Data-Intensive Text Processing with MapReduce

Jimmy Lin
Chris Dyer

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Tom E. White

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Data-Intensive Text Processing with MapReduce Jimmy Lin,Chris Dyer,2010-10-10 Our world is being revolutionized by data driven methods access to large amounts of data has generated new insights and opened exciting new opportunities in commerce science and computing applications Processing the enormous quantities of data necessary for these advances requires large clusters making distributed computing paradigms more crucial than ever MapReduce is a programming model for expressing distributed computations on massive datasets and an execution framework for large scale data processing on clusters of commodity servers The programming model provides an easy to understand abstraction for designing scalable algorithms while the execution framework transparently handles many system level details ranging from scheduling to synchronization to fault tolerance This book focuses on MapReduce algorithm design with an emphasis on text processing algorithms common in natural language processing information retrieval and machine learning We introduce the notion of MapReduce design patterns which represent general reusable solutions to commonly occurring problems across a variety of problem domains This book not only intends to help the reader think in MapReduce but also discusses limitations of the programming model as well Table of Contents Introduction MapReduce Basics MapReduce Algorithm Design Inverted Indexing for Text Retrieval Graph Algorithms EM Algorithms for Text Processing Closing Remarks **Hadoop: The Definitive Guide** Tom White,2012-05-10 Ready to unlock the power of your data With this comprehensive guide you ll learn how to build and maintain reliable scalable distributed systems with Apache Hadoop This book is ideal for programmers looking to analyze datasets of any size and for administrators who want to set up and run Hadoop clusters You ll find illuminating case studies that demonstrate how Hadoop is used to solve specific problems This third edition covers recent changes to Hadoop including material on the new MapReduce API as well as MapReduce 2 and its more flexible execution model YARN Store large datasets with the Hadoop Distributed File System HDFS Run distributed computations with MapReduce Use Hadoop s data and I O building blocks for compression data integrity serialization including Avro and persistence Discover common pitfalls and advanced features for writing real world MapReduce programs Design build and administer a dedicated Hadoop cluster or run Hadoop in the cloud Load data from relational databases into HDFS using Sqoop Perform large scale data processing with the Pig query language Analyze datasets with Hive Hadoop s data warehousing system Take advantage of HBase for structured and semi structured data and ZooKeeper for building distributed systems **Data Algorithms** Mahmoud Parsian,2015-07-13 If you are ready to dive into the MapReduce framework for processing large datasets this practical book takes you step by step through the algorithms and tools you need to build distributed MapReduce applications with Apache Hadoop or Apache Spark Each chapter provides a recipe for solving a massive computational problem such as building a recommendation system You ll learn how to implement the appropriate MapReduce solution with code that you can use in your projects Dr Mahmoud Parsian covers basic design patterns

optimization techniques and data mining and machine learning solutions for problems in bioinformatics genomics statistics and social network analysis This book also includes an overview of MapReduce Hadoop and Spark Topics include Market basket analysis for a large set of transactions Data mining algorithms K means KNN and Naive Bayes Using huge genomic data to sequence DNA and RNA Naive Bayes theorem and Markov chains for data and market prediction Recommendation algorithms and pairwise document similarity Linear regression Cox regression and Pearson correlation Allelic frequency and mining DNA Social network analysis recommendation systems counting triangles sentiment analysis *Hadoop* Tom E. White,2015 Offers information on how to build and maintain reliable scalable distributed systems with Apache Hadoop covering such topics as MapReduce HDFS YARN Avro for data serialization Parquet for nested data and data ingestion tools Flume and Sqoop **Rising Threats in Expert Applications and Solutions** Vijay Singh Rathore,Nilanjan Dey,Vincenzo Piuri,Rosalina Babo,Zdzislaw Polkowski,João Manuel R. S. Tavares,2020-10-01 This book presents high quality peer reviewed papers from the FICR International Conference on Rising Threats in Expert Applications and Solutions 2020 held at IIS University Jaipur Rajasthan India on January 17 19 2020 Featuring innovative ideas from researchers academics industry professionals and students the book covers a variety of topics including expert applications and artificial intelligence machine learning advanced web technologies like IoT big data and cloud computing in expert applications information and cybersecurity threats and solutions multimedia applications in forensics security and intelligence advances in app development management practices for expert applications and social and ethical aspects of expert applications in applied sciences **Synthesis Lectures on Human Language Technologies : Data-Intensive Text Processing with MapReduce** Chris Dyer, *Machine Learning in Action* Peter Harrington,2012-04-03 Summary Machine Learning in Action is unique book that blends the foundational theories of machine learning with the practical realities of building tools for everyday data analysis You ll use the flexible Python programming language to build programs that implement algorithms for data classification forecasting recommendations and higher level features like summarization and simplification About the Book A machine is said to learn when its performance improves with experience Learning requires algorithms and programs that capture data and ferret out the interestingor useful patterns Once the specialized domain of analysts and mathematicians machine learning is becoming a skill needed by many Machine Learning in Action is a clearly written tutorial for developers It avoids academic language and takes you straight to the techniques you ll use in your day to day work Many Python examples present the core algorithms of statistical data processing data analysis and data visualization in code you can reuse You ll understand the concepts and how they fit in with tactical tasks like classification forecasting recommendations and higher level features like summarization and simplification Readers need no prior experience with machine learning or statistical processing Familiarity with Python is helpful Purchase of the print book comes with an offer of a free PDF ePub and Kindle eBook from Manning Also available is all code from the book What s Inside A no nonsense

introduction Examples showing common ML tasks Everyday data analysis Implementing classic algorithms like Apriori and Adaboos Table of Contents PART 1 CLASSIFICATION Machine learning basics Classifying with k Nearest Neighbors Splitting datasets one feature at a time decision trees Classifying with probability theory na ve Bayes Logistic regression Support vector machines Improving classification with the AdaBoost meta algorithm PART 2 FORECASTING NUMERIC VALUES WITH REGRESSION Predicting numeric values regression Tree based regression PART 3 UNSUPERVISED LEARNING Grouping unlabeled items using k means clustering Association analysis with the Apriori algorithm Efficiently finding frequent itemsets with FP growth PART 4 ADDITIONAL TOOLS Using principal component analysis to simplify data Simplifying data with the singular value decomposition Big data and MapReduce *Data-intensive Systems* Tomasz Wiktorski,2019-01-01 Data intensive systems are a technological building block supporting Big Data and Data Science applications This book familiarizes readers with core concepts that they should be aware of before continuing with independent work and the more advanced technical reference literature that dominates the current landscape The material in the book is structured following a problem based approach This means that the content in the chapters is focused on developing solutions to simplified but still realistic problems using data intensive technologies and approaches The reader follows one reference scenario through the whole book that uses an open Apache dataset The origins of this volume are in lectures from a master s course in Data intensive Systems given at the University of Stavanger Some chapters were also a base for guest lectures at Purdue University and Lodz University of Technology *Handbook of Data Intensive Computing* Borko Furht,Armando Escalante,2011-12-10 Data Intensive Computing refers to capturing managing analyzing and understanding data at volumes and rates that push the frontiers of current technologies The challenge of data intensive computing is to provide the hardware architectures and related software systems and techniques which are capable of transforming ultra large data into valuable knowledge Handbook of Data Intensive Computing is written by leading international experts in the field Experts from academia research laboratories and private industry address both theory and application Data intensive computing demands a fundamentally different set of principles than mainstream computing Data intensive applications typically are well suited for large scale parallelism over the data and also require an extremely high degree of fault tolerance reliability and availability Real world examples are provided throughout the book Handbook of Data Intensive Computing is designed as a referencefor practitioners and researchers including programmers computer and system infrastructure designers and developers This book can also be beneficial for business managers entrepreneurs and investors **MapReduce Design Patterns** Donald Miner,Adam Shook,2012-11-21 Until now design patterns for the MapReduce framework have been scattered among various research papers blogs and books This handy guide brings together a unique collection of valuable MapReduce patterns that will save you time and effort regardless of the domain language or development framework you re using Each pattern is explained in context with pitfalls and caveats clearly

identified to help you avoid common design mistakes when modeling your big data architecture This book also provides a complete overview of MapReduce that explains its origins and implementations and why design patterns are so important All code examples are written for Hadoop Summarization patterns get a top level view by summarizing and grouping data Filtering patterns view data subsets such as records generated from one user Data organization patterns reorganize data to work with other systems or to make MapReduce analysis easier Join patterns analyze different datasets together to discover interesting relationships Metapatterns piece together several patterns to solve multi stage problems or to perform several analytics in the same job Input and output patterns customize the way you use Hadoop to load or store data A clear exposition of MapReduce programs for common data processing patterns this book is indespensible for anyone using Hadoop Tom White author of Hadoop The Definitive Guide   **Secure Computation in the Cloud Using MapReduce** James Dyer,2018   **Optimizing the Efficiency of Data-intensive Data Mashups Using Map-Reduce** Sunayana Sarangi,2017   **Developing a Scalable Data-Intensive Text Processing Application with Python and Cassandra** Gregor-Patrick Heine,2018 Big Data Anwendungen werden immer wichtiger Seitens Business Management besteht jedoch nur sehr limitiertes technisches Verst ndnis Die vorliegende Arbeit verfolgt einen Bottom Up Ansatz zur raschen Entwicklung eines Prototyps der Twitter streams Python text processing und Cassandra Speichermethoden miteinander verbindet In der Arbeit werden drei Ergebnisse pr sentiert 1 Das Vergleichen von Schreibmethoden bez glich Ausf hrungsgeschwindigkeit 2 Die Code Ausf hrungsbeschleunigung durch Multiprocessing oder Multithreading Daten Parallelisierung sowie nebenl ufigem Datenbankzugriff 3 Die berwachung der ffentlichen Meinung wird basierend auf themenspezifischen Worth ufigkeiten demonstriert Big data and NoSQL databases have increased in prominence Technical understanding however is somewhat limited with regards to business management This paper presents a bottom up rapid prototype development approach that combines Twitter streams Python text processing and Cassandra storage methods The results of this paper are threefold 1 Persisting methods are compared with regards to execution times 2 Code execution runtime speedup via multiprocessing or multithreading data parallelization and concurrent database access is demonstrated 3 Public opinion monitoring through topic related word convergence is exemplified   An Extensible and Scalable Pilot-MapReduce Framework for Data Intensive Applications on Distributed Cyberinfrastructure Pradeep Kumar Mantha,2012   Data Intensive Query Processing for Semantic Web Data Using Hadoop and Mapreduce Mohammad Farhan Husain,University of Texas at Dallas. Graduate Program in Computer Science,2011 Semantic Web is an emerging area to augment human reasoning Various technologies are being developed in this arena which have been standardized by the World Wide Web Consortium W3C One such standard is the Resource Description Framework RDF Semantic Web technologies can be utilized to build efficient and scalable systems for Cloud Computing With the explosion of semantic web technologies large RDF graphs are common place This poses significant challenges for the storage and retrieval of RDF graphs Current frameworks do not scale for large RDF

graphs and as a result do not address these challenges In this dissertation we describe a framework that we built using Hadoop an open source distributed file system supporting MapReduce programming paradigm to store and retrieve large numbers of RDF triples by exploiting the cloud computing paradigm We describe a scheme to store RDF data in Hadoop Distributed File System SPARQL SPARQL Protocol and RDF Query Language is a language to query RDF data We present an algorithm which can rewrite some SPARQL queries to equivalent simpler ones leveraging the storage scheme More than one Hadoop job the smallest unit of execution in Hadoop may be needed to answer a query because a single triple pattern in a query cannot simultaneously take part in more than one join in a single Hadoop job To determine the jobs we present multiple algorithms based on greedy and exhaustive search approach to generate query plan to answer a SPARQL query We extend those algorithms to generate query plans for complex SPARQL queries with OPTIONAL blocks We use Hadoop s MapReduce framework to answer the queries Our results show that we can store large RDF graphs in Hadoop clusters built with cheap commodity class hardware Furthermore we show that our framework is scalable and efficient and can handle large amounts of RDF data unlike traditional approaches

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