

# **Apache Mahout Essentials**

Implement top-notch machine learning algorithms for classification, clustering, and recommendations with Apache Mahout





# **Apache Mahout Essentials**

**Kartik Bhatnagar, Barry Hart** 

#### **Apache Mahout Essentials:**

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 **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 **Hadoop Essentials** Shiva Achari, 2015-04-29 If you are a system or application developer interested in learning how to solve practical problems using the Hadoop framework then this book is ideal for you This book is also meant for Hadoop professionals who want to find solutions to the different challenges they come across in their Hadoop projects HDInsight Essentials - Second Edition Rajesh Nadipalli, 2015-01-27 If you want to discover one of the latest tools designed to produce stunning Big Data insights this book features everything you need to get to grips with your data Whether you are a data architect developer or a business strategist HDInsight adds value in Apache Hive Essentials Dayong Du, 2018-06-30 This book everything from development administration and reporting takes you on a fantastic journey to discover the attributes of big data using Apache Hive Key Features Grasp the skills needed to write efficient Hive queries to analyze the Big Data Discover how Hive can coexist and work with other tools within the Hadoop ecosystem Uses practical example oriented scenarios to cover all the newly released features of Apache Hive 2 3 3 Book Description In this book we prepare you for your journey into big data by frstly introducing you to backgrounds in the big data domain alongwith the process of setting up and getting familiar with your Hive working environment Next the book guides you through discovering and transforming the values of big data with the help of examples It also hones your skills in using the Hive language in an effcient manner Toward the end the book focuses on advanced topics such as performance security and extensions in Hive which will guide you on exciting adventures on this worthwhile big data journey By the end of the book you will be familiar with Hive and able to work effeciently to find solutions to big data problems What you will learn Create and set up the Hive environment Discover how to use Hive's definition language to describe data Discover interesting data by joining and filtering datasets in Hive Transform data by using Hive sorting ordering and functions Aggregate and sample data in different ways Boost Hive query performance and enhance data security in Hive Customize Hive to vour needs by using user defined functions and integrate it with other tools Who this book is for If you are a data analyst developer or simply someone who wants to quickly get started with Hive to explore and analyze Big Data in Hadoop this is the book for you Since Hive is an SQL like language some previous experience with SQL will be useful to get the most out of this book

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