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Data-Intensive Text Processing with MapReduce

Jimmy Lin
Chris Dyer

*Synthesizing Large-Scale Data
Processing Languages and Technologies*

Editorial Board: David Patterson

Data Intensive Text Processing With Mapreduce Chris Dyer

Shay Cohen



Data Intensive Text Processing With Mapreduce Chris Dyer:

Data-Intensive Text Processing with MapReduce Jimmy Lin,Chris Dyer,2022-05-31 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 Statistical Significance Testing for Natural Language Processing Rotem Dror,Lotem Peled-Cohen,Segev Shlomov,Roi Reichart,2022-06-01 Data driven experimental analysis has become the main evaluation tool of Natural Language Processing NLP algorithms In fact in the last decade it has become rare to see an NLP paper particularly one that proposes a new algorithm that does not include extensive experimental analysis and the number of involved tasks datasets domains and languages is constantly growing This emphasis on empirical results highlights the role of statistical significance testing in NLP research If we as a community rely on empirical evaluation to validate our hypotheses and reveal the correct language processing mechanisms we better be sure that our results are not coincidental The goal of this book is to discuss the main aspects of statistical significance testing in NLP Our guiding assumption throughout the book is that the basic question NLP researchers and engineers deal with is whether or not one algorithm can be considered better than another one This question drives the field forward as it allows the constant progress of developing better technology for language processing challenges In practice researchers and engineers would like to draw the right conclusion from a limited set of experiments and this conclusion should hold for other experiments with datasets they do not have at their disposal or that they cannot perform due to limited time and resources The book hence discusses the opportunities and challenges in using statistical significance testing in NLP from the point of view of experimental comparison between two algorithms We cover topics such as choosing an appropriate significance test for the major NLP tasks dealing with the unique aspects of significance testing for non convex deep neural networks accounting for a large number of comparisons between two NLP algorithms in a statistically valid manner multiple

hypothesis testing and finally the unique challenges yielded by the nature of the data and practices of the field *Discourse Processing* Manfred Stede, 2022-06-01 Discourse Processing here is framed as marking up a text with structural descriptions on several levels which can serve to support many language processing or text mining tasks We first explore some ways of assigning structure on the document level the logical document structure as determined by the layout of the text its genre specific content structure and its breakdown into topical segments Then the focus moves to phenomena of local coherence We introduce the problem of coreference and look at methods for building chains of coreferring entities in the text Next the notion of coherence relation is introduced as the second important factor of local coherence We study the role of connectives and other means of signaling such relations in text and then return to the level of larger textual units where tree or graph structures can be ascribed by recursively assigning coherence relations Taken together these descriptions can inform text summarization information extraction discourse aware sentiment analysis question answering and the like Table of Contents Introduction Large Discourse Units and Topics Coreference Resolution Small Discourse Units and Coherence Relations Summary Text Structure on Multiple Interacting Levels **Linguistic Fundamentals for Natural Language Processing**

Emily M. Bender, 2022-05-31 Many NLP tasks have at their core a subtask of extracting the dependencies who did what to whom from natural language sentences This task can be understood as the inverse of the problem solved in different ways by diverse human languages namely how to indicate the relationship between different parts of a sentence Understanding how languages solve the problem can be extremely useful in both feature design and error analysis in the application of machine learning to NLP Likewise understanding cross linguistic variation can be important for the design of MT systems and other multilingual applications The purpose of this book is to present in a succinct and accessible fashion information about the morphological and syntactic structure of human languages that can be useful in creating more linguistically sophisticated more language independent and thus more successful NLP systems Table of Contents Acknowledgments Introduction motivation Morphology Introduction Morphophonology Morphosyntax Syntax Introduction Parts of speech Heads arguments and adjuncts Argument types and grammatical functions Mismatches between syntactic position and semantic roles Resources Bibliography Author's Biography General Index Index of Languages *Introduction to Arabic Natural Language Processing* Nizar Y. Habash, 2022-06-01 This book provides system developers and researchers in natural language processing and computational linguistics with the necessary background information for working with the Arabic language The goal is to introduce Arabic linguistic phenomena and review the state of the art in Arabic processing The book discusses Arabic script phonology orthography morphology syntax and semantics with a final chapter on machine translation issues The chapter sizes correspond more or less to what is linguistically distinctive about Arabic with morphology getting the lion's share followed by Arabic script No previous knowledge of Arabic is needed This book is designed for computer scientists and linguists alike The focus of the book is on Modern Standard Arabic however notes on practical issues related to Arabic

dialects and languages written in the Arabic script are presented in different chapters

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 Arabic Morphology
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 Tasks
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Linguistic Fundamentals for Natural Language Processing II Emily M. Bender, Alex Lascarides, 2022-06-01

Meaning is a fundamental concept in Natural Language Processing

NLP in the tasks of both Natural Language Understanding NLU and Natural Language Generation NLG

This is because the aims of these fields are to build systems that understand what people mean when they speak or write and that can produce linguistic strings that successfully express to people the intended content

In order for NLP to scale beyond partial task specific solutions researchers in these fields must be informed by what is known about how humans use language to express and understand communicative intents

The purpose of this book is to present a selection of useful information about semantics and pragmatics as understood in linguistics in a way that is accessible to and useful for NLP practitioners with minimal or even no prior training in linguistics

Natural Language Processing for Social Media Atefeh Farzindar, 2022-11-10

In recent years online social networking has revolutionized interpersonal communication

The newer research on language analysis in social media has been increasingly focusing on the latter's impact on our daily lives both on a personal and a professional level

Natural language processing NLP is one of the most promising avenues for social media data processing

It is a scientific challenge to develop powerful methods and algorithms which extract relevant information from a large volume of data coming from multiple sources and languages in various formats or in free form

We discuss the challenges in analyzing social media texts in contrast with traditional documents

Research methods in information extraction automatic categorization and clustering automatic summarization and indexing and statistical machine translation need to be adapted to a new kind of data

This book reviews the current research on Natural Language Processing NLP tools and methods for processing the non traditional information from social media data that is available in large amounts big data and shows how innovative NLP approaches can integrate appropriate linguistic information in various fields such as social media monitoring health care business intelligence industry marketing and security and defense

We review the existing evaluation metrics for NLP and social media applications and the new efforts in evaluation campaigns or shared tasks on new datasets collected from social media

Such tasks are organized by the Association for Computational Linguistics such as SemEval tasks or by the National Institute of Standards and Technology via the Text REtrieval Conference TREC and the Text Analysis Conference TAC

In the concluding chapter we discuss the importance of this dynamic discipline and its great potential for NLP in the coming decade in the context of changes in mobile technology cloud computing and social networking

Bayesian Analysis in Natural Language Processing Shay Cohen, 2019-04-09

Natural language processing NLP went through a profound transformation in the mid 1980s when it shifted to make heavy use of corpora and data driven techniques to analyze language

Since then the use of statistical techniques in NLP has evolved in several ways

One such example of

evolution took place in the late 1990s or early 2000s when full fledged Bayesian machinery was introduced to NLP This Bayesian approach to NLP has come to accommodate various shortcomings in the frequentist approach and to enrich it especially in the unsupervised setting where statistical learning is done without target prediction examples In this book we cover the methods and algorithms that are needed to fluently read Bayesian learning papers in NLP and to do research in the area These methods and algorithms are partially borrowed from both machine learning and statistics and are partially developed in house in NLP We cover inference techniques such as Markov chain Monte Carlo sampling and variational inference Bayesian estimation and nonparametric modeling In response to rapid changes in the field this second edition of the book includes a new chapter on representation learning and neural networks in the Bayesian context We also cover fundamental concepts in Bayesian statistics such as prior distributions conjugacy and generative modeling Finally we review some of the fundamental modeling techniques in NLP such as grammar modeling neural networks and representation learning and their use with Bayesian analysis

Natural Language Processing for Historical Texts Michael Piotrowski, 2022-05-31 More and more historical texts are becoming available in digital form Digitization of paper documents is motivated by the aim of preserving cultural heritage and making it more accessible both to laypeople and scholars As digital images cannot be searched for text digitization projects increasingly strive to create digital text which can be searched and otherwise automatically processed in addition to facsimiles Indeed the emerging field of digital humanities heavily relies on the availability of digital text for its studies Together with the increasing availability of historical texts in digital form there is a growing interest in applying natural language processing NLP methods and tools to historical texts However the specific linguistic properties of historical texts the lack of standardized orthography in particular pose special challenges for NLP This book aims to give an introduction to NLP for historical texts and an overview of the state of the art in this field The book starts with an overview of methods for the acquisition of historical texts scanning and OCR discusses text encoding and annotation schemes and presents examples of corpora of historical texts in a variety of languages The book then discusses specific methods such as creating part of speech taggers for historical languages or handling spelling variation A final chapter analyzes the relationship between NLP and the digital humanities Certain recently emerging textual genres such as SMS social media and chat messages or newsgroup and forum postings share a number of properties with historical texts for example nonstandard orthography and grammar and profuse use of abbreviations The methods and techniques required for the effective processing of historical texts are thus also of interest for research in other domains Table of Contents Introduction NLP and Digital Humanities Spelling in Historical Texts Acquiring Historical Texts Text Encoding and Annotation Schemes Handling Spelling Variation NLP Tools for Historical Languages Historical Corpora Conclusion Bibliography

Bayesian Analysis in Natural Language Processing, Second Edition Shay

Cohen, 2022-05-31 Natural language processing NLP went through a profound transformation in the mid 1980s when it

shifted to make heavy use of corpora and data driven techniques to analyze language Since then the use of statistical techniques in NLP has evolved in several ways One such example of evolution took place in the late 1990s or early 2000s when full fledged Bayesian machinery was introduced to NLP This Bayesian approach to NLP has come to accommodate various shortcomings in the frequentist approach and to enrich it especially in the unsupervised setting where statistical learning is done without target prediction examples In this book we cover the methods and algorithms that are needed to fluently read Bayesian learning papers in NLP and to do research in the area These methods and algorithms are partially borrowed from both machine learning and statistics and are partially developed in house in NLP We cover inference techniques such as Markov chain Monte Carlo sampling and variational inference Bayesian estimation and nonparametric modeling In response to rapid changes in the field this second edition of the book includes a new chapter on representation learning and neural networks in the Bayesian context We also cover fundamental concepts in Bayesian statistics such as prior distributions conjugacy and generative modeling Finally we review some of the fundamental modeling techniques in NLP such as grammar modeling neural networks and representation learning and their use with Bayesian analysis

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