

Big Data Analytics with Spark

A Practitioner's Guide to Using Spark
for Large Scale Data Analysis

—
Mohammed Guller

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Big Data Analytics Arun K. Somani, Ganesh Chandra Deka, 2017-10-30 The proposed book will discuss various aspects of big data Analytics It will deliberate upon the tools technology applications use cases and research directions in the field Chapters would be contributed by researchers scientist and practitioners from various reputed universities and organizations for the benefit of readers

Springer Handbook of Internet of Things Sébastien Ziegler, Renáta Radócz, Adrian Quesada Rodriguez, Sara Nieves Matheu Garcia, 2024-10-21 This handbook is an authoritative comprehensive reference on Internet of Things written for practitioners researchers and students around the world This book provides a definitive single point of reference material for all those interested to find out information about the basic technologies and approaches that are used to design and deploy IoT applications across a vast variety of different application fields spanning from smart buildings smart cities smart factories smart farming building automation connected vehicles and machine to machine communication The book is divided into ten parts each edited by top experts in the field The parts include IoT Basics IoT Hardware and Components Architecture and Reference Models IoT Networks Standards Overview IoT Security and Privacy From Data to Knowledge and Intelligence Application Domains Testbeds and Deployment and End User Engagement The contributors are leading authorities in the fields of engineering and represent academia industry and international government and regulatory agencies

Power Engineering Viorel Badescu, George Cristian Lazaroiu, Linda Barelli, 2018-12-07 Traditionally power engineering has been a subfield of energy engineering and electrical engineering which deals with the generation transmission distribution and utilization of electric power and the electrical devices connected to such systems including generators motors and transformers Implicitly this perception is associated with the generation of power in large hydraulic thermal and nuclear plants and distributed consumption Faced with the climate change phenomena humanity has had to now contend with changes in attitudes in respect of environment protection and depletion of classical energy resources These have had consequences in the power production sector already faced with negative public opinions on nuclear energy and favorable perception of renewable energy resources and about distributed power generation The objective of this edited book is to review all these changes and to present solutions for future power generation Future energy systems must factor in the changes and developments in technology like improvements of natural gas combined cycles and clean coal technologies carbon dioxide capture and storage advancements in nuclear reactors and hydropower renewable energy engineering power to gas conversion and fuel cells energy crops new energy vectors biomass hydrogen thermal energy storage new storage systems diffusion modern substations high voltage engineering equipment and compatibility HVDC transmission with FACTS advanced optimization in a liberalized market environment active grids and smart grids power system resilience power quality and cost of supply plug in electric vehicles smart metering control and communication technologies new key actors as prosumers smart cities The emerging research will enhance the security of energy systems safety in operation protection of

environment improve energy efficiency reliability and sustainability The book reviews current literature in the advances innovative options and solutions in power engineering It has been written for researchers engineers technicians and graduate and doctorate students interested in power engineering Medical Big Data and Internet of Medical Things Aboul Hassanien, Nilanjan Dey, Surekha Borra, 2018-10-25 Big data and the Internet of Things IoT play a vital role in prediction systems used in biological and medical applications particularly for resolving issues related to disease biology at different scales Modelling and integrating medical big data with the IoT helps in building effective prediction systems for automatic recommendations of diagnosis and treatment The ability to mine process analyse characterize classify and cluster a variety and wide volume of medical data is a challenging task There is a great demand for the design and development of methods dealing with capturing and automatically analysing medical data from imaging systems and IoT sensors Addressing analytical and legal issues and research on integration of big data analytics with respect to clinical practice and clinical utility architectures and clustering techniques for IoT data processing effective frameworks for removal of misclassified instances practicality of big data analytics methodological and technical issues potential of Hadoop in managing healthcare data is the need of the hour This book integrates different aspects used in the field of healthcare such as big data IoT soft computing machine learning augmented reality organs on chip personalized drugs implantable electronics integration of bio interfaces and wearable sensors devices practical body area network BAN and architectures of web systems Key Features Addresses various applications of Medical Big Data and Internet of Medical Things in real time environment Highlights recent innovations designs developments and topics of interest in machine learning techniques for classification of medical data Provides background and solutions to existing challenges in Medical Big Data and Internet of Medical Things Provides optimization techniques and programming models to parallelize the computationally intensive tasks in data mining of medical data Discusses interactions advantages limitations challenges and future perspectives of IoT based remote healthcare monitoring systems Includes data privacy and security analysis of cryptography methods for the Web of Medical Things WoMT Presents case studies on the next generation medical chair electronic nose and pill cam are also presented

High-Performance Modelling and Simulation for Big Data Applications Joanna Kołodziej, Horacio González-Vélez, 2019-03-25 This open access book was prepared as a Final Publication of the COST Action IC1406 High Performance Modelling and Simulation for Big Data Applications cHiPSet project Long considered important pillars of the scientific method Modelling and Simulation have evolved from traditional discrete numerical methods to complex data intensive continuous analytical optimisations Resolution scale and accuracy have become essential to predict and analyse natural and complex systems in science and engineering When their level of abstraction raises to have a better discernment of the domain at hand their representation gets increasingly demanding for computational and data resources On the other hand High Performance Computing typically entails the effective use of parallel and distributed processing units coupled

with efficient storage communication and visualisation systems to underpin complex data intensive applications in distinct scientific and technical domains It is then arguably required to have a seamless interaction of High Performance Computing with Modelling and Simulation in order to store compute analyse and visualise large data sets in science and engineering Funded by the European Commission cHiPSet has provided a dynamic trans European forum for their members and distinguished guests to openly discuss novel perspectives and topics of interests for these two communities This cHiPSet compendium presents a set of selected case studies related to healthcare biological data computational advertising multimedia finance bioinformatics and telecommunications

Research Challenges in Information Science Renata Guizzardi,Jolita Ralyté,Xavier Franch,2022-05-13 This book constitutes the proceedings of the 16th International Conference on Research Challenges in Information Sciences RCIS 2022 which took place in Barcelona Spain during May 17 20 2022 It focused on the special theme Ethics and Trustworthiness in Information Science The scope of RCIS is summarized by the thematic areas of information systems and their engineering user oriented approaches data and information management business process management domain specific information systems engineering data science information infrastructures and reflective research and practice The 35 full papers presented in this volume were carefully reviewed and selected from a total 100 submissions The 18 Forum papers are based on 11 Forum submissions from which 5 were selected and the remaining 13 were transferred from the regular submissions The 6 Doctoral Consortium papers were selected from 10 submissions to the consortium The contributions were organized in topical sections named Data Science and Data Management Information Search and Analysis Business Process Management Business Process Mining Digital Transformation and Smart Life Conceptual Modelling and Ontologies Requirements Engineering Model Driven Engineering Machine Learning Applications In addition two page summaries of the tutorials can be found in the back matter

Real-Time Data Analytics for Large Scale Sensor Data Himansu Das,Nilanjan Dey,Valentina Emilia Balas,2019-08-31 Real Time Data Analytics for Large Scale Sensor Data covers the theory and applications of hardware platforms and architectures the development of software methods techniques and tools applications governance and adoption strategies for the use of massive sensor data in real time data analytics It presents the leading edge research in the field and identifies future challenges in this fledgling research area The book captures the essence of real time IoT based solutions that require a multidisciplinary approach for catering to on the fly processing including methods for high performance stream processing adaptively streaming adjustment uncertainty handling latency handling and more Examines IoT applications the design of real time intelligent systems and how to manage the rapid growth of the large volume of sensor data Discusses intelligent management systems for applications such as healthcare robotics and environment modeling Provides a focused approach towards the design and implementation of real time intelligent systems for the management of sensor data in large scale environments

Machine Learning and Artificial Intelligence A.J. Tallón-Ballesteros,C.-H. Chen,2020-12-15 Machine

learning and artificial intelligence are already widely applied to facilitate our daily lives as well as scientific research but with the world currently facing a global COVID 19 pandemic their capacity to provide an important tool to support those searching for a way to combat the novel corona virus has never been more important This book presents the proceedings of the International Conference on Machine Learning and Intelligent Systems MLIS 2020 which was due to be held in Seoul Korea from 25 28 October 2020 but which was delivered as an online conference on the same dates due to COVID 19 restrictions MLIS 2020 was the latest in a series of annual conferences that aim to provide a platform for exchanging knowledge about the most recent scientific and technological advances in the field of machine learning and intelligent systems The annual conference also strengthens links within the scientific community in related research areas The book contains 53 papers selected from more than 160 submissions and presented at MLIS 2020 Selection was based on the results of review and scored on originality scientific practical significance compelling logical reasoning and language Topics covered include data mining image processing neural networks human health natural language processing video processing computational intelligence expert systems human computer interaction deep learning and robotics Offering a current overview of research and developments in machine learning and artificial intelligence the book will be of interest to all those working in the field

Fuzzy Logic and Applications Robert Fullér, Silvio Giove, Francesco Masulli, 2019-02-22 This book constitutes the post conference proceedings of the 12th International Workshop on Fuzzy Logic and Applications WILF 2018 held in Genoa Italy in September 2018 The 17 revised full papers and 9 short papers were carefully reviewed and selected from 26 submissions The papers are organized in topical sections on fuzzy logic theory recent applications of fuzzy logic and fuzzy decision making Also included are papers from the round table Zadeh and the future of logic and a tutorial

Responsible Analytics and Data Mining in Education Badrul H. Khan, Joseph Rene Corbeil, Maria Elena Corbeil, 2018-12-07 Winner of two Outstanding Book Awards from the Association of Educational Communications and Technology Culture Learning how the data and its interpretations may inadvertently impact students faculty and institutions the quality and reliability of data as well as the accuracy of data based decisions ethical implications surrounding the collection distribution and use of student generated data and more This volume unpacks and explores this complex issue through a systematic framework whose dimensions address the issues that must be considered before implementation of a new initiative or program

Big Data Analytics Ümit Demirbaga, Gagangeet Singh Aujla, Anish Jindal, Oğuzhan Kalyon, 2024-05-07 This book introduces readers to big data analytics It covers the background to and the concepts of big data big data analytics and cloud computing along with the process of setting up configuring and getting familiar with the big data analytics working environments in the first two chapters The third chapter provides comprehensive information on big data processing systems from installing these systems to implementing real world data applications along with the necessary codes The next chapter dives into the details of big data storage technologies including their types essentiality durability and

availability and reveals their differences in their properties The fifth and sixth chapters guide the reader through understanding configuring and performing the monitoring and debugging of big data systems and present the available commercial and open source tools for this purpose Chapter seven gives information about a trending machine learning Bayesian network a probabilistic graphical model by presenting a real world probabilistic application to understand causal complex and hidden relationships for diagnosis and forecasting in a scalable manner for big data Special sections throughout the eighth chapter present different case studies and applications to help the readers to develop their big data analytics skills using various big data analytics frameworks The book will be of interest to business executives and IT managers as well as university students and their course leaders in fact all those who want to get involved in the big data world Healthcare Paradigms in the Internet of Things Ecosystem Valentina Emilia Balas,Souvik Pal,2020-11-07 Health Care Paradigms in the Internet of Things Ecosystem brings all IoT enabled health care related technologies into a single platform so that undergraduate and postgraduate students researchers academicians and industry leaders can easily understand IoT based healthcare systems The book uses data and network engineering and intelligent decision support system by design principles to design a reliable IoT enabled health care ecosystem and to implement cyber physical pervasive infrastructure solutions It takes the reader on a journey that begins with understanding the healthcare monitoring paradigm in IoT enabled technologies and how it can be applied in various aspects In addition the book walks readers through real time challenges and presents a guide on how to build a safe infrastructure for IoT based health care It also helps researchers and practitioners understand the e health care architecture through IoT and the state of the art in IoT countermeasures Readers will find this to be a comprehensive discussion on functional frameworks for IoT based healthcare systems intelligent medicine RFID technology HMI Cognitive Interpretation Brain Computer Interface Remote Health Monitoring systems wearable sensors WBAN and security and privacy issues in IoT based health care monitoring systems Presents the complete functional framework workflow in IoT enabled healthcare technologies Explains concepts of location aware protocols and decisive mobility in IoT healthcare Provides complete coverage of intelligent data processing and wearable sensor technologies in IoT enabled healthcare Explores the Human Machine Interface and its implications in patient care systems in IoT healthcare Explores security and privacy issues and challenges related to data intensive technologies in healthcare based Internet of Things **Principles of Big Graph: In-depth Insight** ,2023-01-24 Principles of Big Graph In depth Insight Volume 128 in the Advances in Computer series highlights new advances in the field with this new volume presenting interesting chapters on a variety of topics including CESDAM Centered subgraph data matrix for large graph representation Bivariate cluster and suitability analysis of NoSQL Solutions for big graph applications An empirical investigation on Big Graph using deep learning Analyzing correlation between quality and accuracy of graph clustering geneBF Filtering protein coded gene graph data using bloom filter Processing large graphs with an alternative representation MapReduce based

convolutional graph neural networks A comprehensive review Fast exact triangle counting in large graphs using SIMD acceleration A comprehensive investigation on attack graphs Qubit representation of a binary tree and its operations in quantum computation Modified ML KNN Role of similarity measures and nearest neighbor configuration in multi label text classification on big social network graph data Big graph based online learning through social networks Community detection in large scale real world networks Power rank An interactive web page ranking algorithm GA based energy efficient modelling of a wireless sensor network The major challenges of big graph and their solutions A review and An investigation on socio cyber crime graph Provides an update on the issues and challenges faced by current researchers Updates on future research agendas Includes advanced topics for intensive research for researchers **Health**

Information Science Xiaoxia Yin,James Geller,Ye Li,Rui Zhou,Hua Wang,Yanchun Zhang,2016-10-14 This book constitutes the refereed proceedings of the 5th International Conference on Health Information Science HIS 2016 held in Shanghai China in November 2016 The 13 full papers and 9 short papers presented were carefully reviewed and selected from numerous submissions The scope of the papers includes medical health biomedicine information resources such as patient medical records devices and equipments software and tools to capture store retrieve process analyze and optimize the use of information in the health domain data management data mining and knowledge discovery all of which play a key role in decision making management of public health examination of standards privacy and security issues computer visualization and artificial intelligence for computer aided diagnosis development of new architectures and applications for health information systems Soft Computing and Signal Processing V. Sivakumar Reddy,V. Kamakshi Prasad,Jiacun Wang,K. T. V. Reddy,2020-03-13 This book presents selected research papers on current developments in the fields of soft computing and signal processing from the Second International Conference on Soft Computing and Signal Processing ICSCSP 2019 The respective contributions address topics such as soft sets rough sets fuzzy logic neural networks genetic algorithms and machine learning and discuss various aspects of these topics e g technological considerations product implementation and application issues Data Engineering for Data-Driven Marketing Balamurugan Baluswamy,Veena Grover,M. K. Nallakuruppan,Vijay Anand Rajasekaran,Mariofanna Milanova,2025-03-10 Offering a thorough exploration of the symbiotic relationship between data engineering and modern marketing strategies Data Engineering for Data Driven Marketing uses a strategic lens to delve into methodologies of collecting transforming and storing diverse data sources Deep Learning and Edge Computing Solutions for High Performance Computing A. Suresh,Sara Paiva,2021-01-27 This book provides an insight into ways of inculcating the need for applying mobile edge data analytics in bioinformatics and medicine The book is a comprehensive reference that provides an overview of the current state of medical treatments and systems and offers emerging solutions for a more personalized approach to the healthcare field Topics include deep learning methods for applications in object detection and identification object tracking human action recognition and cross modal and multimodal

data analysis High performance computing systems for applications in healthcare are also discussed The contributors also include information on microarray data analysis sequence analysis genomics based analytics disease network analysis and techniques for big data Analytics and health information technology

Foundations of Intelligent Systems Marzena Kryszkiewicz, Annalisa Appice, Dominik Ślęzak, Henryk Rybinski, Andrzej Skowron, Zbigniew W. Raś, 2017-06-19 This book constitutes the proceedings of the 23rd International Symposium on Foundations of Intelligent Systems ISMIS 2017 held in Warsaw Poland in June 2017 The 56 regular and 15 short papers presented in this volume were carefully reviewed and selected from 118 submissions The papers include both theoretical and practical aspects of machine learning data mining methods deep learning bioinformatics and health informatics intelligent information systems knowledge based systems mining temporal spatial and spatio temporal data text and Web mining In addition four special sessions were organized namely Special Session on Big Data Analytics and Stream Data Mining Special Session on Granular and Soft Clustering for Data Science Special Session on Knowledge Discovery with Formal Concept Analysis and Related Formalisms and Special Session devoted to ISMIS 2017 Data Mining Competition on Trading Based on Recommendations which was launched as a part of the conference

Evolutionary Computing and Mobile Sustainable Networks V. Suma, Nouredine Bouhmala, Haoxiang Wang, 2020-07-31 This book features selected research papers presented at the International Conference on Evolutionary Computing and Mobile Sustainable Networks ICECMSN 2020 held at the Sir M Visvesvaraya Institute of Technology on 20 21 February 2020 Discussing advances in evolutionary computing technologies including swarm intelligence algorithms and other evolutionary algorithm paradigms which are emerging as widely accepted descriptors for mobile sustainable networks virtualization optimization and automation this book is a valuable resource for researchers in the field of evolutionary computing and mobile sustainable networks

Open Data and Energy Analytics Benedetto Nastasi, Massimiliano Manfren, Michel Noussan, 2020-06-25 Open data and policy implications coming from data aware planning entail collection and pre and postprocessing as operations of primary interest Before these steps making data available to people and their decision makers is a crucial point Referring to the relationship between data and energy public administrations governments and research bodies are promoting the construction of reliable and robust datasets to pursue policies coherent with the Sustainable Development Goals as well as to allow citizens to make informed choices Energy engineers and planners must provide the simplest and most robust tools to collect process and analyze data in order to offer solid data based evidence for future projections in building district and regional systems planning This Special Issue aims at providing the state of the art on open energy data analytics its availability in the different contexts i e country peculiarities and its availability at different scales i e building district and regional for data aware planning and policy making For all the aforementioned reasons we encourage researchers to share their original works on the field of open data and energy analytics Topics of primary interest include but are not limited to the following 1 Open data and energy sustainability 2 Open

data science and energy planning 3 Open science and open governance for sustainable development goals 4 Key performance indicators of data aware energy modelling planning and policy 5 Energy water and sustainability database for building district and regional systems 6 Best practices and case studies

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Table of Contents Big Data Analytics With Spark Home Springer

1. Understanding the eBook Big Data Analytics With Spark Home Springer
 - The Rise of Digital Reading Big Data Analytics With Spark Home Springer
 - Advantages of eBooks Over Traditional Books
2. Identifying Big Data Analytics With Spark Home Springer
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Big Data Analytics With Spark Home Springer
 - User-Friendly Interface
4. Exploring eBook Recommendations from Big Data Analytics With Spark Home Springer
 - Personalized Recommendations
 - Big Data Analytics With Spark Home Springer User Reviews and Ratings
 - Big Data Analytics With Spark Home Springer and Bestseller Lists
5. Accessing Big Data Analytics With Spark Home Springer Free and Paid eBooks
 - Big Data Analytics With Spark Home Springer Public Domain eBooks
 - Big Data Analytics With Spark Home Springer eBook Subscription Services
 - Big Data Analytics With Spark Home Springer Budget-Friendly Options

6. Navigating Big Data Analytics With Spark Home Springer eBook Formats
 - ePub, PDF, MOBI, and More
 - Big Data Analytics With Spark Home Springer Compatibility with Devices
 - Big Data Analytics With Spark Home Springer Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Big Data Analytics With Spark Home Springer
 - Highlighting and Note-Taking Big Data Analytics With Spark Home Springer
 - Interactive Elements Big Data Analytics With Spark Home Springer
8. Staying Engaged with Big Data Analytics With Spark Home Springer
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Big Data Analytics With Spark Home Springer
9. Balancing eBooks and Physical Books Big Data Analytics With Spark Home Springer
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Big Data Analytics With Spark Home Springer
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Big Data Analytics With Spark Home Springer
 - Setting Reading Goals Big Data Analytics With Spark Home Springer
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Big Data Analytics With Spark Home Springer
 - Fact-Checking eBook Content of Big Data Analytics With Spark Home Springer
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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