Spark The Definitive Big Data Processing Made

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big data science fundamentals offers a comprehensive easy to understand and up to date understanding of big data for all business professionals and technologists leading enterprise technology author thomas erl introduces key big data concepts theory terminology

technologies key analysis analytics techniques and more all logically organized presented in plain english and supported by easy to understand diagrams and case study examples

as your company moves data to the cloud you need to consider a comprehensive approach to data governance along with well defined and agreed upon policies to ensure you meet compliance data governance incorporates the ways that people processes and technology work together to support business efficiency with this practical guide chief information data and security officers will learn how to effectively implement and scale data governance throughout their organizations you ll explore how to create a strategy and tooling to support the democratization of data and governance principles through good data governance you can inspire customer trust enable your organization to extract more value from data and generate more competitive offerings and improvements in customer experience this book shows you how enable auditable legal and regulatory compliance with defined and agreed upon data policies employ better risk management establish control and maintain visibility into your company s data assets providing a competitive advantage drive top line revenue and cost savings when developing new products and services implement your organization s people processes and tools to operationalize data trustworthiness

marketers are harnessing the enormous power of ai to drive unprecedented results the world of marketing is undergoing major change sophisticated algorithms can test billions of marketing messages and measure results and shift the weight of campaigns all in real time what s next a complete transformation of marketing as we know it where machines themselves design and implement customized advertising tactics at virtually every point of digital contact the invisible brand provides an in depth exploration of the risks and rewards of this epochal shift while delivering the information and insight you need to stay ahead of the game renowned technologist william ammerman draws from his decades of experience at the forefront of digital marketing to provide a roadmap to our data driven future you ll learn how data and ai will forge a new level of persuasiveness and influence for reshaping consumers buying decisions you ll understand the technology behind these changes and see how it is already at work in digital assistants recommendation engines and digital advertising and you ll find unmatched insight into how to harness the power of artificial intelligence for maximum results as we enter the age of mass customization of messaging power and influence will go to those who know the consumer best whether you are a marketing executive or concerned citizen the invisible brand provides everything you need to understand how brands are harnessing the extraordinary amounts of data at their disposal and capitalizing on it with ai

will big data supercharge the economy tyrannize us or both data exhaust is the definitive primer for everyone who wants to understand all the implications of big data digitally driven innovation and the accelerating internet economy renowned digital expert dale neef clearly explains what big data really is and what s new and different about it how big data works and what you need to know about big data technologies where the data is coming from how big data integrates sources ranging from social media to machine sensors smartphones to financial transactions how companies use big data analytics to gain a more nuanced accurate picture of their customers their own performance and the newest trends how governments and individual citizens can also benefit from big data how to overcome obstacles to success with big data including poor data that can magnify human error a realistic assessment of big data threats to employment and personal privacy now and in the future neef places the big data phenomenon where it belongs in the context of the broader global shift to the internet economy with all that implies by doing so he helps businesses plan big data strategy more effectively and helps citizens and policymakers identify sensible policies for preventing its misuse by conservative estimate the global big data market will soar past 50 billion by 2018 but those direct expenses represent just the tip of the iceberg when it comes to big data s impact big data is now of acute strategic interest for every organization that aims to succeed and it is equally important to everyone else whoever you are data exhaust tells you exactly what you need to know about big data and what to do about it too

written by leading information security educators this fully revised full color computer security textbook covers comptia s fastest growing credential comptia security principles of computer security fourth edition is a student tested introductory computer security textbook that provides comprehensive coverage of computer and network security fundamentals in an engaging and dynamic full color

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data science brings various scientific methods such as statistics mathematics and it together with expertise to get data to analyze forecast and make predictions to submit further information as well as to optimize existing processes data science takes care of collecting shaping storing managing and analyzing data and it benefits not only small but also established businesses to grow and handle large amounts of data booktopia

the definitive guide to successfully integrating social mobile big data analytics cloud and iot principles and technologies the main goal of this book is to spur the development of effective big data computing operations on smart clouds that are fully supported by iot sensing machine learning and analytics systems to that end the authors draw upon their original research and proven track record in the field to describe a practical approach integrating big data theories cloud design principles internet of things iot sensing machine learning data analytics and hadoop and spark programming part 1 focuses on data science the roles of clouds and iot devices and frameworks for big data computing big data analytics and cognitive machine learning as well as cloud architecture iot and cognitive systems are explored and mobile cloud iot interaction frameworks are illustrated with concrete system design examples part 2 is devoted to the principles of and algorithms for machine learning data analytics and deep learning in big data applications part 3 concentrates on cloud programming software libraries from mapreduce to hadoop spark and tensorflow and describes business educational healthcare and social media applications for those tools the first book describing a practical approach to integrating social mobile analytics cloud and iot smact principles and technologies covers theory and computing techniques and technologies making it suitable for use in both computer science and electrical engineering programs offers an extremely well informed vision of future intelligent and cognitive computing environments integrating smact technologies fully illustrated throughout with examples figures and approximately 150 problems to support and reinforce learning features a companion website with an instructor manual and powerpoint slides wiley com go hwangiot big data analytics for cloud iot and cognitive computing satisfies the demand among university faculty and students for cutting edge information on emerging intelligent and cognitive computing systems and technologies professionals working in data science cloud computing and iot applications will also find this book to be an extremely useful working resource

entertaining and absorbing the sunday times a wonderfully written and entertaining book which places britain under the microscope and asks who we are today and how we ve changed as a nation

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

work with petabyte scale datasets while building a collaborative agile workplace in the process this practical book is the canonical reference to google bigquery the query engine that lets you conduct interactive analysis of large datasets bigquery enables enterprises to efficiently store query ingest and learn from their data in a convenient framework with this book you ll examine how to analyze data at scale to derive insights from large datasets efficiently valliappa lakshmanan tech lead for google cloud platform and jordan tigani engineering director for the bigquery team provide best practices for modern data warehousing within an autoscaled serverless public cloud whether you want to explore parts of bigquery you re not familiar with or prefer to focus on specific tasks this reference is indispensable

this encyclopedia is composed of an eight volume set that provides an overview of the field of environmental analysis the contents are divided into major content areas including air pollution control environmental law and environmental sampling thevolumes are organized alphabetically with each article signed by the author s the individual articles begin with a summary of the topic heading and then divide the text into subtopics indicated by boldface headings the articles are written clearly however the authors assume a basic knowledge of chemistry and math on the part of the reader for example the acid mine drainage article refers to the arrhenius equation but does not clarify this statement in the text each article contains graphs as well as pictures to illustrate points made in the text the articles are long and provide a detailed explanation of each topic the authors also provide a bibliography at the end of each article special features of the encyclopedia include a list of contributors a table of conversion factors and a list of abbreviations and acronyms the preface outlines the general contents of the encyclopedia the preface also includes sections that suggest the target audience and recommended usages for the set the final volume of the set contains an alphabetic index to the topics contained in the volumes

selected peer reviewed full text papers from the 3rd international conference on future technologies in manufacturing automation design and energy icoft made 2022

vol 1 no 1 contains proceedings of the 17th or the last eastern photoelasticity conference

important new textbook gives students of pharmacy a one stop resource to develop the necessary skills to find read understand and evaluate drug literature epidemiological and mathematical concepts are explained clearly and concisely with real examples not hypothetical case studies key concepts correlation and regression analysis survival curve analysis medical informatics research process and experimental design are presented clearly and made relevant to the pharmacy arena

a must read for this era that lays out in common sense language how the us constitution works and how its protections are eroding before our eyes jake tapper cnn anchor and chief washington correspondent the constitution is the most significant document in america but do you fully understand what it means to you in how to read the constitution and why legal expert and educator kimberly wehle spells out in clear simple and common sense language what is in the constitution and most importantly what it means in compelling terms and including text from the united states constitution she describes how its protections are eroding not only in express terms but by virtue of the many legal and social norms that no longer shore up its legitimacy and why every american needs to heed to this red flag moment this invaluable and timely resource includes the constitution in its entirety and covers nearly every significant aspect of the text from the powers of the president and how the three branches of government are designed to hold each other accountable to what it means to have individual rights including free speech the right to bear arms the right to be free from unreasonable searches and seizures and the right to an abortion finally the book explains why it has never been more important than now for all americans to know how our constitution works and why if we don t step in to protect it we could lose its protections forever how to read the constitution and why is essential reading for anyone who cares about maintaining an accountable government and the individual freedoms that the constitution enshrines for everyone in america regardless of political party

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