Building Web Applications with Python and Neo4j

Develop exciting real-world Python-based web applications with Neo4j using frameworks such as Flask, Py2neo, and Django

Sumit Gupta

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Sumit Gupta,Shilpi

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Building Web Applications with Python and Neo4j Sumit Gupta,2015-07-16 Py2neo is a simple and pragmatic Python library that provides access to the popular graph database Neo4j via its RESTful web service interface This brings with it a heavily refactored core a cleaner API better performance and some new idioms You will begin with licensing and installing Neo4j learning the fundamentals of Cypher as a graph query language and exploring Cypher optimizations You will discover how to integrate with various Python frameworks such as Flask and its extensions Py2neo Neomodel and Django Finally the deployment aspects of your Python based Neo4j applications in a production environment is also covered By sequentially working through the steps in each chapter you will quickly learn and master the various implementation details and integrations of Python and Neo4j helping you to develop your use cases more quickly   *Real-Time Big Data Analytics* Sumit Gupta,Shilpi,2016-02-26 Design process and analyze large sets of complex data in real time About This Book Get acquainted with transformations and database level interactions and ensure the reliability of messages processed using Storm Implement strategies to solve the challenges of real time data processing Load datasets build queries and make recommendations using Spark SQL Who This Book Is For If you are a Big Data architect developer or a programmer who wants to develop applications frameworks to implement real time analytics using open source technologies then this book is for you What You Will Learn Explore big data technologies and frameworks Work through practical challenges and use cases of real time analytics versus batch analytics Develop real word use cases for processing and analyzing data in real time using the programming paradigm of Apache Storm Handle and process real time transactional data Optimize and tune Apache Storm for varied workloads and production deployments Process and stream data with Amazon Kinesis and Elastic MapReduce Perform interactive and exploratory data analytics using Spark SQL Develop common enterprise architectures applications for real time and batch analytics In Detail Enterprise has been striving hard to deal with the challenges of data arriving in real time or near real time Although there are technologies such as Storm and Spark and many more that solve the challenges of real time data using the appropriate technology framework for the right business use case is the key to success This book provides you with the skills required to quickly design implement and deploy your real time analytics using real world examples of big data use cases From the beginning of the book we will cover the basics of varied real time data processing frameworks and technologies We will discuss and explain the differences between batch and real time processing in detail and will also explore the techniques and programming concepts using Apache Storm Moving on we ll familiarize you with Amazon Kinesis for real time data processing on cloud We will further develop your understanding of real time analytics through a comprehensive review of Apache Spark along with the high level architecture and the building blocks of a Spark program You will learn how to transform your data get an output from transformations and persist your results using Spark RDDs using an interface called Spark SQL to work with Spark At the end of this book we will introduce Spark Streaming the

streaming library of Spark and will walk you through the emerging Lambda Architecture LA which provides a hybrid platform for big data processing by combining real time and precomputed batch data to provide a near real time view of incoming data Style and approach This step by step is an easy to follow detailed tutorial filled with practical examples of basic and advanced features Each topic is explained sequentially and supported by real world examples and executable code snippets

Hands-On Graph Analytics with Neo4j Estelle Scifo,2020-08-21 Discover how to use Neo4j to identify relationships within complex and large graph datasets using graph modeling graph algorithms and machine learning Key FeaturesGet up and running with graph analytics with the help of real world examplesExplore various use cases such as fraud detection graph based search and recommendation systemsGet to grips with the Graph Data Science library with the help of examples and use Neo4j in the cloud for effective application scalingBook Description Neo4j is a graph database that includes plugins to run complex graph algorithms The book starts with an introduction to the basics of graph analytics the Cypher query language and graph architecture components and helps you to understand why enterprises have started to adopt graph analytics within their organizations You ll find out how to implement Neo4j algorithms and techniques and explore various graph analytics methods to reveal complex relationships in your data You ll be able to implement graph analytics catering to different domains such as fraud detection graph based search recommendation systems social networking and data management You ll also learn how to store data in graph databases and extract valuable insights from it As you become well versed with the techniques you ll discover graph machine learning in order to address simple to complex challenges using Neo4j You will also understand how to use graph data in a machine learning model in order to make predictions based on your data Finally you ll get to grips with structuring a web application for production using Neo4j By the end of this book you ll not only be able to harness the power of graphs to handle a broad range of problem areas but you ll also have learned how to use Neo4j efficiently to identify complex relationships in your data What you will learnBecome well versed with Neo4j graph database building blocks nodes and relationshipsDiscover how to create update and delete nodes and relationships using Cypher queryingUse graphs to improve web search and recommendationsUnderstand graph algorithms such as pathfinding spatial search centrality and community detectionFind out different steps to integrate graphs in a normal machine learning pipelineFormulate a link prediction problem in the context of machine learningImplement graph embedding algorithms such as DeepWalk and use them in Neo4j graphsWho this book is for This book is for data analysts business analysts graph analysts and database developers looking to store and process graph data to reveal key data insights This book will also appeal to data scientists who want to build intelligent graph applications catering to different domains Some experience with Neo4j is required   **Building Neo4j-Powered Applications with LLMs** Ravindranatha Anthapu,Siddhant Agarwal,2025-06-20 A comprehensive guide to building cutting edge generative AI applications using Neo4j s knowledge graphs and vector search capabilities Key Features Design vector search and recommendation systems

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oriented database with a unique set of features This increasingly popular NoSQL database is used to develop real time web applications and together with Node js it can be used to easily deploy them to the cloud with very little difficulty Getting Started with RethinkDB is designed to get you working with RethinkDB as quickly as possible Starting with the installation and configuration process you will learn how to start importing data into the database and run simple queries using the intuitive ReQL query language After successfully running a few simple queries you will be introduced to other topics such as clustering and sharding You will get to know how to set up a cluster of RethinkDB nodes and spread database load across multiple machines We will then move on to advanced queries and optimization techniques You will discover how to work with RethinkDB from a Node js environment and find out all about deployment techniques Finally we ll finish by working on a fully fledged example that uses the Node js framework and advanced features such as Changefeeds to develop a real time web application Style and approach This is a step by step book that provides a practical approach to RethinkDB programming and is explained in a conversational easy to follow style   *Building Web Apps with Python and Flask* Malhar Lathkar,2021-03-12 A practical guide for the rapid web application development with Flask KEY FEATURES _ Expert led coverage of core capabilities of Flask key extensions and its implementation _ Explore the Werkzeug toolkit and Jinja Template engine and see how Flask interacts with JavaScript and CSS _ Detailed modules on building and deploying RESTful applications using Flask DESCRIPTION This book teaches the reader the complete workflow of developing web applications using Python and its most outperforming microframework Flask The book begins with getting you up to speed in developing a strong understanding of the web application development process and how Python is used in developing the applications You will learn how to write your own first Flask based web application in Python You will learn about web gateway interfaces including CGI and WSGI along with various tools like the Jinja 2 engine Werkzeug toolkit and Click toolkit You will learn and practice the core features of Flask such as URL routing rendering handling static assets of a web application how to handle cookies and sessions and other HTTP objects Once you have developed a strong knowledge of Flask you will now dive deeper into advanced topics that includes Flask extensions for working with relational and NoSQL databases Flask_WTF and Flask Bootstrap You will explore design patterns various blueprints on how to build modular and scalable applications and finally how to deploy the RESTful APIs successfully on your own WHAT YOU WILL LEARN _ Get to know everything about the core capabilities of Flask _ Understand the basic building blocks of Flask _ Get familiar with advanced features of Flask including blueprints Flask extensions and database connectivity _ Get ready to design your own Flask based web applications and RESTful APIs _ Learn to build modular and scalable applications and how to deploy them successfully WHO THIS BOOK IS FOR This book is ideal for Python enthusiasts open source contributors and web app developers who intend to add Python web technologies in their skillsets and startup companies The understanding of the core Python language with intermediate level expertise is required and experience of working with SQL HTML CSS and JavaScript is an added advantage TABLE OF

CONTENTS 1 Python for CGI 2 WSGI 3 Flask Fundamentals 4 URL Routing 5 Rendering Templates 6 Static Files 7 HTTP Objects 8 Using Databases 9 More Flask Extensions 10 Blueprints and Contexts 11 Web API with Flask 12 Deploying Flask Applications 13 Appendix **Learning Spark SQL** Aurobindo Sarkar,2017-09-07 Design implement and deliver successful streaming applications machine learning pipelines and graph applications using Spark SQL API About This Book Learn about the design and implementation of streaming applications machine learning pipelines deep learning and large scale graph processing applications using Spark SQL APIs and Scala Learn data exploration data munging and how to process structured and semi structured data using real world datasets and gain hands on exposure to the issues and challenges of working with noisy and dirty real world data Understand design considerations for scalability and performance in web scale Spark application architectures Who This Book Is For If you are a developer engineer or an architect and want to learn how to use Apache Spark in a web scale project then this is the book for you It is assumed that you have prior knowledge of SQL querying A basic programming knowledge with Scala Java R or Python is all you need to get started with this book What You Will Learn Familiarize yourself with Spark SQL programming including working with DataFrame Dataset API and SQL Perform a series of hands on exercises with different types of data sources including CSV JSON Avro MySQL and MongoDB Perform data quality checks data visualization and basic statistical analysis tasks Perform data munging tasks on publically available datasets Learn how to use Spark SQL and Apache Kafka to build streaming applications Learn key performance tuning tips and tricks in Spark SQL applications Learn key architectural components and patterns in large scale Spark SQL applications In Detail In the past year Apache Spark has been increasingly adopted for the development of distributed applications Spark SQL APIs provide an optimized interface that helps developers build such applications quickly and easily However designing web scale production applications using Spark SQL APIs can be a complex task Hence understanding the design and implementation best practices before you start your project will help you avoid these problems This book gives an insight into the engineering practices used to design and build real world Spark based applications The book s hands on examples will give you the required confidence to work on any future projects you encounter in Spark SQL It starts by familiarizing you with data exploration and data munging tasks using Spark SQL and Scala Extensive code examples will help you understand the methods used to implement typical use cases for various types of applications You will get a walkthrough of the key concepts and terms that are common to streaming machine learning and graph applications You will also learn key performance tuning details including Cost Based Optimization Spark 2 2 in Spark SQL applications Finally you will move on to learning how such systems are architected and deployed for a successful delivery of your project Style and approach This book is a hands on guide to designing building and deploying Spark SQL centric production applications at scale **Salt Cookbook** Anirban Saha,2015-07-27 Salt has become one of the major players in automation and configuration management solutions This book starts with the basics of the tool the procedures to get up and running with Salt and then moves on to

configuring very simple but important details to receive optimal performance from the tool It also walks you through Salt configurations for different infrastructure components and the details of the Salt modules for each of the components The book also provides some common problem scenarios and how to troubleshoot them With detailed configuration their explanation and command line outputs of the module execution Salt Cookbook will help you to get up and running with Salt for all your infrastructural needs   **Practical Neo4j** Gregory Jordan,2014-12-29 Why have developers at places like Facebook and Twitter increasingly turned to graph databases to manage their highly connected big data The short answer is that graphs offer superior speed and flexibility to get the job done It s time you added skills in graph databases to your toolkit In Practical Neo4j database expert Greg Jordan guides you through the background and basics of graph databases and gets you quickly up and running with Neo4j the most prominent graph database on the market today Jordan walks you through the data modeling stages for projects such as social networks recommendation engines and geo based applications The book also dives into the configuration steps as well as the language options used to create your Neo4j backed applications Neo4j runs some of the largest connected datasets in the world and developing with it offers you a fast proven NoSQL database option Besides those working for social media database and networking companies of all sizes academics and researchers will find Neo4j a powerful research tool that can help connect large sets of diverse data and provide insights that would otherwise remain hidden Using Practical Neo4j you will learn how to harness that power and create elegant solutions that address complex data problems This book Explains the basics of graph databases Demonstrates how to configure and maintain Neo4j Shows how to import data into Neo4j from a variety of sources Provides a working example of a Neo4j based application using an array of language of options including Java Net PHP Python Spring and Ruby As you ll discover Neo4j offers a blend of simplicity and speed while allowing data relationships to maintain first class status That s one reason among many that such a wide range of industries and fields have turnedto graph databases to analyze deep dense relationships After reading this book you ll have a potent elegant tool you can use to develop projects profitably and improve your career options   Graph Data Modeling in Python Gary Hutson,Matt Jackson,2023-06-30 Learn how to transform store evolve refactor model and create graph projections using the Python programming language Purchase of the print or Kindle book includes a free PDF eBook Key Features Transform relational data models into graph data model while learning key applications along the way Discover common challenges in graph modeling and analysis and learn how to overcome them Practice real world use cases of community detection knowledge graph and recommendation network Book Description Graphs have become increasingly integral to powering the products and services we use in our daily lives driving social media online shopping recommendations and even fraud detection With this book you ll see how a good graph data model can help enhance efficiency and unlock hidden insights through complex network analysis Graph Data Modeling in Python will guide you through designing implementing and harnessing a variety of graph data models using the popular open source Python

libraries NetworkX and igraph Following practical use cases and examples you ll find out how to design optimal graph models capable of supporting a wide range of queries and features Moreover you ll seamlessly transition from traditional relational databases and tabular data to the dynamic world of graph data structures that allow powerful path based analyses As well as learning how to manage a persistent graph database using Neo4j you ll also get to grips with adapting your network model to evolving data requirements By the end of this book you ll be able to transform tabular data into powerful graph data models In essence you ll build your knowledge from beginner to advanced level practitioner in no time What you will learn Design graph data models and master schema design best practices Work with the NetworkX and igraph frameworks in Python Store query ingest and refactor graph data Store your graphs in memory with Neo4j Build and work with projections and put them into practice Refactor schemas and learn tactics for managing an evolved graph data model Who this book is for If you are a data analyst or database developer interested in learning graph databases and how to curate and extract data from them this is the book for you It is also beneficial for data scientists and Python developers looking to get started with graph data modeling Although knowledge of Python is assumed no prior experience in graph data modeling theory and techniques is required

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