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# Real-World Hadoop



Ted Dunning & Ellen Friedman

# Real World Hadoop Ellen Friedman

**A Gutmann**



## **Real World Hadoop Ellen Friedman:**

*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

**Machine Learning for Decision Makers** Patanjali Kashyap, 2018-01-04 Take a deep dive into the concepts of machine learning as they apply to contemporary business and management You will learn how machine learning techniques are used to solve fundamental and complex problems in society and industry Machine Learning for Decision Makers serves as an excellent resource for establishing the relationship of machine learning with IoT big data and cognitive and cloud computing to give you an overview of how these modern areas of computing relate to each other This book introduces a collection of the most important concepts of machine learning and sets them in context with other vital technologies that decision makers need to know about These concepts span the process from envisioning the problem to applying machine learning techniques to your particular situation This discussion also provides an insight to help deploy the results to improve decision making The book uses case studies and jargon busting to help you grasp the theory of machine learning quickly You'll soon gain the big picture of machine learning and how it fits with other cutting edge IT services This knowledge will give you confidence in your decisions for the future of your business What You Will Learn Discover the machine learning big data and cloud and cognitive computing technology stack Gain insights into machine learning concepts and practices Understand business and enterprise decision making using machine learning Absorb machine learning best practices Who This Book Is For Managers tasked with making key decisions who want to learn how and when machine learning and related technologies can help them

*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      *Sharing Big Data Safely* Ted Dunning, Ellen Friedman, 2015-09-15 Many big data driven companies today are moving to protect certain types of data against intrusion leaks or unauthorized eyes But how do you lock down data while granting access to people who need to see it In this practical book authors Ted Dunning and Ellen Friedman offer two novel and practical solutions that you can implement right away Ideal for both technical and non technical decision makers group leaders developers and data scientists this book shows you how to Share original data in a controlled way so that different groups within your organization only see part of the whole You ll learn how to do this with the new open source SQL query engine Apache Drill Provide synthetic data that emulates the behavior of sensitive data This approach enables external advisors to work with you on projects involving data that you can t show them If you re intrigued by the synthetic data solution explore the log synth program that Ted Dunning developed as open source code available on GitHub along with how to instructions and tips for best practice You ll also get a collection of use cases Providing lock down security while safely sharing data is a significant challenge for a growing number of organizations With this book you ll discover new options to share data safely without sacrificing security      *Streaming Architecture* Ted Dunning, Ellen Friedman, 2016-05-10 More and more data driven companies are looking to adopt stream processing and streaming analytics

With this concise ebook you ll learn best practices for designing a reliable architecture that supports this emerging big data paradigm Authors Ted Dunning and Ellen Friedman Real World Hadoop help you explore some of the best technologies to handle stream processing and analytics with a focus on the upstream queuing or message passing layer To illustrate the effectiveness of these technologies this book also includes specific use cases Ideal for developers and non technical people alike this book describes Key elements in good design for streaming analytics focusing on the essential characteristics of the messaging layer New messaging technologies including Apache Kafka and MapR Streams with links to sample code Technology choices for streaming analytics Apache Spark Streaming Apache Flink Apache Storm and Apache Apex How stream based architectures are helpful to support microservices Specific use cases such as fraud detection and geo distributed data streams Ted Dunning is Chief Applications Architect at MapR Technologies and active in the open source community He currently serves as VP for Incubator at the Apache Foundation as a champion and mentor for a large number of projects and as committer and PMC member of the Apache ZooKeeper and Drill projects Ted is on Twitter as ted\_dunning Ellen Friedman a committer for the Apache Drill and Apache Mahout projects is a solutions consultant and well known speaker and author currently writing mainly about big data topics With a PhD in Biochemistry she has years of experience as a research scientist and has written about a variety of technical topics Ellen is on Twitter as Ellen\_Friedman

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

Sharing Big Data Safely Ted Dunning, Ellen Friedman, 2015-09-15 Many big data driven companies today are moving to protect certain types of data against intrusion leaks or unauthorized eyes But how do you lock down data while granting access to people who need to see it In this practical book authors Ted Dunning and Ellen Friedman offer two novel and practical solutions that you can implement right away Ideal for both technical and non technical decision makers group leaders developers and data scientists this book shows you how to Share original data in a controlled way so that different

groups within your organization only see part of the whole You ll learn how to do this with the new open source SQL query engine Apache Drill Provide synthetic data that emulates the behavior of sensitive data This approach enables external advisors to work with you on projects involving data that you can t show them If you re intrigued by the synthetic data solution explore the log synth program that Ted Dunning developed as open source code available on GitHub along with how to instructions and tips for best practice You ll also get a collection of use cases Providing lock down security while safely sharing data is a significant challenge for a growing number of organizations With this book you ll discover new options to share data safely without sacrificing security Real-World Hadoop Ellen Friedman, Ted Dunning,2015 Streaming Architecture Ted Dunning,2016 More and more data driven companies are looking to adopt stream processing and streaming analytics With this concise ebook you u2019ll learn best practices for designing a reliable architecture that supports this emerging big data paradigm Authors Ted Dunning and Ellen Friedman Real World Hadoop help you explore some of the best technologies to handle stream processing and analytics with a focus on the upstream queuing or message passing layer To illustrate the effectiveness of these technologies this book also includes specific use cases Ideal for developers and non technical people alike this book describes Key elements in good design for streaming analytics focusing on the essential characteristics of the messaging layer New messaging technologies including Apache Kafka and MapR Streams with links to sample code Technology choices for streaming analytics Apache Spark Streaming Apache Flink Apache Storm and Apache Apex How stream based architectures are helpful to support microservices Specific use cases such as fraud detection and geo distributed data streams Ted Dunning is Chief Applications Architect at MapR Technologies and active in the open source community He currently serves as VP for Incubator at the Apache Foundation as a champion and mentor for a large number of projects and as committer and PMC member of the Apache ZooKeeper and Drill projects Ted is on Twitter as ted\_dunning Ellen Friedman a committer for the Apache Drill and Apache Mahout projects is a solutions consultant and well known speaker and author currently writing mainly about big data topics With a PhD in Biochemistry she has years of experience as a research scientist and has written about a variety of technical topics Ellen is on Twitter as Ellen\_Friedman

**Practical Machine Learning** Ted Dunning,B. Ellen Friedman,2014 Annotation 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 settingsand 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 Youll 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 recommendersCollect user

data that tracks user actions rather than their ratings Predict what a user wants based on behavior by others using Mahout for 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 with dithering multimodal recommendation and other techniques

**Hadoop Application Architectures** Mark Grover, Ted Malaska, Jonathan Seidman, Gwen Shapira, 2015-06-30 Get expert guidance on architecting end to end data management solutions with Apache Hadoop While many sources explain how to use various components in the Hadoop ecosystem this practical book takes you through architectural considerations necessary to tie those components together into a complete tailored application based on your particular use case To reinforce those lessons the book's second section provides detailed examples of architectures used in some of the most commonly found Hadoop applications Whether you're designing a new Hadoop application or planning to integrate Hadoop into your existing data infrastructure Hadoop Application Architectures will skillfully guide you through the process This book covers Factors to consider when using Hadoop to store and model data Best practices for moving data in and out of the system Data processing frameworks including MapReduce Spark and Hive Common Hadoop processing patterns such as removing duplicate records and using windowing analytics Giraph GraphX and other tools for large graph processing on Hadoop Using workflow orchestration and scheduling tools such as Apache Oozie Near real time stream processing with Apache Storm Apache Spark Streaming and Apache Flume Architecture examples for clickstream analysis fraud detection and data warehousing

**Hadoop Real-World Solutions Cookbook** Tanmay Deshpande, 2016-03-31 Over 90 hands on recipes to help you learn and master the intricacies of Apache Hadoop 2 X YARN Hive Pig Oozie Flume Sqoop Apache Spark and Mahout About This Book Implement outstanding Machine Learning use cases on your own analytics models and processes Solutions to common problems when working with the Hadoop ecosystem Step by step implementation of end to end big data use cases Who This Book Is For Readers who have a basic knowledge of big data systems and want to advance their knowledge with hands on recipes What You Will Learn Installing and maintaining Hadoop 2 X cluster and its ecosystem Write advanced Map Reduce programs and understand design patterns Advanced Data Analysis using the Hive Pig and Map Reduce programs Import and export data from various sources using Sqoop and Flume Data storage in various file formats such as Text Sequential Parquet ORC and RC Files Machine learning principles with libraries such as Mahout Batch and Stream data processing using Apache Spark In Detail Big data is the current requirement Most organizations produce huge amount of data every day With the arrival of Hadoop like tools it has become easier for everyone to solve big data problems with great efficiency and at minimal cost Grasping Machine Learning techniques will help you greatly in building predictive models and using this data to make the right decisions for your organization Hadoop Real World Solutions Cookbook gives readers insights into learning and mastering big data via recipes The book not only clarifies most big data tools in the market but also provides best practices for using them The book provides recipes that are based on the latest

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Realistic simple code examples to solve problems at scale with Hadoop and related technologies **Hadoop Real World Solutions Cookbook** Jonathan R. Owens,2013 Realistic simple code examples to solve problems at scale with Hadoop and related technologies **Hadoop Real-World Solutions Cookbook Second Edition** Tanmay Deshpande,2016-03-29 Over 90 hands on recipes to help you learn and master the intricacies of Apache Hadoop 2 X YARN Hive Pig Oozie Flume Sqoop Apache Spark and MahoutAbout This Book Implement outstanding Machine Learning use cases on your own analytics models and processes Solutions to common problems when working with the Hadoop ecosystem Step by step implementation of end to end big data use cases Who This Book Is ForReaders who have a basic knowledge of big data systems and want to advance their knowledge with hands on recipes What You Will Learn Installing and maintaining Hadoop 2 X cluster and its ecosystem Write advanced Map Reduce programs and understand design patterns Advanced Data Analysis using the Hive Pig and Map Reduce programs Import and export data from various sources using Sqoop and Flume Data storage in various file formats such as Text Sequential Parquet ORC and RC Files Machine learning principles with libraries such as Mahout Batch and Stream data processing using Apache SparkIn DetailBig data is the current requirement Most organizations produce huge amount of data every day With the arrival of Hadoop like tools it has become easier for everyone to solve big data problems with great efficiency and at minimal cost Grasping Machine Learning techniques will help you greatly in building predictive models and using this data to make the right decisions for your organization Hadoop Real World Solutions Cookbook gives readers insights into learning and mastering big data via recipes The book not only clarifies most big data tools in the market but also provides best practices for using them The book provides recipes that are based on the latest versions of Apache Hadoop 2 X YARN Hive Pig Sqoop Flume Apache Spark Mahout and many more such ecosystem tools This real world solution cookbook is packed with handy recipes you can apply to your own everyday issues Each chapter provides in depth recipes that can be referenced easily This book provides detailed practices on the latest technologies such as YARN and Apache Spark Readers will be able to consider themselves as big data experts on completion of this book This guide is an invaluable tutorial if you are planning to implement a big data warehouse for your business Style and approachAn easy to follow guide

that walks you through world of big data Each tool in the Hadoop ecosystem is explained in detail and the recipes are placed in such a manner that readers can implement them sequentially Plenty of reference links are provided for advanced reading

**Hadoop Application Architectures** Mark Grover,2015 Get expert guidance on architecting end to end data management solutions with Apache Hadoop While many sources explain how to use various components in the Hadoop ecosystem this practical book takes you through architectural considerations necessary to tie those components together into a complete tailored application based on your particular use case To reinforce those lessons the book s second section provides detailed examples of architectures used in some of the most commonly found Hadoop applications Whether you re designing a new Hadoop application or planning to integrate Hadoop into your existing data infrastructure Hadoop Application Architectures will skillfully guide you through the process

**Big Data Analytics with Hadoop 3** Sridhar Alla,2018-05-31 Explore big data concepts platforms analytics and their applications using the power of Hadoop 3 Key Features Learn Hadoop 3 to build effective big data analytics solutions on premise and on cloud Integrate Hadoop with other big data tools such as R Python Apache Spark and Apache Flink Exploit big data using Hadoop 3 with real world examples Book Description Apache Hadoop is the most popular platform for big data processing and can be combined with a host of other big data tools to build powerful analytics solutions Big Data Analytics with Hadoop 3 shows you how to do just that by providing insights into the software as well as its benefits with the help of practical examples Once you have taken a tour of Hadoop 3 s latest features you will get an overview of HDFS MapReduce and YARN and how they enable faster more efficient big data processing You will then move on to learning how to integrate Hadoop with the open source tools such as Python and R to analyze and visualize data and perform statistical computing on big data As you get acquainted with all this you will explore how to use Hadoop 3 with Apache Spark and Apache Flink for real time data analytics and stream processing In addition to this you will understand how to use Hadoop to build analytics solutions on the cloud and an end to end pipeline to perform big data analysis using practical use cases By the end of this book you will be well versed with the analytical capabilities of the Hadoop ecosystem You will be able to build powerful solutions to perform big data analytics and get insight effortlessly What you will learn Explore the new features of Hadoop 3 along with HDFS YARN and MapReduce Get well versed with the analytical capabilities of Hadoop ecosystem using practical examples Integrate Hadoop with R and Python for more efficient big data processing Learn to use Hadoop with Apache Spark and Apache Flink for real time data analytics Set up a Hadoop cluster on AWS cloud Perform big data analytics on AWS using Elastic Map Reduce Who this book is for Big Data Analytics with Hadoop 3 is for you if you are looking to build high performance analytics solutions for your enterprise or business using Hadoop 3 s powerful features or you re new to big data analytics A basic understanding of the Java programming language is required

**Hadoop Real-World Solutions Cookbook** Mulhim Morcos,2014-11-03 Big data is a relative term describing a situation where the volume velocity and variety of data exceed an organization s storage or

compute capacity for accurate and timely decision making Big data is not a single technology but a combination of old and new technologies that helps companies gain actionable insight Therefore big data is the capability to manage a huge volume of disparate data at the right speed and within the right time frame to allow real time analysis and reaction As we note earlier in this chapter big data is typically broken down by three characteristics Volume How much data Velocity How fast that data is processed Variety The various types of data Although it s convenient to simplify big data into the three Vs it can be misleading and overly simplistic For example you may be managing a relatively small amount of very disparate complex data or you may be processing a huge volume of very simple data That simple data may be all structured or all unstructured Even more important is the fourth V veracity How accurate is that data in predicting business value Do the results of a big data analysis actually make sense Determining relevant data is key to delivering value from massive amounts of data However big data is defined less by volume which is a constantly moving target than by its ever increasing variety velocity variability and complexity

**A Hand Book on Hadoop : Real World Approach for Infinite Scalability** Dipayan Dev,2016-05-25      **Practical Data Science with Hadoop and Spark** Ofer Mendelevitch,Casey Stella,Douglas Eadline,2016-12-08 The Complete Guide to Data Science with Hadoop For Technical Professionals Businesspeople and Students Demand is soaring for professionals who can solve real data science problems with Hadoop and Spark Practical Data Science with Hadoop and Spark is your complete guide to doing just that Drawing on immense experience with Hadoop and big data three leading experts bring together everything you need high level concepts deep dive techniques real world use cases practical applications and hands on tutorials The authors introduce the essentials of data science and the modern Hadoop ecosystem explaining how Hadoop and Spark have evolved into an effective platform for solving data science problems at scale In addition to comprehensive application coverage the authors also provide useful guidance on the important steps of data ingestion data munging and visualization Once the groundwork is in place the authors focus on specific applications including machine learning predictive modeling for sentiment analysis clustering for document analysis anomaly detection and natural language processing NLP This guide provides a strong technical foundation for those who want to do practical data science and also presents business driven guidance on how to apply Hadoop and Spark to optimize ROI of data science initiatives Learn What data science is how it has evolved and how to plan a data science career How data volume variety and velocity shape data science use cases Hadoop and its ecosystem including HDFS MapReduce YARN and Spark Data importation with Hive and Spark Data quality preprocessing preparation and modeling Visualization surfacing insights from huge data sets Machine learning classification regression clustering and anomaly detection Algorithms and Hadoop tools for predictive modeling Cluster analysis and similarity functions Large scale anomaly detection NLP applying data science to human language

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