Apache Solr Search Patterns

Jayant Kumar

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Leverage the power of Apache Solr to power up your business by navigating your users to their data quickly and efficiently

About This Book

- Learn the best use cases for using Solr in e-commerce, advertising, real-estate, and other sites
- Explore Solr internals and customize the scoring algorithm in Solr
- This is an easy-to-follow book with a step-by-step approach to help you get the best out of Solr search patterns

Who This Book Is For

This book is for developers who already know how to use Solr and are looking at procuring advanced strategies for improving their search using Solr. This book is also for people who work with analytics to generate graphs and reports using Solr. Moreover, if you are a search architect who is looking forward to scale your search using Solr, this is a must have book for you.

It would be helpful if you are familiar with the Java programming language.

What You Will Learn

- Customize the Solr scoring algorithm to get better and more relevant search results
- Use Solr with big data for analytical purposes
- Get insights into Solr internalsâ€"indexing and search
- Setting up and scaling with Solr cloud
- Implement spatial search with Solr
- Understand Finite State Transducers (FST) and implement text tagging using FST
- Breeze through the strategies used in executing search using Solr in e-commerce, advertising, and real estate websites
- Learn more about how to use Solr with AJAX

In Detail

Apache Solr is an open source search platform built on a Java library called Lucene. It serves as a search platform for many websites, as it has the capability of indexing and searching multiple websites to fetch desired results.

We begin with a brief introduction of analyzers and tokenizers to understand the challenges associated with implementing large-scale indexing and multilingual search functionality. We then move on to working with custom queries and understanding how filters work internally. While doing so, we also create our own query language or Solr plugin that does proximity searches. Furthermore, we discuss how Solr can be used for real-time analytics and tackle problems faced during its implementation in e-commerce search. We then dive

deep into the spatial features such as indexing strategies and search/filtering strategies for a spatial search. We also do an in-depth analysis of problems faced in an ad serving platform and how Solr can be used to solve these problems.

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