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# Apache Solr

A Practical Approach to Enterprise Search

—  
Dikshant Shahi

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# Apache Solr A Practical Approach To Enterprise Search

**Mamta Mittal,Valentina Emilia  
Balas,D. Jude Hemanth,Raghvendra  
Kumar**

## **Apache Solr A Practical Approach To Enterprise Search:**

**Apache Solr** Dikshant Shahi,2015-12-26 Build an enterprise search engine using Apache Solr index and search documents ingest data from varied sources apply various text processing techniques utilize different search capabilities and customize Solr to retrieve the desired results Apache Solr A Practical Approach to Enterprise Search explains each essential concept backed by practical and industry examples to help you attain expert level knowledge The book which assumes a basic knowledge of Java starts with an introduction to Solr followed by steps to setting it up indexing your first set of documents and searching them It then introduces you to information retrieval and its implementation in Apache Solr this will help you understand your search problem decide the approach to build an effective solution and use various metrics to evaluate the results The book next covers the schema design and techniques to build a text analysis chain for cleansing normalizing and enriching your documents and addressing different types of search queries It describes various popular matching techniques which are generally applied to improve the precision and recall of searches You will learn the end to end process of data ingestion from varied sources metadata extraction pre processing and transformation of content various search components query parsers and other advanced search capabilities After covering out of the box features Solr expert Dikshant Shahi dives into ways you can customize Solr for your business and its specific requirements along with ways to plug in your own components Most important you will learn about implementations for Solr scoring factors affecting the document score and tuning the score for the application at hand The book explains why textual scoring is not sufficient for practical ranking of documents and ways to integrate real world factors for contributing to the document ranking You ll see how to influence user experience by providing suggestions and recommendations You ll also see integration of Solr with important related technologies such as OpenNLP and Tika Additionally you will learn about scaling Solr using SolrCloud This book concludes with coverage of semantic search capabilities which is crucial for taking the search experience to the next level By the end of Apache Solr you will be proficient in designing and developing your search engine

**Apache Solr** Jesse Stitt,2017-07-12 Search is everywhere yet it is one of the most misunderstood functionalities of the IT industry In Apache Solr author Xavier Morera guides you through the basics of this highly popular enterprise search tool You ll learn how to set up an index and how to make it searchable then query it with a simple enterprise search Explanations for precision and recall are also included to help you ensure that relevant accurate results have been returned Custom UIs using SolrItas and SolrNet are also covered This updated and expanded second edition of Book provides a user friendly introduction to the subject Taking a clear structural framework it guides the reader through the subject s core elements A flowing writing style combines with the use of illustrations and diagrams throughout the text to ensure the reader understands even the most complex of concepts This succinct and enlightening overview is a required reading for all those interested in the subject We hope you find this book useful in shaping your future career Business

**Intelligent Systems in Big Data, Semantic Web**

**and Machine Learning** Noreddine Gherabi, Janusz Kacprzyk, 2021-05-28 This book describes important methodologies tools and techniques from the fields of artificial intelligence basically those which are based on relevant conceptual and formal development The coverage is wide ranging from machine learning to the use of data on the Semantic Web with many new topics The contributions are concerned with machine learning big data data processing in medicine similarity processing in ontologies semantic image analysis as well as many applications including the use of machine learning techniques for cloud security artificial intelligence techniques for detecting COVID 19 the Internet of things etc The book is meant to be a very important and useful source of information for researchers and doctoral students in data analysis Semantic Web big data machine learning computer engineering and related disciplines as well as for postgraduate students who want to integrate the doctoral cycle

Natural Language Processing Recipes Akshay Kulkarni, Adarsha Shivananda, 2019-01-29 Implement natural language processing applications with Python using a problem solution approach This book has numerous coding exercises that will help you to quickly deploy natural language processing techniques such as text classification parts of speech identification topic modeling text summarization text generation entity extraction and sentiment analysis Natural Language Processing Recipes starts by offering solutions for cleaning and preprocessing text data and ways to analyze it with advanced algorithms You will see practical applications of the semantic as well as syntactic analysis of text as well as complex natural language processing approaches that involve text normalization advanced preprocessing POS tagging and sentiment analysis You will also learn various applications of machine learning and deep learning in natural language processing By using the recipes in this book you will have a toolbox of solutions to apply to your own projects in the real world making your development time quicker and more efficient What You Will Learn Apply NLP techniques using Python libraries such as NLTK TextBlob spaCy Stanford CoreNLP and many more Implement the concepts of information retrieval text summarization sentiment analysis and other advanced natural language processing techniques Identify machine learning and deep learning techniques for natural language processing and natural language generation problems Who This Book Is For Data scientists who want to refresh and learn various concepts of natural language processing through coding exercises

**Computer-Human Interaction Research and Applications** Josef F. Krems, Strategic Blueprint for Enterprise Analytics Liang Wang, Jianxin Zhao, 2024-04-12 This book is a comprehensive guide for professionals leaders and academics seeking to unlock the power of data and analytics in the modern business landscape It delves deeply into the strategic architectural and managerial aspects of implementing enterprise analytics EA systems in large enterprises The book is meticulously structured into three parts Part 1 lays the foundation for adaptable architecture in EA Part 2 explores technical considerations data cloud platforms and AI solutions The final part focuses on strategy execution investment and risk management Acting as a comprehensive guide the book enables the creation of robust EA capabilities that foster growth optimize operations and keep pace with EA's dynamic world Whether readers are leaders harnessing data's potential

practitioners navigating analytics or academics exploring this evolving domain this book provides insights and knowledge to guide readers toward a thriving data driven future

**Mastering Apache Solr 7.x** Sandeep Nair,Chintan Mehta,Dharmesh Vasoya,2018-02-22 Accelerate your enterprise search engine and bring relevancy in your search analytics Key Features A practical guide in building expertise with Indexing Faceting Clustering and Pagination Master the management and administration of Enterprise Search Applications and services seamlessly Handle multiple data inputs such as JSON xml pdf doc xls ppt csv and much more Book Description Apache Solr is the only standalone enterprise search server with a REST like application interface providing highly scalable distributed search and index replication for many of the world s largest internet sites To begin with you would be introduced to how you perform full text search multiple filter search perform dynamic clustering and so on helping you to brush up the basics of Apache Solr You will also explore the new features and advanced options released in Apache Solr 7 x which will get you numerous performance aspects and making data investigation simpler easier and powerful You will learn to build complex queries extensive filters and how are they compiled in your system to bring relevance in your search tools You will learn to carry out Solr scoring elements affecting the document score and how you can optimize or tune the score for the application at hand You will learn to extract features of documents writing complex queries in re ranking the documents You will also learn advanced options helping you to know what content is indexed and how the extracted content is indexed Throughout the book you would go through complex problems with solutions along with varied approaches to tackle your business needs By the end of this book you will gain advanced proficiency to build out of box smart search solutions for your enterprise demands What you will learn Design schema using schema API to access data in the database Advance querying and fine tuning techniques for better performance Get to grips with indexing using Client API Set up a fault tolerant and highly available server with newer distributed capabilities SolrCloud Explore Apache Tika to upload data with Solr Cell Understand different data operations that can be done while indexing Master advanced querying through Velocity Search UI faceting and Query Re ranking pagination and spatial search Learn to use JavaScript Python SolrJ and Ruby for interacting with Solr Who this book is for The book would rightly appeal to developers software engineers data engineers and database architects who are building or seeking to build enterprise wide effective search engines for business intelligence Prior experience of Apache Solr or Java programming is must to take the best of this book

**Data Lake Development with Big Data** Pradeep Pasupuleti,Beulah Salome Purra,2015-11-26 Explore architectural approaches to building Data Lakes that ingest index manage and analyze massive amounts of data using Big Data technologies About This Book Comprehend the intricacies of architecting a Data Lake and build a data strategy around your current data architecture Efficiently manage vast amounts of data and deliver it to multiple applications and systems with a high degree of performance and scalability Packed with industry best practices and use case scenarios to get you up and running Who This Book Is For This book is for architects and senior managers who

are responsible for building a strategy around their current data architecture helping them identify the need for a Data Lake implementation in an enterprise context The reader will need a good knowledge of master data management and information lifecycle management and experience of Big Data technologies What You Will Learn Identify the need for a Data Lake in your enterprise context and learn to architect a Data Lake Learn to build various tiers of a Data Lake such as data intake management consumption and governance with a focus on practical implementation scenarios Find out the key considerations to be taken into account while building each tier of the Data Lake Understand Hadoop oriented data transfer mechanism to ingest data in batch micro batch and real time modes Explore various data integration needs and learn how to perform data enrichment and data transformations using Big Data technologies Enable data discovery on the Data Lake to allow users to discover the data Discover how data is packaged and provisioned for consumption Comprehend the importance of including data governance disciplines while building a Data Lake In Detail A Data Lake is a highly scalable platform for storing huge volumes of multistructured data from disparate sources with centralized data management services This book explores the potential of Data Lakes and explores architectural approaches to building data lakes that ingest index manage and analyze massive amounts of data using batch and real time processing frameworks It guides you on how to go about building a Data Lake that is managed by Hadoop and accessed as required by other Big Data applications This book will guide readers using best practices in developing Data Lake s capabilities It will focus on architect data governance security data quality data lineage tracking metadata management and semantic data tagging By the end of this book you will have a good understanding of building a Data Lake for Big Data Style and approach Data Lake Development with Big Data provides architectural approaches to building a Data Lake It follows a use case based approach where practical implementation scenarios of each key component are explained It also helps you understand how these use cases are implemented in a Data Lake The chapters are organized in a way that mimics the sequential data flow evidenced in a Data Lake

**Data Intensive Computing Applications for Big Data** Mamta Mittal,Valentina Emilia Balas,D. Jude Hemanth,Raghvendra Kumar,2018-01-15 The book Data Intensive Computing Applications for Big Data discusses the technical concepts of big data data intensive computing through machine learning soft computing and parallel computing paradigms It brings together researchers to report their latest results or progress in the development of the above mentioned areas Since there are few books on this specific subject the editors aim to provide a common platform for researchers working in this area to exhibit their novel findings The book is intended as a reference work for advanced undergraduates and graduate students as well as multidisciplinary interdisciplinary and transdisciplinary research workers and scientists on the subjects of big data and cloud parallel and distributed computing and explains didactically many of the core concepts of these approaches for practical applications It is organized into 24 chapters providing a comprehensive overview of big data analysis using parallel computing and addresses the complete data science workflow in the cloud as well as dealing with

privacy issues and the challenges faced in a data intensive cloud computing environment The book explores both fundamental and high level concepts and will serve as a manual for those in the industry while also helping beginners to understand the basic and advanced aspects of big data and cloud computing     **Scaling Apache Solr** Hrishikesh Vijay Karambelkar,2014-01-01 This book is a step by step guide for readers who would like to learn how to build complete enterprise search solutions with ample real world examples and case studies If you are a developer designer or architect who would like to build enterprise search solutions for your customers or organization but have no prior knowledge of Apache Solr Lucene technologies this is the book for you     **Apache Solr 3 Enterprise Search Server** David Smiley, Eric Pugh,2011 Enhance your search with faceted navigation result highlighting relevancy ranked sorting and more     **Scaling Apache Solr** Hrishikesh Vijay Karambelkar,2014-07-25 This book is a step by step guide for readers who would like to learn how to build complete enterprise search solutions with ample real world examples and case studies If you are a developer designer or architect who would like to build enterprise search solutions for your customers or organization but have no prior knowledge of Apache Solr Lucene technologies this is the book for you     *Mastering Apache Solr* Mr. Mathieu Nayrolles,2014-05-15 Topic In the open source full text search community a leader emerges Apache Solr Apache Solr enables you to index and access documents orders of magnitude faster than classical databases and thereby provides a first class search experience to your end users Brief Description Mastering Apache Solr is a practical hands on guide containing crisp relevant systematically arranged and progressive chapters These chapters contain a wealth of information presented in a direct and easy to understand manner This book covers key technical concepts highlighting Solr s supremacy over classical databases in full text search which will help you accelerate your progress in the Solr world Detailed Description Mastering Apache Solr starts with an introduction to Apache Solr its underlying technologies the main differences between the classical database engines and gradually moves to more advance topics like boosting performance In this book we will look under the hood of a large number of topics and discuss answers to pertinent questions like why denormalize data how to import classical databases data inside Apache Solr how to serve Solr through five different web servers how to optimize them to serve Solr even faster An important and major topic covered in this book is Solr s querying mechanism which will prove to be a strong ally in our journey through this book We then look at boosting performance and deploying Solr using several servlet servers Finally we cover how to communicate with Solr using different programming languages before deploying it in a cloud based environment Who this book is for Mastering Apache Solr has been written for developers programmers and data specialists who want to take a leap towards the future of full text storage and search and offer a world class experience to their users The reader is expected to have a working knowledge of traditional databases Linux based operating systems and XML configuration files Style and Approach Mastering Apache Solr is written lucidly and has a dynamically simple approach From the first page to the last the book remains practical and focuses on the most important topics used in the world of

Apache Solr without neglecting important theoretical fundamentals that help you build a strong foundation Conclusion Mastering Apache Solr will empower you to provide a world class search experience to your end users through the discovery of the powerful mechanisms presented in this book [Apache Solr Beginner's Guide](#) Alfredo Serafini,2017-07-03 Search is everywhere yet it is one of the most misunderstood functionalities of the IT industry In Apache Solr author Xavier Morera guides you through the basics of this highly popular enterprise search tool You ll learn how to set up an index and how to make it searchable then query it with a simple enterprise search Explanations for precision and recall are also included to help you ensure that relevant accurate results have been returned Custom UIs using SolrItas and SolrNet are also covered This updated and expanded second edition of Book provides a user friendly introduction to the subject Taking a clear structural framework it guides the reader through the subject s core elements A flowing writing style combines with the use of illustrations and diagrams throughout the text to ensure the reader understands even the most complex of concepts This succinct and enlightening overview is a required reading for all those interested in the subject We hope you find this book useful in shaping your future career Business *Apache Solr 5.x Beginner's Guide* ,2016 **Mastering Apache Solr (Colored Version)** Mathieu Nayrolles,2014-06-10 Topic In the open source full text search community a leader emerges Apache Solr Apache Solr enables you to index and access documents orders of magnitude faster than classical databases and thereby provides a first class search experience to your end users Brief Description Mastering Apache Solr is a practical hands on guide containing crisp relevant systematically arranged and progressive chapters These chapters contain a wealth of information presented in a direct and easy to understand manner This book covers key technical concepts highlighting Solr s supremacy over classical databases in full text search which will help you accelerate your progress in the Solr world Detailed Description Mastering Apache Solr starts with an introduction to Apache Solr its underlying technologies the main differences between the classical database engines and gradually moves to more advance topics like boosting performance In this book we will look under the hood of a large number of topics and discuss answers to pertinent questions like why denormalize data how to import classical databases data inside Apache Solr how to serve Solr through five different web servers how to optimize them to serve Solr even faster An important and major topic covered in this book is Solr s querying mechanism which will prove to be a strong ally in our journey through this book We then look at boosting performance and deploying Solr using several servlet servers Finally we cover how to communicate with Solr using different programming languages before deploying it in a cloud based environment Who this book is for Mastering Apache Solr has been written for developers programmers and data specialists who want to take a leap towards the future of full text storage and search and offer a world class experience to their users The reader is expected to have a working knowledge of traditional databases Linux based operating systems and XML configuration files Style and Approach Mastering Apache Solr is written lucidly and has a dynamically simple approach From the first page to the last the book remains practical and focuses on the most

important topics used in the world of Apache Solr without neglecting important theoretical fundamentals that help you build a strong foundation Conclusion Mastering Apache Solr will empower you to provide a world class search experience to your end users through the discovery of the powerful mechanisms presented in this book

**Scaling Big Data with Hadoop and Solr - Second Edition** Hrishikesh Vijay Karambelkar,2015-04-30

**Apache Solr Beginner's Guide** Trey Grainger,Timothy Potter,2017-07-12 Search is everywhere yet it is one of the most misunderstood functionalities of the IT industry In Apache Solr author Xavier Morera guides you through the basics of this highly popular enterprise search tool You ll learn how to set up an index and how to make it searchable then query it with a simple enterprise search Explanations for precision and recall are also included to help you ensure that relevant accurate results have been returned Custom UIs using SolrItas and SolrNet are also covered This updated and expanded second edition of Book provides a user friendly introduction to the subject Taking a clear structural framework it guides the reader through the subject s core elements A flowing writing style combines with the use of illustrations and diagrams throughout the text to ensure the reader understands even the most complex of concepts This succinct and enlightening overview is a required reading for all those interested in the subject We hope you find this book useful in shaping your future career Business

**Solr in Action** Trey Grainger,Timothy Potter,2017-07-03 Search is everywhere yet it is one of the most misunderstood functionalities of the IT industry In Apache Solr author Xavier Morera guides you through the basics of this highly popular enterprise search tool You ll learn how to set up an index and how to make it searchable then query it with a simple enterprise search Explanations for precision and recall are also included to help you ensure that relevant accurate results have been returned Custom UIs using SolrItas and SolrNet are also covered This updated and expanded second edition of Book provides a user friendly introduction to the subject Taking a clear structural framework it guides the reader through the subject s core elements A flowing writing style combines with the use of illustrations and diagrams throughout the text to ensure the reader understands even the most complex of concepts This succinct and enlightening overview is a required reading for all those interested in the subject We hope you find this book useful in shaping your future career Business

**Solr 1.4 Enterprise Search Server** David Smiley,Eric Pugh,2009 The book takes a tutorial approach with fully working examples It will show you how to implement a Solr based search engine on your intranet or web site This book is for developers who would like to use Solr for their applications You only need to have basic programming skills to use Solr Knowledge of Lucene is certainly a bonus

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