM InfoSphere Streams Big Data in motion technologies Industry use cases are also included in this practical guide Learn how IBM hardens Hadoop for enterprise class scalability and reliability Gain insight into IBM s unique in motion and at rest Big Data analytics platform Learn tips and tricks for Big Data use cases and solutions Get a quick Hadoop primer **Harness the Power of Big Data The IBM Big Data Platform** Paul Zikopoulos,Dirk deRoos,Krishnan Parasuraman,Thomas Deutsch,James Giles,David Corrigan,2012-11-08 Boost your Big Data IQ Gain insight into how to govern and consume IBM s unique in motion and at rest Big Data analytic capabilities Big Data represents a new era of computing an inflection point of opportunity where data in any format may be explored and utilized for breakthrough insights whether that data is in place in motion or at rest IBM is uniquely positioned to help clients navigate this transformation This book reveals how IBM is infusing open source Big Data technologies with IBM innovation that manifest in a platform capable of changing the game The four defining characteristics of Big Data volume variety velocity and veracity are discussed You ll understand how IBM is fully committed to Hadoop and integrating it into the enterprise Hear about how organizations are taking inventories of their existing Big Data assets with search capabilities that help organizations discover what they could already know and extend their reach into new data territories for unprecedented model accuracy and discovery In this book you will also learn not just about the technologies that make up the IBM Big Data platform but when to leverage its purpose built engines for analytics on data in motion and data at rest And you ll gain an understanding of how and when to govern Big Data and how IBM s industry leading InfoSphere integration and governance portfolio helps you understand govern and effectively utilize Big Data Industry use cases are also included in this practical guide Effective Big Data Management and Opportunities for Implementation Singh, Manoj Kumar,G., Dileep Kumar,2016-06-20 Big data has become a commonly used term to describe large scale and complex data sets which are difficult to manage and analyze using standard data management methodologies With applications across sectors and fields of study the implementation and possible uses of big data are limitless Effective Big Data Management and Opportunities for Implementation explores emerging research on the ever growing field of big data and facilitates further knowledge development on methods for handling and interpreting large data sets Providing multi disciplinary perspectives fueled by international research this publication is designed for use by data analysts IT

professionals researchers and graduate level students interested in learning about the latest trends and concepts in big data

Research Anthology on Big Data Analytics, Architectures, and Applications Management Association, Information Resources, 2021-09-24 Society is now completely driven by data with many industries relying on data to conduct business or basic functions within the organization With the efficiencies that big data bring to all institutions data is continuously being collected and analyzed However data sets may be too complex for traditional data processing and therefore different strategies must evolve to solve the issue The field of big data works as a valuable tool for many different industries The Research Anthology on Big Data Analytics Architectures and Applications is a complete reference source on big data analytics that offers the latest innovative architectures and frameworks and explores a variety of applications within various industries Offering an international perspective the applications discussed within this anthology feature global representation Covering topics such as advertising curricula driven supply chain and smart cities this research anthology is ideal for data scientists data analysts computer engineers software engineers technologists government officials managers CEOs professors graduate students researchers and academicians

Internet of Things and Big Data Analytics Toward Next-Generation Intelligence Nilanjan Dey, Aboul Ella Hassanien, Chintan Bhatt, Amira S. Ashour, Suresh Chandra Satapathy, 2017-08-14 This book highlights state of the art research on big data and the Internet of Things IoT along with related areas to ensure efficient and Internet compatible IoT systems It not only discusses big data security and privacy challenges but also energy efficient approaches to improving virtual machine placement in cloud computing environments Big data and the Internet of Things IoT are ultimately two sides of the same coin yet extracting analyzing and managing IoT data poses a serious challenge Accordingly proper analytics infrastructures platforms should be used to analyze IoT data Information technology IT allows people to upload retrieve store and collect information which ultimately forms big data The use of big data analytics has grown tremendously in just the past few years At the same time the IoT has entered the public consciousness sparking people's imaginations as to what a fully connected world can offer Further the book discusses the analysis of real time big data to derive actionable intelligence in enterprise applications in several domains such as in industry and agriculture It explores possible automated solutions in daily life including structures for smart cities and automated home systems based on IoT technology as well as health care systems that manage large amounts of data big data to improve clinical decisions The book addresses the security and privacy of the IoT and big data technologies while also revealing the impact of IoT technologies on several scenarios in smart cities design Intended as a comprehensive introduction it offers in depth analysis and provides scientists engineers and professionals the latest techniques frameworks and strategies used in IoT and big data technologies

Process Mining Techniques for Managing and Improving Healthcare Systems Maha Zayoud, 2023-06-26 This book discusses a new process mining method along with a detailed comparison between different techniques that provide a complete vision of the process of data acquisition data analysis and data

prediction Process Mining Techniques for Managing and Improving Healthcare Systems offers a new framework for process learning which is probabilistic and enables the process to be learned in an accumulative manner The steps of prediction modeling and building the required knowledge are highlighted throughout the book along with a strong emphasis on the correlation between the healthcare domain and technology including the different aspects such as managing records information and procedures early detection of diseases and the improvement of accuracy in choosing the right treatment procedures This reference provides a wealth of knowledge for practitioners researchers and students at the basic and intermediary levels working within the healthcare system computer science electronics and communications as well as medical providers and also hospital management entities

Data Mining Mehmed Kantardzic, 2019-10-21 Presents the latest techniques for analyzing and extracting information from large amounts of data in high dimensional data spaces The revised and updated third edition of Data Mining contains in one volume an introduction to a systematic approach to the analysis of large data sets that integrates results from disciplines such as statistics artificial intelligence data bases pattern recognition and computer visualization Advances in deep learning technology have opened an entire new spectrum of applications The author a noted expert on the topic explains the basic concepts models and methodologies that have been developed in recent years This new edition introduces and expands on many topics as well as providing revised sections on software tools and data mining applications Additional changes include an updated list of references for further study and an extended list of problems and questions that relate to each chapter This third edition presents new and expanded information that Explores big data and cloud computing Examines deep learning Includes information on convolutional neural networks CNN Offers reinforcement learning Contains semi supervised learning and S3VM Reviews model evaluation for unbalanced data Written for graduate students in computer science computer engineers and computer information systems professionals the updated third edition of Data Mining continues to provide an essential guide to the basic principles of the technology and the most recent developments in the field

Encyclopedia of Information Science and Technology, Fifth Edition Khosrow-Pour D.B.A., Mehdi, 2020-07-24 The rise of intelligence and computation within technology has created an eruption of potential applications in numerous professional industries Techniques such as data analysis cloud computing machine learning and others have altered the traditional processes of various disciplines including healthcare economics transportation and politics Information technology in today s world is beginning to uncover opportunities for experts in these fields that they are not yet aware of The exposure of specific instances in which these devices are being implemented will assist other specialists in how to successfully utilize these transformative tools with the appropriate amount of discretion safety and awareness Considering the level of diverse uses and practices throughout the globe the fifth edition of the Encyclopedia of Information Science and Technology series continues the enduring legacy set forth by its predecessors as a premier reference that contributes the most cutting edge concepts and methodologies to the research community The

Encyclopedia of Information Science and Technology Fifth Edition is a three volume set that includes 136 original and previously unpublished research chapters that present multidisciplinary research and expert insights into new methods and processes for understanding modern technological tools and their applications as well as emerging theories and ethical controversies surrounding the field of information science Highlighting a wide range of topics such as natural language processing decision support systems and electronic government this book offers strategies for implementing smart devices and analytics into various professional disciplines The techniques discussed in this publication are ideal for IT professionals developers computer scientists practitioners managers policymakers engineers data analysts and programmers seeking to understand the latest developments within this field and who are looking to apply new tools and policies in their practice Additionally academicians researchers and students in fields that include but are not limited to software engineering cybersecurity information technology media and communications urban planning computer science healthcare economics environmental science data management and political science will benefit from the extensive knowledge compiled within this publication

The Indian National Bibliography ,2018-04 Sentiment Analysis. Am Beispiel von Movie Reviews Baris Erdem,2024-06-03 Studienarbeit aus dem Jahr 2019 im Fachbereich Informatik K nstliche Intelligenz Note 1 7 FOM Hochschule f r Oekonomie Management gemeinn tzige GmbH K ln Sprache Deutsch Abstract Die Motivation eine Sentiment Analyse auf Basis von Movie Reviews durchzuf hren ist vielf ltig und schafft unterschiedliche M glichkeiten f r diverse Zielgruppen Der globale Datensatz ber die Meinungen von Benutzern steigt t glich stetig an Um diese Meinungen zu klassifizieren und in positive und negative Kommentare einordnen zu k nnen wird im Rahmen dieser Projektarbeit ein Programm erstellt Das Programm soll einen Beispieldatensatz mit Movie Reviews automatisch in die Kategorien positiv 1 oder negativ 0 einordnen F r diese Aufgabe werden bereits existierende Data Mining Methoden zur Analyse von Meinungen und Bewertungen verwendet Des Weiteren werden zur Probleml sung Informationen aus wissenschaftlichen Artikeln Fachzeitschriften sowie Fachb chern herangezogen Mit kontinuierlichem Fortschritt der Web Technologie und dem damit verbundenen Wachstum wurde eine riesige Menge an Daten und Informationen erschaffen welche von Internetbenutzern generiert werden Das Internet ist zu einer Plattform geworden in welcher sich Menschen ber Ihre Ideen Meinungen und Anregungen austauschen k nnen Diese Meinungen und Ideen beziehen sich beispielsweise auf Produkte Orte B cher Meinungen von anderen Internetbenutzern und Filme Dieses Potential weckt mittlerweile auch das Interesse von Unternehmen Da diese Nutzergenerierten Inhalte im Internet in hohem Ma e zug nglich sind und diese Meinungen und Stimmungen unterschiedlich behaftet sein k nnen eignen diese sich besonders f r eine Analyse Die Stimmungsanalyse befasst sich mit der automatisierten Untersuchung unterschiedlicher Beitr ge auf Basis von subjektiven Aspekten Die Anzahl der aktiven Nutzer und die Gr e ihrer Bewertungen steigen von Tag zu Tag Es gibt etwa 2 4 Milliarden aktive Online Nutzer welche ber die ganze Welt verteilt Kommentare lesen und verbreiten Durch die Analyse von Filmkritiken kann ein globales

Scoringmodell für Filmdatenbanken erstellt werden welches über das bekannte Punktesystem beispielsweise 1 für schlecht und 5 für sehr gut hinausgeht

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

Harness the Power of Big Data The IBM Big Data Platform Paul Zikopoulos, Dirk deRoos, Krishnan Parasuraman, Thomas Deutsch, James Giles, David Corrigan, 2012-10-18 Boost your Big Data IQ Gain insight into how to govern and consume IBM's unique in motion and at rest Big Data analytic capabilities Big Data represents a new era of computing an inflection point of opportunity where data in any format may be explored and utilized for breakthrough insights whether that data is in place in motion or at rest IBM is uniquely positioned

to help clients navigate this transformation This book reveals how IBM is infusing open source Big Data technologies with IBM innovation that manifest in a platform capable of changing the game The four defining characteristics of Big Data volume variety velocity and veracity are discussed You ll understand how IBM is fully committed to Hadoop and integrating it into the enterprise Hear about how organizations are taking inventories of their existing Big Data assets with search capabilities that help organizations discover what they could already know and extend their reach into new data territories for unprecedented model accuracy and discovery In this book you will also learn not just about the technologies that make up the IBM Big Data platform but when to leverage its purpose built engines for analytics on data in motion and data at rest And you ll gain an understanding of how and when to govern Big Data and how IBM s industry leading InfoSphere integration and governance portfolio helps you understand govern and effectively utilize Big Data Industry use cases are also included in this practical guide

Modern Big Data Processing with Hadoop V Naresh Kumar,Prashant Shindgikar,2018-03-30 A comprehensive guide to design build and execute effective Big Data strategies using Hadoop Key Features Get an in depth view of the Apache Hadoop ecosystem and an overview of the architectural patterns pertaining to the popular Big Data platform Conquer different data processing and analytics challenges using a multitude of tools such as Apache Spark Elasticsearch Tableau and more A comprehensive step by step guide that will teach you everything you need to know to be an expert Hadoop Architect Book Description The complex structure of data these days requires sophisticated solutions for data transformation to make the information more accessible to the users This book empowers you to build such solutions with relative ease with the help of Apache Hadoop along with a host of other Big Data tools This book will give you a complete understanding of the data lifecycle management with Hadoop followed by modeling of structured and unstructured data in Hadoop It will also show you how to design real time streaming pipelines by leveraging tools such as Apache Spark and build efficient enterprise search solutions using Elasticsearch You will learn to build enterprise grade analytics solutions on Hadoop and how to visualize your data using tools such as Apache Superset This book also covers techniques for deploying your Big Data solutions on the cloud Apache Ambari as well as expert techniques for managing and administering your Hadoop cluster By the end of this book you will have all the knowledge you need to build expert Big Data systems What you will learn Build an efficient enterprise Big Data strategy centered around Apache Hadoop Gain a thorough understanding of using Hadoop with various Big Data frameworks such as Apache Spark Elasticsearch and more Set up and deploy your Big Data environment on premises or on the cloud with Apache Ambari Design effective streaming data pipelines and build your own enterprise search solutions Utilize the historical data to build your analytics solutions and visualize them using popular tools such as Apache Superset Plan set up and administer your Hadoop cluster efficiently Who this book is for This book is for Big Data professionals who want to fast track their career in the Hadoop industry and become an expert Big Data architect Project managers and mainframe professionals looking forward to build a career in Big Data Hadoop will also find this book

to be useful Some understanding of Hadoop is required to get the best out of this book

Real-Time Big Data Analytics
Sumit Gupta, Shilpi, 2016-02-26 Design process and analyze large sets of complex data in real time About This Book Get acquainted with transformations and database level interactions and ensure the reliability of messages processed using Storm Implement strategies to solve the challenges of real time data processing Load datasets build queries and make recommendations using Spark SQL Who This Book Is For If you are a Big Data architect developer or a programmer who wants to develop applications frameworks to implement real time analytics using open source technologies then this book is for you What You Will Learn Explore big data technologies and frameworks Work through practical challenges and use cases of real time analytics versus batch analytics Develop real word use cases for processing and analyzing data in real time using the programming paradigm of Apache Storm Handle and process real time transactional data Optimize and tune Apache Storm for varied workloads and production deployments Process and stream data with Amazon Kinesis and Elastic MapReduce Perform interactive and exploratory data analytics using Spark SQL Develop common enterprise architectures applications for real time and batch analytics In Detail Enterprise has been striving hard to deal with the challenges of data arriving in real time or near real time Although there are technologies such as Storm and Spark and many more that solve the challenges of real time data using the appropriate technology framework for the right business use case is the key to success This book provides you with the skills required to quickly design implement and deploy your real time analytics using real world examples of big data use cases From the beginning of the book we will cover the basics of varied real time data processing frameworks and technologies We will discuss and explain the differences between batch and real time processing in detail and will also explore the techniques and programming concepts using Apache Storm Moving on we ll familiarize you with Amazon Kinesis for real time data processing on cloud We will further develop your understanding of real time analytics through a comprehensive review of Apache Spark along with the high level architecture and the building blocks of a Spark program You will learn how to transform your data get an output from transformations and persist your results using Spark RDDs using an interface called Spark SQL to work with Spark At the end of this book we will introduce Spark Streaming the streaming library of Spark and will walk you through the emerging Lambda Architecture LA which provides a hybrid platform for big data processing by combining real time and precomputed batch data to provide a near real time view of incoming data Style and approach This step by step is an easy to follow detailed tutorial filled with practical examples of basic and advanced features Each topic is explained sequentially and supported by real world examples and executable code snippets

Big Data Infrastructure Technologies for Data Analytics
Yuri Demchenko, Juan J. Cuadrado-Gallego, Oleg Chertov, Marharyta Aleksandrova, 2024-10-25 This book provides a comprehensive overview and introduction to Big Data Infrastructure technologies existing cloud based platforms and tools for Big Data processing and data analytics combining both a conceptual approach in architecture design and a practical approach in technology selection and project implementation

Readers will learn the core functionality of major Big Data Infrastructure components and how they integrate to form a coherent solution with business benefits. Specific attention will be given to understanding and using the major Big Data platform Apache Hadoop ecosystem its main functional components MapReduce HBase Hive Pig Spark and streaming analytics. The book includes topics related to enterprise and research data management and governance and explains modern approaches to cloud and Big Data security and compliance. The book covers two knowledge areas defined in the EDISON Data Science Framework EDSF Data Science Engineering and Data Management and Governance and can be used as a textbook for university courses or provide a basis for practitioners for further self study and practical use of Big Data technologies and competent evaluation and implementation of practical projects in their organizations. *Big Data Analytics and Cloud Computing* Syed Thouheed Ahmed, Syed Muzamil Basha, Sajeew Ram Arumugam, Kiran Kumari Patil, 2021-09-05. Big data analytics and cloud computing is the fastest growing technologies in current era. This text book serves as a purpose in providing an understanding of big data principles and framework at the beginner's level. The text book covers various essential concepts of big data analytics and processing tools such as HADOOP and YARN. The Textbook covers an analogical understanding on bridging cloud computing with big data technologies with essential cloud infrastructure protocol and ecosystem concepts. PART I Hadoop Distributed File System Basics Running Example Programs and Benchmarks Hadoop MapReduce Framework Essential Hadoop Tools Hadoop YARN Applications Managing Hadoop with Apache Ambari Basic Hadoop Administration Procedures. PART II Introduction to Cloud Computing Origins and Influences Basic Concepts and Terminology Goals and Benefits Risks and Challenges Fundamental Concepts and Models Roles and Boundaries Cloud Characteristics Cloud Delivery Models Cloud Deployment Models Cloud Computing Technologies Broadband networks and internet architecture data center technology virtualization technology web technology multi tenant technology service Technology Cloud Infrastructure Mechanisms Logical Network Perimeter Virtual Server Cloud Storage Device Cloud Usage Monitor Resource Replication Ready made environment. **Big Data Analytics: Systems, Algorithms, Applications** C.S.R. Prabhu, Aneesh Sreevallabh Chivukula, Aditya Mogadala, Rohit Ghosh, L.M. Jenila Livingston, 2019-10-14. This book provides a comprehensive survey of techniques technologies and applications of Big Data and its analysis. The Big Data phenomenon is increasingly impacting all sectors of business and industry producing an emerging new information ecosystem. On the applications front the book offers detailed descriptions of various application areas for Big Data Analytics in the important domains of Social Semantic Web Mining Banking and Financial Services Capital Markets Insurance Advertisement Recommendation Systems Bio Informatics the IoT and Fog Computing before delving into issues of security and privacy. With regard to machine learning techniques the book presents all the standard algorithms for learning including supervised semi supervised and unsupervised techniques such as clustering and reinforcement learning techniques to perform collective Deep Learning. Multi layered and nonlinear learning for Big Data are also covered. In turn the book

highlights real life case studies on successful implementations of Big Data Analytics at large IT companies such as Google Facebook LinkedIn and Microsoft Multi sectorial case studies on domain based companies such as Deutsche Bank the power provider Opower Delta Airlines and a Chinese City Transportation application represent a valuable addition Given its comprehensive coverage of Big Data Analytics the book offers a unique resource for undergraduate and graduate students researchers educators and IT professionals alike

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

Ultimate Big Data Analytics with Apache Hadoop Simhadri Govindappa,2024-09-09 TAGLINE 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 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 WILL YOU 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 WHO IS THIS BOOK FOR This book is tailored for data engineers analysts software developers data scientists IT professionals and engineering students seeking to enhance their skills in big data analytics with Hadoop Prerequisites include a basic understanding of big data concepts programming knowledge in Java Python or SQL and basic Linux command line skills No prior experience with Hadoop is required but a foundational grasp of data principles and technical proficiency will help readers fully engage with the material 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 Iceberg 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

Mastering Big Data Cybellium,2023-09-06 Cybellium Ltd is dedicated to empowering individuals and organizations with the knowledge and skills they need to navigate the ever evolving computer science landscape securely and learn only the latest information available on any subject in the category of computer science including Information Technology IT Cyber Security Information Security Big Data Artificial Intelligence AI Engineering Robotics Standards and compliance Our mission is to be at the forefront of computer science education offering a wide and comprehensive range of resources including books courses classes and training programs tailored to meet the diverse needs of any subject in computer science Visit <https://www.cybellium.com>

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