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Apache Mahout Clustering Designs

**Tanupriya Choudhury, Avita Katal, Jung-
Sup Um, Ajay Rana, Marwan Al-Akaidi**

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Apache Mahout Clustering Designs Ashish Gupta,2015-10-08 Explore clustering algorithms used with Apache Mahout About This Book Use Mahout for clustering datasets and gain useful insights Explore the different clustering algorithms used in day to day work A practical guide to create and evaluate your own clustering models using real world data sets Who This Book Is For This book is for developers who want to try out clustering on large datasets using Mahout It will also be useful for those users who don t have background in Mahout but have knowledge of basic programming and are familiar with basics of machine learning and clustering It will be helpful if you know about clustering techniques with some other tool What You Will Learn Explore clustering algorithms and cluster evaluation techniques Learn different types of clustering and distance measuring techniques Perform clustering on your data using K Means clustering Discover how canopy clustering is used as pre process step for K Means Use the Fuzzy K Means algorithm in Apache Mahout Implement Streaming K Means clustering in Mahout Learn Spectral K Means clustering implementation of Mahout In Detail As more and more organizations are discovering the use of big data analytics interest in platforms that provide storage computation and analytic capabilities has increased Apache Mahout caters to this need and paves the way for the implementation of complex algorithms in the field of machine learning to better analyse your data and get useful insights into it Starting with the introduction of clustering algorithms this book provides an insight into Apache Mahout and different algorithms it uses for clustering data It provides a general introduction of the algorithms such as K Means Fuzzy K Means StreamingKMeans and how to use Mahout to cluster your data using a particular algorithm You will study the different types of clustering and learn how to use Apache Mahout with real world data sets to implement and evaluate your clusters This book will discuss about cluster improvement and visualization using Mahout APIs and also explore model based clustering and topic modelling using Dirichlet process Finally you will learn how to build and deploy a model for production use Style and approach This book is a hand s on guide with examples using real world datasets Each chapter begins by explaining the algorithm in detail and follows up with showing how to use mahout for that algorithm using example data sets

Pig Design Patterns Pradeep Pasupuleti,2014-04-17 A comprehensive practical guide that walks you through the multiple stages of data management in enterprise and gives you numerous design patterns with appropriate code examples to solve frequent problems in each of these stages The chapters are organized to mimic the sequential data flow evidenced in Analytics platforms but they can also be read independently to solve a particular group of problems in the Big Data life cycle If you are an experienced developer who is already familiar with Pig and is looking for a use case standpoint where they can relate to the problems of data ingestion profiling cleansing transforming and egressing data encountered in the enterprises Knowledge of Hadoop and Pig is necessary for readers to grasp the intricacies of Pig design patterns better

Machine Learning in Java AshishSingh Bhatia,Bostjan Kaluza,2018-11-28 Leverage the power of Java and its associated machine learning libraries to build powerful predictive

models Key Features Solve predictive modeling problems using the most popular machine learning Java libraries Explore data processing machine learning and NLP concepts using JavaML WEKA MALLET libraries Practical examples tips and tricks to help you understand applied machine learning in Java Book Description As the amount of data in the world continues to grow at an almost incomprehensible rate being able to understand and process data is becoming a key differentiator for competitive organizations Machine learning applications are everywhere from self driving cars spam detection document search and trading strategies to speech recognition This makes machine learning well suited to the present day era of big data and Data Science The main challenge is how to transform data into actionable knowledge Machine Learning in Java will provide you with the techniques and tools you need You will start by learning how to apply machine learning methods to a variety of common tasks including classification prediction forecasting market basket analysis and clustering The code in this book works for JDK 8 and above the code is tested on JDK 11 Moving on you will discover how to detect anomalies and fraud and ways to perform activity recognition image recognition and text analysis By the end of the book you will have explored related web resources and technologies that will help you take your learning to the next level By applying the most effective machine learning methods to real world problems you will gain hands on experience that will transform the way you think about data What you will learn Discover key Java machine learning libraries Implement concepts such as classification regression and clustering Develop a customer retention strategy by predicting likely churn candidates Build a scalable recommendation engine with Apache Mahout Apply machine learning to fraud anomaly and outlier detection Experiment with deep learning concepts and algorithms Write your own activity recognition model for eHealth applications Who this book is for If you want to learn how to use Java's machine learning libraries to gain insight from your data this book is for you It will get you up and running quickly and provide you with the skills you need to successfully create customize and deploy machine learning applications with ease You should be familiar with Java programming and some basic data mining concepts to make the most of this book but no prior experience with machine learning is required

Handbook of Systems Engineering and Risk Management in Control Systems, Communication, Space Technology, Missile, Security and Defense Operations Anna M. Doro-on, 2022-09-27 This book provides multifaceted components and full practical perspectives of systems engineering and risk management in security and defense operations with a focus on infrastructure and manpower control systems missile design space technology satellites intercontinental ballistic missiles and space security While there are many existing selections of systems engineering and risk management textbooks there is no existing work that connects systems engineering and risk management concepts to solidify its usability in the entire security and defense actions With this book Dr Anna M Doro on rectifies the current imbalance She provides a comprehensive overview of systems engineering and risk management before moving to deeper practical engineering principles integrated with newly developed concepts and examples based on industry and government methodologies The chapters also cover related points including design

principles for defeating and deactivating improvised explosive devices and land mines and security measures against kinds of threats The book is designed for systems engineers in practice political risk professionals managers policy makers engineers in other engineering fields scientists decision makers in industry and government and to serve as a reference work in systems engineering and risk management courses with focus on security and defense operations

Information Systems Design and Intelligent Applications Suresh Chandra Satapathy,Jyotsna Kumar Mandal,Siba K. Udgata,Vikrant Bhateja,2016-02-05 The third international conference on INformation Systems Design and Intelligent Applications INDIA 2016 held in Visakhapatnam India during January 8 9 2016 The book covers all aspects of information system design computer science and technology general sciences and educational research Upon a double blind review process a number of high quality papers are selected and collected in the book which is composed of three different volumes and covers a variety of topics including natural language processing artificial intelligence security and privacy communications wireless and sensor networks microelectronics circuit and systems machine learning soft computing mobile computing and applications cloud computing software engineering graphics and image processing rural engineering e commerce e governance business computing molecular computing nano computing chemical computing intelligent computing for GIS and remote sensing bio informatics and bio computing These fields are not only limited to computer researchers but also include mathematics chemistry biology bio chemistry engineering statistics and all others in which computer techniques may assist

Fuzzy Systems and Data Mining IV Antonio J. Tallón-Ballesteros,Kaicheng Li,2018-11-15 Big Data Analytics is on the rise in the last years of the current decade Data are overwhelming the computation capacity of high performance servers Cloud grid edge and fog computing are a few examples of the current hype Computational Intelligence offers two faces to deal with the development of models on the one hand the crisp approach which considers for every variable an exact value and on the other hand the fuzzy focus which copes with values between two boundaries This book presents 114 papers from the 4th International Conference on Fuzzy Systems and Data Mining FSDM 2018 held in Bangkok Thailand from 16 to 19 November 2018 All papers were carefully reviewed by program committee members who took into consideration the breadth and depth of the research topics that fall within the scope of FSDM The acceptance rate was 32 85% Offering a state of the art overview of fuzzy systems and data mining the publication will be of interest to all those whose work involves data science

Distributed Machine Learning and Gradient Optimization Jiawei Jiang,Bin Cui,Ce Zhang,2022-02-23 This book presents the state of the art in distributed machine learning algorithms that are based on gradient optimization methods In the big data era large scale datasets pose enormous challenges for the existing machine learning systems As such implementing machine learning algorithms in a distributed environment has become a key technology and recent research has shown gradient based iterative optimization to be an effective solution Focusing on methods that can speed up large scale gradient optimization through both algorithm optimizations and careful system implementations the book introduces

three essential techniques in designing a gradient optimization algorithm to train a distributed machine learning model parallel strategy data compression and synchronization protocol Written in a tutorial style it covers a range of topics from fundamental knowledge to a number of carefully designed algorithms and systems of distributed machine learning It will appeal to a broad audience in the field of machine learning artificial intelligence big data and database management

Telemedicine: The Computer Transformation of Healthcare Tanupriya Choudhury,Avita Katal,Jung-Sup Um,Ajay Rana,Marwan Al-Akaidi,2022-08-24 This book provides an overview of the innovative concepts methodologies and frameworks that will increase the feasibility of the existing telemedicine system With the arrival of advanced technologies telehealth has become a new subject requiring a different understanding of IT devices and of their use to fulfill health needs Different topics are discussed from the basics of TeleMedicine to help readers understand the technology from ground up to details about the infrastructure and communication technologies to offer deeper insights into the technology The use of IoT and cloud services along with the use of blockchain technology in TeleMedicine are also discussed Detailed information about the use of machine learning and computer vision techniques for the proper transmission of medical data keeping in mind the bandwidth of the network are provided The book will be a readily accessible source of information for professionals working in the area of information technology as well as for the all those involved in the healthcare environment

Software Architecture for Big Data and the Cloud Ivan Mistrik,Rami Bahsoon,Nour Ali,Maritta Heisel,Bruce Maxim,2017-06-12 Software Architecture for Big Data and the Cloud is designed to be a single resource that brings together research on how software architectures can solve the challenges imposed by building big data software systems The challenges of big data on the software architecture can relate to scale security integrity performance concurrency parallelism and dependability amongst others Big data handling requires rethinking architectural solutions to meet functional and non functional requirements related to volume variety and velocity The book s editors have varied and complementary backgrounds in requirements and architecture specifically in software architectures for cloud and big data as well as expertise in software engineering for cloud and big data This book brings together work across different disciplines in software engineering including work expanded from conference tracks and workshops led by the editors Discusses systematic and disciplined approaches to building software architectures for cloud and big data with state of the art methods and techniques Presents case studies involving enterprise business and government service deployment of big data applications Shares guidance on theory frameworks methodologies and architecture for cloud and big data

Intelligent System Design Suresh Chandra Satapathy,Vikrant Bhateja,B. Janakiramaiah,Yen-Wei Chen,2020-08-10 This book presents a collection of high quality peer reviewed research papers from the 6th International Conference on Information System Design and Intelligent Applications INDIA 2019 held at Lendi Institute of Engineering Technology India from 1 to 2 November 2019 It covers a wide range of topics in computer science and information technology including data mining and

data warehousing high performance computing parallel and distributed computing computational intelligence soft computing
big data cloud computing grid computing and cognitive computing

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