

# LEARNING HADOOP





# **Learning Hadoop**

Lei Meng

## **Learning Hadoop:**

**Learn Hadoop in 24 Hours** Alex Nordeen, 2020-09-15 Hadoop has changed the way large data sets are analyzed stored transferred and processed At such low cost it provides benefits like supports partial failure fault tolerance consistency scalability flexible schema and so on It also supports cloud computing More and more number of individuals are looking forward to mastering their Hadoop skills While initiating with Hadoop most users are unsure about how to proceed with Hadoop They are not aware of what are the pre requisite or data structure they should be familiar with Or How to make the most efficient use of Hadoop and its ecosystem To help them with all these queries and other issues this e book is designed The book gives insights into many of Hadoop libraries and packages that are not known to many Big data Analysts and Architects The e book also tells you about Hadoop MapReduce and HDFS The example in the e book is well chosen and demonstrates how to control Hadoop ecosystem through various shell commands With this book users will gain expertise in Hadoop technology and its related components The book leverages you with the best Hadoop content with the lowest price range After going through this book you will also acquire knowledge on Hadoop Security required for Hadoop Certifications like CCAH and CCDH It is a definite guide to Hadoop Table Of Content Chapter 1 What Is Big Data 1 Examples Of Big Data 2 Categories Of Big Data 3 Characteristics Of Big Data 4 Advantages Of Big Data Processing Chapter 2 Introduction to Hadoop 1 Components of Hadoop 2 Features Of Hadoop 3 Network Topology In Hadoop Chapter 3 Hadoop Installation Chapter 4 HDFS 1 Read Operation 2 Write Operation 3 Access HDFS using IAVA API 4 Access HDFS Using COMMAND LINE INTERFACE Chapter 5 Mapreduce 1 How MapReduce works 2 How MapReduce Organizes Work Chapter 6 First Program 1 Understanding MapReducer Code 2 Explanation of SalesMapper Class 3 Explanation of SalesCountryReducer Class 4 Explanation of SalesCountryDriver Class Chapter 7 Counters Joins In MapReduce 1 Two types of counters 2 MapReduce Join Chapter 8 MapReduce Hadoop Program To Join Data Chapter 9 Flume and Sgoop 1 What is SOOOP in Hadoop 2 What is FLUME in Hadoop 3 Some Important features of FLUME Chapter 10 Pig 1 Introduction to PIG 2 Create your First PIG Program 3 PART 1 Pig Installation 4 PART 2 Pig Demo Chapter 11 OOZIE 1 What is OOZIE 2 How does OOZIE work 3 Example Workflow Diagram 4 Oozie workflow application 5 Why use Oozie 6 FEATURES OF OOZIE Learning Hadoop 2 Garry Turkington, Gabriele Modena, 2015-02-13 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 You are expected to be familiar with the Unix Linux command line interface and have some experience with the Java programming language Familiarity with Hadoop would be a plus **Learning Cascading** Michael Covert, Victoria Loewengart, 2015-05-29 This book is intended for software developers system architects and analysts big data project managers and data scientists who wish to deploy big data solutions using the Cascading framework You must have a basic understanding of the big data paradigm and should be familiar with Java development techniques *R for Cloud Computing* A Ohri,2014-11-14 R for Cloud Computing looks at

some of the tasks performed by business analysts on the desktop PC era and helps the user navigate the wealth of information in R and its 4000 packages as well as transition the same analytics using the cloud With this information the reader can select both cloud vendors and the sometimes confusing cloud ecosystem as well as the R packages that can help process the analytical tasks with minimum effort cost and maximum usefulness and customization The use of Graphical User Interfaces GUI and Step by Step screenshot tutorials is emphasized in this book to lessen the famous learning curve in learning R and some of the needless confusion created in cloud computing that hinders its widespread adoption This will help you kick start analytics on the cloud including chapters on both cloud computing R common tasks performed in analytics including the current focus and scrutiny of Big Data Analytics setting up and navigating cloud providers Readers are exposed to a breadth of cloud computing choices and analytics topics without being buried in needless depth The included references and links allow the reader to pursue business analytics on the cloud easily It is aimed at practical analytics and is easy to transition from existing analytical set up to the cloud on an open source system based primarily on R This book is aimed at industry practitioners with basic programming skills and students who want to enter analytics as a profession Note the scope of the book is neither statistical theory nor graduate level research for statistics but rather it is for business analytics practitioners It will also help researchers and academics but at a practical rather than conceptual level The R statistical software is the fastest growing analytics platform in the world and is established in both academia and corporations for robustness reliability and accuracy The cloud computing paradigm is firmly established as the next generation of computing from microprocessors to desktop PCs to cloud 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 Hadoop 2 Ouick-Start Guide Douglas Eadline, 2015-10-28 Get Started Fast with Apache Hadoop 2 YARN and Today s Hadoop Ecosystem With Hadoop 2 x and YARN Hadoop moves beyond MapReduce to become practical for virtually any type of data processing Hadoop 2 x and the Data Lake concept represent a radical shift away from conventional approaches to data usage and storage Hadoop 2 x installations offer unmatched scalability and breakthrough extensibility that supports new and existing Big Data analytics processing methods and models Hadoop 2 Quick Start Guide is the first easy accessible guide to Apache Hadoop 2 x YARN and the modern Hadoop ecosystem Building on his unsurpassed experience teaching Hadoop and Big Data author Douglas Eadline covers all the basics you need to know to install and use Hadoop 2 on personal computers or servers and to navigate the powerful technologies that complement it Eadline concisely introduces and explains every key Hadoop 2 concept tool and service illustrating each with a simple beginning to end example and identifying trustworthy up to date resources for learning more This guide is ideal if you want to learn about Hadoop 2 without getting mired in technical details Douglas Eadline will bring you up to speed guickly whether you re a user admin devops specialist programmer architect analyst or data scientist Coverage Includes Understanding what Hadoop 2 and YARN do and how they improve on Hadoop 1 with MapReduce Understanding Hadoop based Data Lakes versus RDBMS Data Warehouses Installing Hadoop 2 and core services on Linux machines virtualized sandboxes or clusters Exploring the Hadoop Distributed File System HDFS Understanding the essentials of MapReduce and YARN application programming Simplifying programming and data movement with Apache Pig Hive Sqoop Flume Oozie and HBase Observing application progress controlling jobs and managing workflows Managing Hadoop efficiently with Apache Ambari including recipes for HDFS to NFSv3 gateway HDFS snapshots and YARN configuration Learning basic Hadoop 2 troubleshooting and installing Apache Hue and Apache Spark 
Deep Learning and Parallel Computing Environment for Bioengineering Systems Arun Kumar Sangaiah, 2019-07-26 Deep Learning and Parallel Computing Environment for Bioengineering Systems delivers a significant forum for the technical advancement of deep learning in parallel computing environment across bio engineering diversified domains and its applications Pursuing an interdisciplinary approach it focuses on methods used to identify and acquire valid potentially useful knowledge sources Managing the gathered knowledge and applying it to multiple domains including health care social networks mining recommendation systems image processing pattern recognition and predictions using deep learning paradigms is the major strength of this book This book integrates the core ideas of deep learning and its applications in bio engineering application domains to be accessible to all scholars and academicians The proposed techniques and concepts in this book can be extended in future to accommodate changing business organizations needs as well as practitioners innovative ideas Presents novel in depth research contributions from a methodological application perspective in understanding the fusion of deep machine learning paradigms and their capabilities in solving a diverse range of problems Illustrates the state of the art and recent developments in the new theories

and applications of deep learning approaches applied to parallel computing environment in bioengineering systems Provides concepts and technologies that are successfully used in the implementation of today s intelligent data centric critical systems and multi media Cloud Big data Big Data Analytics with R Simon Walkowiak, 2016-07-29 Utilize R to uncover hidden patterns in your Big Data About This Book Perform computational analyses on Big Data to generate meaningful results Get a practical knowledge of R programming language while working on Big Data platforms like Hadoop Spark H2O and SOL NoSQL databases Explore fast streaming and scalable data analysis with the most cutting edge technologies in the market Who This Book Is For This book is intended for Data Analysts Scientists Data Engineers Statisticians Researchers who want to integrate R with their current or future Big Data workflows It is assumed that readers have some experience in data analysis and understanding of data management and algorithmic processing of large quantities of data however they may lack specific skills related to R What You Will Learn Learn about current state of Big Data processing using R programming language and its powerful statistical capabilities Deploy Big Data analytics platforms with selected Big Data tools supported by R in a cost effective and time saving manner Apply the R language to real world Big Data problems on a multi node Hadoop cluster e q electricity consumption across various socio demographic indicators and bike share scheme usage Explore the compatibility of R with Hadoop Spark SQL and NoSQL databases and H2O platform In Detail Big Data analytics is the process of examining large and complex data sets that often exceed the computational capabilities R is a leading programming language of data science consisting of powerful functions to tackle all problems related to Big Data processing The book will begin with a brief introduction to the Big Data world and its current industry standards With introduction to the R language and presenting its development structure applications in real world and its shortcomings Book will progress towards revision of major R functions for data management and transformations Readers will be introduce to Cloud based Big Data solutions e g Amazon EC2 instances and Amazon RDS Microsoft Azure and its HDInsight clusters and also provide guidance on R connectivity with relational and non relational databases such as MongoDB and HBase etc It will further expand to include Big Data tools such as Apache Hadoop ecosystem HDFS and MapReduce frameworks Also other R compatible tools such as Apache Spark its machine learning library Spark MLlib as well as H2O Style and approach This book will serve as a practical guide to tackling Big Data problems using R programming language and its statistical environment Each section of the book will present you with concise and easy to follow steps on how to process transform and analyse large data sets **Practical Machine Learning** Sunila Gollapudi, 2016-01-30 Tackle the real world complexities of modern machine learning with innovative cutting edge techniques About This Book Fully coded working examples using a wide range of machine learning libraries and tools including Python R Julia and Spark Comprehensive practical solutions taking you into the future of machine learning Go a step further and integrate your machine learning projects with Hadoop Who This Book Is For This book has been created for data scientists who want to see machine learning in action and explore

its real world application With guidance on everything from the fundamentals of machine learning and predictive analytics to the latest innovations set to lead the big data revolution into the future this is an unmissable resource for anyone dedicated to tackling current big data challenges Knowledge of programming Python and R and mathematics is advisable if you want to get started immediately What You Will Learn Implement a wide range of algorithms and techniques for tackling complex data Get to grips with some of the most powerful languages in data science including R Python and Julia Harness the capabilities of Spark and Hadoop to manage and process data successfully Apply the appropriate machine learning technique to address real world problems Get acquainted with Deep learning and find out how neural networks are being used at the cutting edge of machine learning Explore the future of machine learning and dive deeper into polyglot persistence semantic data and more In Detail Finding meaning in increasingly larger and more complex datasets is a growing demand of the modern world Machine learning and predictive analytics have become the most important approaches to uncover data gold mines Machine learning uses complex algorithms to make improved predictions of outcomes based on historical patterns and the behaviour of data sets Machine learning can deliver dynamic insights into trends patterns and relationships within data immensely valuable to business growth and development This book explores an extensive range of machine learning techniques uncovering hidden tricks and tips for several types of data using practical and real world examples While machine learning can be highly theoretical this book offers a refreshing hands on approach without losing sight of the underlying principles Inside a full exploration of the various algorithms gives you high quality guidance so you can begin to see just how effective machine learning is at tackling contemporary challenges of big data This is the only book you need to implement a whole suite of open source tools frameworks and languages in machine learning We will cover the leading data science languages Python and R and the underrated but powerful Julia as well as a range of other big data platforms including Spark Hadoop and Mahout Practical Machine Learning is an essential resource for the modern data scientists who want to get to grips with its real world application With this book you will not only learn the fundamentals of machine learning but dive deep into the complexities of real world data before moving on to using Hadoop and its wider ecosystem of tools to process and manage your structured and unstructured data You will explore different machine learning techniques for both supervised and unsupervised learning from decision trees to Naive Bayes classifiers and linear and clustering methods you will learn strategies for a truly advanced approach to the statistical analysis of data The book also explores the cutting edge advancements in machine learning with worked examples and guidance on deep learning and reinforcement learning providing you with practical demonstrations and samples that help take the theory and mystery out of even the most advanced machine learning methodologies Style and approach A practical data science tutorial designed to give you an insight into the practical application of machine learning this book takes you through complex concepts and tasks in an accessible way Featuring information on a wide range of data science techniques Practical Machine Learning is a

comprehensive data science resource 2nd International Conference on Cloud Computing and Computer Networks Lei Meng, 2025-01-02 The book consists of peer reviewed and presented papers of the 2nd International Conference on Cloud Computing and Computer Network CCCN 2024 which took place in Singapore during April 19 21 2024 The conference is held annually to gather scholars researchers and engineers working in the field of cloud computing to share their newest research findings and results discuss and exchange their thoughts and information and learn about cutting edge technologies The papers are solicited on a broad range of topics including cloud computing and semantic web technologies cloud computing models simulations and designs cloud computing applications cloud computing services mobile cloud networking service oriented architecture in cloud computing Case studies and theories in cloud computing are also explored as well as cloud storage and file systems Blockchain for emerging networks network management measurement and analysis and network virtualization Presents papers from the International Conference on Cloud Computing and Computer Network CCCN 2024 Includes topics such as semantic web technologies cloud applications and cloud computing architecture Relevant to academics researchers students and professionals in cloud computing and computer networks Future Trends of HPC in a Disruptive Scenario L. Grandinetti, G.R. Joubert, K. Michielsen, 2019-09-27 The realization that the use of components off the shelf COTS could reduce costs sparked the evolution of the massive parallel computing systems available today The main problem with such systems is the development of suitable operating systems algorithms and application software that can utilise the potential processing power of large numbers of processors As a result systems comprising millions of processors are still limited in the applications they can efficiently solve Two alternative paradigms that may offer a solution to this problem are Quantum Computers QC and Brain Inspired Computers BIC This book presents papers from the 14th edition of the biennial international conference on High Performance Computing From Clouds and Big Data to Exascale and Beyond held in Cetraro Italy from 2 6 July 2018 It is divided into 4 sections covering data science quantum computing high performance computing and applications The papers presented during the workshop covered a wide spectrum of topics on new developments in the rapidly evolving supercomputing field including QC and BIC and a selection of contributions presented at the workshop are included in this volume In addition two papers presented at a workshop on Brain Inspired Computing in 2017 and an overview of work related to data science executed by a number of universities in the USA parts of which were presented at the 2018 and previous workshops are also included The book will be of interest to all those whose work involves high performance computing Artificial Intelligence and Blockchain in Industry 4.0 Rohit Sharma, Rajendra Prasad Mahapatra, Gwanggil Jeon, 2023-10-26 The book addresses the challenges in designing blockchain based secured solutions for Industry 4 0 applications using artificial intelligence It further provides a comparative analysis of various advanced security approaches such as edge computing cybersecurity and cloud computing in the realm of information technology This book Address the challenges in designing blockchain based secured solutions for Industry 4 0

applications using artificial intelligence Provides a comparative analysis of various advanced security approaches such as edge computing cybersecurity and cloud computing in the realm of information technology Discusses the evolution of blockchain and artificial intelligence technology from fundamental theories to practical aspects Illustrates the most recent research solutions that handle the security and privacy threats while considering the resource constrained in Industry 4 0 devices Showcases the methods and tools necessary for intelligent data analysis and gives solutions to problems resulting from automated data collection The text aims to fill the gap between the theories of blockchain and its practical application in business government and defense among other areas It further highlights the challenges associated with the use of blockchain for various industry 4 0 applications such as data analytics software defined networks cyber physical systems drones and cybersecurity The text is primarily written for senior undergraduate graduate students and academic researchers in the fields of electrical engineering electronics and communication engineering computer engineering manufacturing engineering and industrial engineering Proceedings of the XIV INTERNATIONAL SYMPOSIUM SYMORG 2014 Aleksandar Marković, Slađana Barjaktarović Rakočević, 2014-06-05 Artificial Intelligence with Python Alberto Artasanchez, Prateek Joshi, 2020-01-31 New edition of the bestselling guide to artificial intelligence with Python updated to Python 3 x with seven new chapters that cover RNNs AI and Big Data fundamental use cases chatbots and more Key FeaturesCompletely updated and revised to Python 3 xNew chapters for AI on the cloud recurrent neural networks deep learning models and feature selection and engineeringLearn more about deep learning algorithms machine learning data pipelines and chatbotsBook Description Artificial Intelligence with Python Second Edition is an updated and expanded version of the bestselling guide to artificial intelligence using the latest version of Python 3 x Not only does it provide you an introduction to artificial intelligence this new edition goes further by giving you the tools you need to explore the amazing world of intelligent apps and create your own applications This edition also includes seven new chapters on more advanced concepts of Artificial Intelligence including fundamental use cases of AI machine learning data pipelines feature selection and feature engineering AI on the cloud the basics of chatbots RNNs and DL models and AI and Big Data Finally this new edition explores various real world scenarios and teaches you how to apply relevant AI algorithms to a wide swath of problems starting with the most basic AI concepts and progressively building from there to solve more difficult challenges so that by the end you will have gained a solid understanding of and when best to use these many artificial intelligence techniques What you will learnUnderstand what artificial intelligence machine learning and data science areExplore the most common artificial intelligence use casesLearn how to build a machine learning pipelineAssimilate the basics of feature selection and feature engineeringIdentify the differences between supervised and unsupervised learningDiscover the most recent advances and tools offered for AI development in the cloudDevelop automatic speech recognition systems and chatbotsApply AI algorithms to time series dataWho this book is for The intended audience for this book is Python developers

who want to build real world Artificial Intelligence applications Basic Python programming experience and awareness of machine learning concepts and techniques is mandatory Artificial Intelligence Algorithms using Python Dr Gauri M. Dhopavkar, 2024-12-31 Artificial Intelligence Algorithms Using Python the fundamentals and advanced concepts of AI algorithms through practical Python implementations Covering machine learning deep learning natural language processing and reinforcement learning this provides a hands on approach to building intelligent systems It delves into algorithm design optimization techniques and real world applications making it ideal for students researchers and professionals With a strong focus on code driven learning it enables readers to develop AI models efficiently using Python libraries such as Tensor Flow scikit learn and PyTorch bridging the gap between theoretical concepts and practical implementation the 2nd International Conference on Cognitive and Intelligent Computing Amit Kumar, Gheorghita Ghinea, Suresh Merugu, 2023-09-26 This book includes original peer reviewed articles from the 2nd International Conference on Cognitive Intelligent Computing ICCIC 2022 held at Vasavi College of Engineering Hyderabad India It covers the latest trends and developments in areas of cognitive computing intelligent computing machine learning smart cities IoT artificial intelligence cyber physical systems cybernetics data science neural network and cognition This book addresses the comprehensive nature of computational intelligence cognitive computing AI ML and DL to emphasize its character in modeling identification optimization prediction forecasting and control of future intelligent systems Submissions are original unpublished and present in depth fundamental research contributions either from a methodological application perspective in understanding artificial intelligence and machine learning approaches and their capabilities in solving diverse range of problems in industries and its real world applications Big Data: Concepts, Methodologies, Tools, and Applications Management Association, Information Resources, 2016-04-20 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 Big Data Concepts Methodologies Tools and Applications is a multi volume compendium of research based perspectives and solutions within the realm of large scale and complex data sets Taking a multidisciplinary approach this publication presents exhaustive coverage of crucial topics in the field of big data including diverse applications storage solutions analysis techniques and methods for searching and transferring large data sets in addition to security issues Emphasizing essential research in the field of data science this publication is an ideal reference source for data analysts IT professionals researchers and academics Artificial Intelligence: Concepts, Methodologies, Tools, and Applications Management Association, Information Resources, 2016-12-12 Ongoing advancements in modern technology have led to significant developments in artificial intelligence With the numerous applications available it becomes imperative to conduct research

Management in the Era of Big Data Joanna Paliszkiewicz, 2020-06-18 This book is a wonderful collection of chapters that posits how managers need to cope in the Big Data era It highlights many of the emerging developments in technologies applications and trends related to management s needs in this Big Data era Dr Jay Liebowitz Harrisburg University of Science and Technology This book presents some meaningful work on Big Data analytics and its applications Each chapter generates helpful guidance to the readers on Big Data analytics and its applications challenges and prospects that is necessary for organizational strategic direction Dr Alex Koohang Middle Georgia State University Big Data is a concept that has caught the attention of practitioners academicians and researchers Big Data offers organizations the possibility of gaining a competitive advantage by managing collecting and analyzing massive amounts of data As the promises and challenges posed by Big Data have increased over the past decade significant issues have developed regarding how data can be used for improving management Big Data can be understood as large amounts of data generated by the Internet and a variety of connected smart devices and sensors This book discusses the main challenges posed by Big Data in a manner relevant to both practitioners and scholars It examines how companies can leverage Big Data analytics to act and optimize the business This book brings together the theory and practice of management in the era of Big Data It offers a look at the current state of Big Data including a comprehensive overview of both research and practical applications By bringing together conceptual thinking and empirical research on the nature meaning and development of Big Data in management this book unifies research on Big Data in management to stimulate new directions for academic investigation as well as practice

Uncover the mysteries within Explore with is enigmatic creation, **Learning Hadoop**. This downloadable ebook, shrouded in suspense, is available in a PDF format ( PDF Size: \*). Dive into a world of uncertainty and anticipation. Download now to unravel the secrets hidden within the pages.

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# **Learning Hadoop Introduction**

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