Apache Mahout

[Apache Mahout Beyond Mapreduce](#)

Arun Murthy,Vinod Vavilapalli,Douglas Eadline,Joseph Niemiec,Jeff Markham

Apache Mahout Beyond Mapreduce :

    Apache Mahout Dmitriy Lyubimov,Andrew Palumbo,2016-02-18 Apache Mahout Beyond MapReduce Distributed algorithm design This book is about designing mathematical and Machine Learning algorithms using the Apache Mahout Samsara platform The material takes on best programming practices as well as conceptual approaches to attacking Machine Learning problems in big datasets Math is explained followed by code examples of distributed and in memory computations Written by Apache Mahout committers for people who want to learn how to design distributed math algorithms as well as how to use some of the new Mahout Samsara algorithms off the shelf The book covers Apache Mahout 0 10 and 0 11

    Learning from Imbalanced Data Sets Alberto Fernández,Salvador García,Mikel Galar,Ronaldo C. Prati,Bartosz Krawczyk,Francisco Herrera,2018-10-22 This book provides a general and comprehensible overview of imbalanced learning It contains a formal description of a problem and focuses on its main features and the most relevant proposed solutions Additionally it considers the different scenarios in Data Science for which the imbalanced classification can create a real challenge This book stresses the gap with standard classification tasks by reviewing the case studies and ad hoc performance metrics that are applied in this area It also covers the different approaches that have been traditionally applied to address the binary skewed class distribution Specifically it reviews cost sensitive learning data level preprocessing methods and algorithm level solutions taking also into account those ensemble learning solutions that embed any of the former alternatives Furthermore it focuses on the extension of the problem for multi class problems where the former classical methods are no longer to be applied in a straightforward way This book also focuses on the data intrinsic characteristics that are the main causes which added to the uneven class distribution truly hinders the performance of classification algorithms in this scenario Then some notes on data reduction are provided in order to understand the advantages related to the use of this type of approaches Finally this book introduces some novel areas of study that are gathering a deeper attention on the imbalanced data issue Specifically it considers the classification of data streams non classical classification problems and the scalability related to Big Data Examples of software libraries and modules to address imbalanced classification are provided This book is highly suitable for technical professionals senior undergraduate and graduate students in the areas of data science computer science and engineering It will also be useful for scientists and researchers to gain insight on the current developments in this area of study as well as future research directions   **Kubeflow for Machine Learning** Trevor Grant,Holden Karau,Boris Lublinsky,Richard Liu,Ilan Filonenko,2020-10-13 If you re training a machine learning model but aren t sure how to put it into production this book will get you there Kubeflow provides a collection of cloud native tools for different stages of a model s lifecycle from data exploration feature preparation and model training to model serving This guide helps data scientists build production grade machine learning implementations with Kubeflow and shows data engineers how to make models scalable and reliable Using examples throughout the book authors Holden Karau Trevor

Grant Ilan Filonenko Richard Liu and Boris Lublinsky explain how to use Kubeflow to train and serve your machine learning models on top of Kubernetes in the cloud or in a development environment on premises Understand Kubeflow s design core components and the problems it solves Understand the differences between Kubeflow on different cluster types Train models using Kubeflow with popular tools including Scikit learn TensorFlow and Apache Spark Keep your model up to date with Kubeflow Pipelines Understand how to capture model training metadata Explore how to extend Kubeflow with additional open source tools Use hyperparameter tuning for training Learn how to serve your model in production   Handbook of e-Tourism Zheng Xiang,Matthias Fuchs,Ulrike Gretzel,Wolfram Höpken,2022-09-01 This handbook provides an authoritative and truly comprehensive overview both of the diverse applications of information and communication technologies ICTs within the travel and tourism industry and of e tourism as a field of scientific inquiry that has grown and matured beyond recognition Leading experts from around the world describe cutting edge ideas and developments present key concepts and theories and discuss the full range of research methods The coverage accordingly encompasses everything from big data and analytics to psychology user behavior online marketing supply chain and operations management smart business networks policy and regulatory issues and much much more The goal is to provide an outstanding reference that summarizes and synthesizes current knowledge and establishes the theoretical and methodological foundations for further study of the role of ICTs in travel and tourism The handbook will meet the needs of researchers and students in various disciplines as well as industry professionals As with all volumes in Springer s Major Reference Works program readers will benefit from access to a continually updated online version   Machine Learning Hamed Farhadi,2018-09-19 The volume of data that is generated stored and communicated across different industrial sections business units and scientific research communities has been rapidly expanding The recent developments in cellular telecommunications and distributed parallel computation technology have enabled real time collection and processing of the generated data across different sections On the one hand the internet of things IoT enabled by cellular telecommunication industry connects various types of sensors that can collect heterogeneous data On the other hand the recent advances in computational capabilities such as parallel processing in graphical processing units GPUs and distributed processing over cloud computing clusters enabled the processing of a vast amount of data There has been a vital need to discover important patterns and infer trends from a large volume of data so called Big Data to empower data driven decision making processes Tools and techniques have been developed in machine learning to draw insightful conclusions from available data in a structured and automated fashion Machine learning algorithms are based on concepts and tools developed in several fields including statistics artificial intelligence information theory cognitive science and control theory The recent advances in machine learning have had a broad range of applications in different scientific disciplines This book covers recent advances of machine learning techniques in a broad range of applications in smart cities automated industry and emerging businesses   **Resilience in the Digital Age** Fred S.

Roberts,Igor A. Sheremet,2021-02-19 The growth of a global digital economy has enabled rapid communication instantaneous movement of funds and availability of vast amounts of information With this come challenges such as the vulnerability of digitalized sociotechnological systems STSs to destructive events earthquakes disease events terrorist attacks Similar issues arise for disruptions to complex linked natural and social systems from changing climates evolving urban environments etc This book explores new approaches to the resilience of sociotechnological and natural social systems in a digital world of big data extraordinary computing capacity and rapidly developing methods of Artificial Intelligence Most of the book s papers were presented at the Workshop on Big Data and Systems Analysis held at the International Institute for Applied Systems Analysis in Laxenburg Austria in February 2020 Their authors are associated with the Task Group Advanced mathematical tools for data driven applied systems analysis created and sponsored by CODATA in November 2018 The world wide COVID 19 pandemic illustrates the vulnerability of our healthcare systems supply chains and social infrastructure and confronts our notions of what makes a system resilient We have found that use of AI tools can lead to problems when unexpected events occur On the other hand the vast amounts of data available from sensors satellite images social media etc can also be used to make modern systems more resilient Papers in the book explore disruptions of complex networks and algorithms that minimize departure from a previous state after a disruption introduce a multigrammatical framework for the technological and resource bases of today s large scale industrial systems and the transformations resulting from disruptive events and explain how robotics can enhance pre emptive measures or post disaster responses to increase resiliency Other papers explore current directions in data processing and handling and principles of FAIRness in data how the availability of large amounts of data can aid in the development of resilient STSs and challenges to overcome in doing so The book also addresses interactions between humans and built environments focusing on how AI can inform today s smart and connected buildings and make them resilient and how AI tools can increase resilience to misinformation and its dissemination

Handbook of Big Data Technologies Albert Y. Zomaya,Sherif Sakr,2017-02-25 This handbook offers comprehensive coverage of recent advancements in Big Data technologies and related paradigms Chapters are authored by international leading experts in the field and have been reviewed and revised for maximum reader value The volume consists of twenty five chapters organized into four main parts Part one covers the fundamental concepts of Big Data technologies including data curation mechanisms data models storage models programming models and programming platforms It also dives into the details of implementing Big SQL query engines and big stream processing systems Part Two focuses on the semantic aspects of Big Data management including data integration and exploratory ad hoc analysis in addition to structured querying and pattern matching techniques Part Three presents a comprehensive overview of large scale graph processing It covers the most recent research in large scale graph processing platforms introducing several scalable graph querying and mining mechanisms in domains such as social networks Part Four details novel applications that have been made possible by the

rapid emergence of Big Data technologies such as Internet of Things IOT Cognitive Computing and SCADA Systems All parts of the book discuss open research problems including potential opportunities that have arisen from the rapid progress of Big Data technologies and the associated increasing requirements of application domains Designed for researchers IT professionals and graduate students this book is a timely contribution to the growing Big Data field Big Data has been recognized as one of leading emerging technologies that will have a major contribution and impact on the various fields of science and varies aspect of the human society over the coming decades Therefore the content in this book will be an essential tool to help readers understand the development and future of the field   Big Data Analytics and Knowledge Discovery Min Song,Il-Yeol Song,Gabriele Kotsis,A Min Tjoa,Ismail Khalil,2020-09-10 The volume LNCS 12393 constitutes the papers of the 22nd International Conference Big Data Analytics and Knowledge Discovery which will be held online in September 2020 The 15 full papers presented together with 14 short papers plus 1 position paper in this volume were carefully reviewed and selected from a total of 77 submissions This volume offers a wide range to following subjects on theoretical and practical aspects of big data analytics and knowledge discovery as a new generation of big data repository data pre processing data mining text mining sequences graph mining and parallel processing   Big Data Analytics Mrutyunjaya Panda,Ajith Abraham,Aboul Ella Hassanien,2018-12-12 Social networking has increased drastically in recent years resulting in an increased amount of data being created daily Furthermore diversity of issues and complexity of the social networks pose a challenge in social network mining Traditional algorithm software cannot deal with such complex and vast amounts of data necessitating the development of novel analytic approaches and tools This reference work deals with social network aspects of big data analytics It covers theory practices and challenges in social networking The book spans numerous disciplines like neural networking deep learning artificial intelligence visualization e learning in higher education e healthcare security and intrusion detection   **Apache Mahout Essentials** Jayani Withanawasam,2015-06-19 Apache Mahout is a scalable machine learning library with algorithms for clustering classification and recommendations It empowers users to analyze patterns in large diverse and complex datasets faster and more scalably This book is an all inclusive guide to analyzing large and complex datasets using Apache Mahout It explains complicated but very effective machine learning algorithms simply in relation to real world practical examples Starting from the fundamental concepts of machine learning and Apache Mahout this book guides you through Apache Mahout s implementations of machine learning techniques including classification clustering and recommendations During this exciting walkthrough real world applications a diverse range of popular algorithms and their implementations code examples evaluation strategies and best practices are given for each technique Finally you will learn vdata visualization techniques for Apache Mahout to bring your data to life **Mastering Hadoop** Sandeep Karanth,2014-12-29 Do you want to broaden your Hadoop skill set and take your knowledge to the next level Do you wish to enhance your knowledge of Hadoop to solve challenging data processing

problems Are your Hadoop jobs Pig scripts or Hive queries not working as fast as you intend Are you looking to understand the benefits of upgrading Hadoop If the answer is yes to any of these this book is for you It assumes novice level familiarity with Hadoop **Mahout in Action** Sean Owen,B. Ellen Friedman,Robin Anil,Ted Dunning,2011-10-04 Summary Mahout in Action is a hands on introduction to machine learning with Apache Mahout Following real world examples the book presents practical use cases and then illustrates how Mahout can be applied to solve them Includes a free audio and video enhanced ebook About the Technology A computer system that learns and adapts as it collects data can be really powerful Mahout Apache s open source machine learning project captures the core algorithms of recommendation systems classification and clustering in ready to use scalable libraries With Mahout you can immediately apply to your own projects the machine learning techniques that drive Amazon Netflix and others About this Book This book covers machine learning using Apache Mahout Based on experience with real world applications it introduces practical use cases and illustrates how Mahout can be applied to solve them It places particular focus on issues of scalability and how to apply these techniques against large data sets using the Apache Hadoop framework This book is written for developers familiar with Java no prior experience with Mahout is assumed Owners of a Manning pBook purchased anywhere in the world can download a free eBook from manning com at any time They can do so multiple times and in any or all formats available PDF ePub or Kindle To do so customers must register their printed copy on Manning s site by creating a user account and then following instructions printed on the pBook registration insert at the front of the book What s Inside Use group data to make individual recommendations Find logical clusters within your data Filter and refine with on the fly classification Free audio and video extras Table of Contents Meet Apache Mahout PART 1 RECOMMENDATIONS Introducing recommenders Representing recommender data Making recommendations Taking recommenders to production Distributing recommendation computations PART 2 CLUSTERING Introduction to clustering Representing data Clustering algorithms in Mahout Evaluating and improving clustering quality Taking clustering to production Real world applications of clustering PART 3 CLASSIFICATION Introduction to classification Training a classifier Evaluating and tuning a classifier Deploying a classifier Case study Shop It To Me **Big Data Analytics Beyond Hadoop** Vijay Srinivas Agneeswaran,2014-05-15 Master alternative Big Data technologies that can do what Hadoop can t real time analytics and iterative machine learning When most technical professionals think of Big Data analytics today they think of Hadoop But there are many cutting edge applications that Hadoop isn t well suited for especially real time analytics and contexts requiring the use of iterative machine learning algorithms Fortunately several powerful new technologies have been developed specifically for use cases such as these Big Data Analytics Beyond Hadoop is the first guide specifically designed to help you take the next steps beyond Hadoop Dr Vijay Srinivas Agneeswaran introduces the breakthrough Berkeley Data Analysis Stack BDAS in detail including its motivation design architecture Mesos cluster management performance and more He presents realistic use cases and up to date example code for Spark the next

generation in memory computing technology from UC Berkeley Storm the parallel real time Big Data analytics technology from Twitter GraphLab the next generation graph processing paradigm from CMU and the University of Washington with comparisons to alternatives such as Pregel and Piccolo Halo also offers architectural and design guidance and code sketches for scaling machine learning algorithms to Big Data and then realizing them in real time He concludes by previewing emerging trends including real time video analytics SDNs and even Big Data governance security and privacy issues He identifies intriguing startups and new research possibilities including BDAS extensions and cutting edge model driven analytics Big Data Analytics Beyond Hadoop is an indispensable resource for everyone who wants to reach the cutting edge of Big Data analytics and stay there practitioners architects programmers data scientists researchers startup entrepreneurs and advanced students **Apache Hadoop YARN** Arun Murthy,Vinod Vavilapalli,Douglas Eadline,Joseph Niemiec,Jeff Markham,2014-03-14 This book is a critically needed resource for the newly released Apache Hadoop 2 0 highlighting YARN as the significant breakthrough that broadens Hadoop beyond the MapReduce paradigm From the Foreword by Raymie Stata CEO of Altiscale The Insider s Guide to Building Distributed Big Data Applications with Apache Hadoop YARN Apache Hadoop is helping drive the Big Data revolution Now its data processing has been completely overhauled Apache Hadoop YARN provides resource management at data center scale and easier ways to create distributed applications that process petabytes of data And now in Apache Hadoop YARN two Hadoop technical leaders show you how to develop new applications and adapt existing code to fully leverage these revolutionary advances YARN project founder Arun Murthy and project lead Vinod Kumar Vavilapalli demonstrate how YARN increases scalability and cluster utilization enables new programming models and services and opens new options beyond Java and batch processing They walk you through the entire YARN project lifecycle from installation through deployment You ll find many examples drawn from the authors cutting edge experience first as Hadoop s earliest developers and implementers at Yahoo and now as Hortonworks developers moving the platform forward and helping customers succeed with it Coverage includes YARN s goals design architecture and components how it expands the Apache Hadoop ecosystem Exploring YARN on a single node Administering YARN clusters and Capacity Scheduler Running existing MapReduce applications Developing a large scale clustered YARN application Discovering new open source frameworks that run under YARN **Learning Apache Mahout** Chandramani Tiwary,2015 If you are a Java developer and want to use Mahout and machine learning to solve Big Data Analytics use cases then this book is for you Familiarity with shell scripts is assumed but no prior experience is required **Hadoop in Practice** Alex Holmes,2014-09-29 Summary Hadoop in Practice Second Edition provides over 100 tested instantly useful techniques that will help you conquer big data using Hadoop This revised new edition covers changes and new features in the Hadoop core architecture including MapReduce 2 Brand new chapters cover YARN and integrating Kafka Impala and Spark SQL with Hadoop You ll also get new and updated techniques for Flume Sqoop and Mahout all of which have seen major new versions

recently In short this is the most practical up to date coverage of Hadoop available anywhere Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About the Book It s always a good time to upgrade your Hadoop skills Hadoop in Practice Second Edition provides a collection of 104 tested instantly useful techniques for analyzing real time streams moving data securely machine learning managing large scale clusters and taming big data using Hadoop This completely revised edition covers changes and new features in Hadoop core including MapReduce 2 and YARN You ll pick up hands on best practices for integrating Spark Kafka and Impala with Hadoop and get new and updated techniques for the latest versions of Flume Sqoop and Mahout In short this is the most practical up to date coverage of Hadoop available Readers need to know a programming language like Java and have basic familiarity with Hadoop What s Inside Thoroughly updated for Hadoop 2 How to write YARN applications Integrate real time technologies like Storm Impala and Spark Predictive analytics using Mahout and RR Readers need to know a programming language like Java and have basic familiarity with Hadoop About the Author Alex Holmes works on tough big data problems He is a software engineer author speaker and blogger specializing in large scale Hadoop projects Table of Contents PART 1 BACKGROUND AND FUNDAMENTALS Hadoop in a heartbeat Introduction to YARN PART 2 DATA LOGISTICS Data serialization working with text and beyond Organizing and optimizing data in HDFS Moving data into and out of Hadoop PART 3 BIG DATA PATTERNS Applying MapReduce patterns to big data Utilizing data structures and algorithms at scale Tuning debugging and testing PART 4 BEYOND MAPREDUCE SQL on Hadoop Writing a YARN application *Real-World Hadoop* Ted Dunning,Ellen Friedman,2015-03-24 If you re a business team leader CIO business analyst or developer interested in how Apache Hadoop and Apache HBase related technologies can address problems involving large scale data in cost effective ways this book is for you Using real world stories and situations authors Ted Dunning and Ellen Friedman show Hadoop newcomers and seasoned users alike how NoSQL databases and Hadoop can solve a variety of business and research issues You ll learn about early decisions and pre planning that can make the process easier and more productive If you re already using these technologies you ll discover ways to gain the full range of benefits possible with Hadoop While you don t need a deep technical background to get started this book does provide expert guidance to help managers architects and practitioners succeed with their Hadoop projects Examine a day in the life of big data India s ambitious Aadhaar project Review tools in the Hadoop ecosystem such as Apache s Spark Storm and Drill to learn how they can help you Pick up a collection of technical and strategic tips that have helped others succeed with Hadoop Learn from several prototypical Hadoop use cases based on how organizations have actually applied the technology Explore real world stories that reveal how MapR customers combine use cases when putting Hadoop and NoSQL to work including in production **Hadoop in Practice** Alex Holmes,2014-10-12 Summary Hadoop in Practice Second Edition provides over 100 tested instantly useful techniques that will help you conquer big data using Hadoop This revised new edition covers changes and new features in the Hadoop core architecture including

MapReduce 2 Brand new chapters cover YARN and integrating Kafka Impala and Spark SQL with Hadoop You ll also get new and updated techniques for Flume Sqoop and Mahout all of which have seen major new versions recently In short this is the most practical up to date coverage of Hadoop available anywhere Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About the Book It s always a good time to upgrade your Hadoop skills Hadoop in Practice Second Edition provides a collection of 104 tested instantly useful techniques for analyzing real time streams moving data securely machine learning managing large scale clusters and taming big data using Hadoop This completely revised edition covers changes and new features in Hadoop core including MapReduce 2 and YARN You ll pick up hands on best practices for integrating Spark Kafka and Impala with Hadoop and get new and updated techniques for the latest versions of Flume Sqoop and Mahout In short this is the most practical up to date coverage of Hadoop available Readers need to know a programming language like Java and have basic familiarity with Hadoop What s Inside Thoroughly updated for Hadoop 2 How to write YARN applications Integrate real time technologies like Storm Impala and Spark Predictive analytics using Mahout and RR Readers need to know a programming language like Java and have basic familiarity with Hadoop About the Author Alex Holmes works on tough big data problems He is a software engineer author speaker and blogger specializing in large scale Hadoop projects Table of Contents PART 1 BACKGROUND AND FUNDAMENTALS Hadoop in a heartbeat Introduction to YARN PART 2 DATA LOGISTICS Data serialization working with text and beyond Organizing and optimizing data in HDFS Moving data into and out of Hadoop PART 3 BIG DATA PATTERNS Applying MapReduce patterns to big data Utilizing data structures and algorithms at scale Tuning debugging and testing PART 4 BEYOND MAPREDUCE SQL on Hadoop Writing a YARN application **Big Data Analytics Using Apache Mahout/Hadoop** Marc-André Leinweber,2013 **Introduction to Apache Flink** Ellen Friedman,Ellen Friedman, M D,Kostas Tzoumas,2016-10-19 There s growing interest in learning how to analyze streaming data in large scale systems such as web traffic financial transactions machine logs industrial sensors and many others But analyzing data streams at scale has been difficult to do well until now This practical book delivers a deep introduction to Apache Flink a highly innovative open source stream processor with a surprising range of capabilities Authors Ellen Friedman and Kostas Tzoumas show technical and nontechnical readers alike how Flink is engineered to overcome significant tradeoffs that have limited the effectiveness of other approaches to stream processing You ll also learn how Flink has the ability to handle both stream and batch data processing with one technology Learn the consequences of not doing streaming well in retail and marketing IoT telecom and banking and finance Explore how to design data architecture to gain the best advantage from stream processing Get an overview of Flink s capabilities and features along with examples of how companies use Flink including in production Take a technical dive into Flink and learn how it handles time and stateful computation Examine how Flink processes both streaming unbounded and batch bounded data without sacrificing performance

Apache Mahout Beyond Mapreduce Book Review: Unveiling the Power of Words

In some sort of driven by information and connectivity, the ability of words has be evident than ever. They have the capability to inspire, provoke, and ignite change. Such may be the essence of the book **Apache Mahout Beyond Mapreduce** , a literary masterpiece that delves deep into the significance of words and their affect our lives. Compiled by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book is key themes, examine its writing style, and analyze its overall effect on readers.

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