

# Apache Mahout Cookbook

A fast, fresh, developer-oriented dive into the world of Apache Mahout



## **Apache Mahout Cookbook Giacomelli Piero**

Piero Giacomelli

#### **Apache Mahout Cookbook Giacomelli Piero:**

Apache Mahout Cookbook Piero Giacomelli, 2013-12 Apache Mahout Cookbook uses over 35 recipes packed with illustrations and real world examples to help beginners as well as advanced programmers get acquainted with the features of Mahout Apache Mahout Cookbook is great for developers who want to have a fresh and fast introduction to Mahout coding No previous knowledge of Mahout is required and even skilled developers or system administrators will benefit from the various recipes presented **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 quide 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

**Handbook of Research on Big Data Storage and Visualization Techniques** Segall, Richard S.,Cook, Jeffrey S.,2018-01-05 The digital age has presented an exponential growth in the amount of data available to individuals looking to draw conclusions based on given or collected information across industries Challenges associated with the analysis security sharing storage and visualization of large and complex data sets continue to plague data scientists and analysts alike as

traditional data processing applications struggle to adequately manage big data The Handbook of Research on Big Data Storage and Visualization Techniques is a critical scholarly resource that explores big data analytics and technologies and their role in developing a broad understanding of issues pertaining to the use of big data in multidisciplinary fields Featuring coverage on a broad range of topics such as architecture patterns programing systems and computational energy this publication is geared towards professionals researchers and students seeking current research and application topics on the **Pro Hadoop Data Analytics** Kerry Koitzsch, 2016-12-29 Learn advanced analytical techniques and leverage existing tool kits to make your analytic applications more powerful precise and efficient This book provides the right combination of architecture design and implementation information to create analytical systems that go beyond the basics of classification clustering and recommendation Pro Hadoop Data Analytics emphasizes best practices to ensure coherent efficient development A complete example system will be developed using standard third party components that consist of the tool kits libraries visualization and reporting code as well as support glue to provide a working and extensible end to end system The book also highlights the importance of end to end flexible configurable high performance data pipeline systems with analytical components as well as appropriate visualization results You ll discover the importance of mix and match or hybrid systems using different analytical components in one application. This hybrid approach will be prominent in the examples What You ll Learn Build big data analytic systems with the Hadoop ecosystem Use libraries tool kits and algorithms to make development easier and more effective Apply metrics to measure performance and efficiency of components and systems Connect to standard relational databases noSQL data sources and more Follow case studies with example components to create your own systems Who This Book Is For Software engineers architects and data scientists with an interest in the design and implementation of big data analytical systems using Hadoop the Hadoop ecosystem and other associated technologies Practical Machine Learning: Innovations in Recommendation Ted Dunning, Ellen Friedman, 2014-08-18 Building a simple but powerful recommendation system is much easier than you think Approachable for all levels of expertise this report explains innovations that make machine learning practical for business production settings and demonstrates how even a small scale development team can design an effective large scale recommendation system Apache Mahout committers Ted Dunning and Ellen Friedman walk you through a design that relies on careful simplification You ll learn how to collect the right data analyze it with an algorithm from the Mahout library and then easily deploy the recommender using search technology such as Apache Solr or Elasticsearch Powerful and effective this efficient combination does learning offline and delivers rapid response recommendations in real time Understand the tradeoffs between simple and complex recommenders Collect user data that tracks user actions rather than their ratings Predict what a user wants based on behavior by others using Mahoutfor co occurrence analysis Use search technology to offer recommendations in real time complete with item metadata Watch the recommender in action with a music service example Improve your recommender

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