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Python for Data Science (Ultimate Quickstart Guide)

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The Ultimate Python Beginner's Handbook - freeCodeCamp.org

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Quick Start - Python

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Python interface, MATLAB® interface, or R interface. At the end of the Quick Start Guide, you'll find a File Overview that lists the files included in the Gurobi distribution. Additional resources. Once you are done with the Quick Start Guide, the next step is to explore these additional resources:

Gurobi Optimizer Quick Start Guide - Windows

This "Python Quickstart Guide" is for you!.. a simple, practical guide in which you'll learn everything you need to know about python programming! THIS GUIDE WILL TEACH YOU: Python Basics (Beginner's guide) This book will take you into the process of learning the basics of python in

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A quick-start guide to work with IRIS Level2 data in Python, Release 10 In the latest version of theIRIS Level 2 data search tool, there is a new link to recover the Heliophysics Coverage Registry (HCR) record(s) that satisfy the search conditions using

Ever wanted to work from home? ..or better yet, a beach in Hawaii? This book will help you take your first step! Learning to program can open an unlimited number of doors, especially in the coming years. Everything we do in life is increasingly done with the assistance of computers and programming. This drives the demand for people with programming skills. The best thing about it is you only need your laptop and you're set! Who should buy this book? Beginners It is very common to be intimidated by the idea of learning a programming language such as Python. That's where this book comes in, you will learn how to start thinking like a programer! This book lays out the basics, and you don't have to worry about becoming confused and spending hours searching the internet for clarification.People

with Limited Time This book gets straight to the the point, telling you what you need to know in a clear and concise manner. No need to waste your time reading irrelevant information to your Python learning quest!Those That Want to Start Thinking Like A Programer This book shows you how programmers quickly flesh out their coding solution to a problem before ever doing any actual coding. Anyone Looking to Escape the Rat Race This book can help you begin your programming journey in a fast a efficient manner, allowing you to escape your 9-5 job! Programming is one of the few skills you can do thousands of miles away from the office, meaning you can work part-time earning american dollars whilst living like a king by leveraging the exchange rate! Here is a sneak-peak at some of the things you'll understand: Why Learn Python? Getting Started & The Installation Process Operators, Operands and Operations Variables Integers, Strings and Floats Performing Operations on Variables Naming Conventions and Comments Handling Inputs Loops If, Then Statements Nesting Logic Gates Pseudocode Lists, Tuples and Dictionaries Understanding Functions and 'Object Oriented' Programming Modules, Graphics and More Applying your Python Skills on Projects And don't miss the little bonus at the end for you TAKE ACTION TODAY and start your Python Programming journey with us!

PYTHON The Ultimate Python One Day Quickstart Guide. Practical Python Programming For Beginners & Experts With Hands-on Project This book contains proven steps and strategies on how to learn Python programming in just a few days. While I don't profess to be able to make you a fully-fledged programmer in that time, my book is aimed at teaching you the basics of Python. Why Python? Why not C+, Swift, Ruby or Java? There are a lot of very good computer

programs out there and each has its pitfalls and its good side. Python is the easiest to learn and once you have a good grounding in it, you can move on to another, more complicated language. Python is a beautiful computer language. It is simple, and it is intuitive. It comes complete with plenty of libraries and frameworks to help you manage most everything you want to do. And, to back it up, there is a very powerful Python community just waiting to help you out and point you in the right direction.

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Quickstart guide for Python Programming Python is an incredibly versatile and powerful programming language, but only if you know how to use it! Need to learn Python fast? Python can be used to create just about any kind of programming project you can imagine. When you understand how to program in Python, you unlock a world of computing power and possibilities. Get the most out of Python simply by following the easy coding examples and projects fully explained inside this guide. It doesn't matter if you have never programmed anything before. This step-by-step guide gives you everything you need to know to do more with Python than you ever thought possible! Fully up to date for 2018 Python has been around for a long time, but has evolved over the years. Save yourself the headache and frustration of trying to use a guide that just isn't up to date anymore! Brand new and fully up to date, this guide shows you exactly what you need to do to start programming in Python today!Here is a preview of what you will learn in this guide: What is Python and why should I use it to program? Object-Oriented Programming Python as a Connecting Language Python Cross-Compatibility Python and the Coding Community How do I install Python? Installing Python on the Windows and on other Platforms What is IDLE? IDLE Interactive Mode IDLE Script Mode Data Types and Variables in Python Converting Data Types Creating and assigning variables Variables modified by code Variables modified by user input Conditional statements Comparison Operators Loops While Loops without Comparison Operators Compound conditions and Logical Operators Using the Break and Continue functions in While Loops Constructing a For

Loop Indexing for loops Creating a class Defining Methods Creating an Object Instance Invoking Methods Using a Constructor Method Receiving File Input and Creating Output to Files How to Open and Close an External File Reading Characters from an External File Reading characters from a single line Writing characters to an External File Exceptions Packages and Libraries And so much more! If you aren't a tech-savvy person or have no programming experience, have no fear! With this guide in your hands that will not be a barrier for you any longer. Learn Python programing quickly and easily when you grab this guide now!

Explore the different data mining techniques using the libraries and packages offered by Python Key Features Grasp the basics of data loading, cleaning, analysis, and visualization Use the popular Python libraries such as NumPy, pandas, matplotlib, and scikit-learn for data mining Your one-stop guide to build efficient data mining pipelines without going into too much theory Book Description Data mining is a necessary and predictable response to the dawn of the information age. It is typically defined as the pattern and/ or trend discovery phase in the data mining pipeline, and Python is a popular tool for performing these tasks as it offers a wide variety of tools for data mining. This book will serve as a quick introduction to the concept of data mining and putting it to practical use with the help of popular Python packages and libraries. You will get a hands-on demonstration of working with different real-world datasets and extracting useful insights from them using popular Python libraries such as NumPy, pandas, scikit-learn, and matplotlib. You will then learn the different stages of data mining such as data loading, cleaning, analysis, and visualization. You will also get a full conceptual description

of popular data transformation, clustering, and classification techniques. By the end of this book, you will be able to build an efficient data mining pipeline using Python without any hassle. What you will learn Explore the methods for summarizing datasets and visualizing/plotting data Collect and format data for analytical work Assign data points into groups and visualize clustering patterns Learn how to predict continuous and categorical outputs for data Clean, filter noise from, and reduce the dimensions of data Serialize a data processing model using scikit-learn's pipeline feature Deploy the data processing model using Python's pickle module Who this book is for Python developers interested in getting started with data mining will love this book. Budding data scientists and data analysts looking to quickly get to grips with practical data mining with Python will also find this book to be useful. Knowledge of Python programming is all you need to get started.

Python has various database drivers for PostgreSQL. Currently, the psycopg is the most popular PostgreSQL database adapter for the Python language. The psycopg fully implements the Python DB-API 2.0 specification. The current version of the psycopg is 2 or psycopg2. The psycopg2 database adapter implemented in C as a libpq wrapper resulting in both fast and secure. The psycopg2 provides many useful features such as client-side and server-side cursors, asynchronous notification and communication, COPY command support, etc. PostgreSQL was designed to run on UNIX-like platforms. However, PostgreSQL was then also designed to be portable so that it could run on various platforms such as Mac OS X, Solaris, and Windows. PostgreSQL is free and open source software. Its source code is available under PostgreSQL license, a liberal open source license. You are free to use, modify and distribute

PostgreSQL in any form. PostgreSQL requires very minimum maintained efforts because of its stability. Therefore, if you develop applications based on PostgreSQL, the total cost of ownership is low in comparison with other database management systems. In Chapter 2, you will learn querying data from the postgresql using Python including establishing a database connection, creating a statement object, executing the query, processing the resultset object, querying data using a statement that returns multiple rows, querying data using a statement that has parameters, inserting data into a table using Python, updating data in postgresql database using Python, calling postgresql stored function using Python, deleting data from a postgresql table using Python, and postgresql Python transaction. In Chapter 3, you will learn managing table structure and views including postgresql data types, postgresql create table, postgresql select into statement, postgresql create table as, using postgresql serial to create auto-increment column, identity column, alter table, drop table, truncate table, check constraint, not-null constraint, foreign key, primary key, unique constraint, managing postgresql views, creating updatable views, materialized views, creating updatable views using the with check option clause, and recursive view. In Chapter 4, you will learn statements, operators, and clauses including select, order by, select distinct, limit, fetch, in, between, postgresql like, is null, alias, joins, inner join, postgresql left join, self-join, full outer join, cross join, natural join, group by, having, intersect operator, except operator, grouping sets, cube, and rollup. In Chapter 5, you will learn postgresql trigger, aggregate, and string functions including creating the first trigger in postgresql, managing postgresql trigger, aggregate functions, avg function, max function, min function, sum function, postgresql concat function, ascii function, trim function, length function,

substring function, regexp_matches function, regexp_replace function, replace function, to_number function, and to_char function.

The Hitchhiker's Guide to Python takes the journeyman Pythonista to true expertise. More than any other language, Python was created with the philosophy of simplicity and parsimony. Now 25 years old, Python has become the primary or secondary language (after SQL) for many business users. With popularity comes diversity—and possibly dilution. This guide, collaboratively written by over a hundred members of the Python community, describes best practices currently used by package and application developers. Unlike other books for this audience, The Hitchhiker's Guide is light on reusable code and heavier on design philosophy, directing the reader to excellent sources that already exist.

This book explains relational theory in practice, and demonstrates through two projects how you can apply it to your use of MySQL and SQLite databases. This book covers the important requirements of teaching databases with a practical and progressive perspective. This book offers the straightforward, practical answers you need to help you do your job. This hands-on tutorial/reference/guide to MySQL and SQLite is not only perfect for students and beginners, but it also works for experienced developers who aren't getting the most from both databases. In designing a GUI and as an IDE, you will make use Qt Designer. In the first chapter, you will learn to use several widgets in PyQt5: Display a welcome message; Use the Radio Button widget; Grouping radio buttons; Displays options in the form of a check box; and Display two groups of check boxes. In chapter two, you will learn to use the following topics: Using Signal / Slot

Editor; Copy and place text from one Line Edit widget to another; Convert data types and make a simple calculator; Use the Spin Box widget; Use scrollbars and sliders; Using the Widget List; Select a number of list items from one Widget List and display them on another Widget List widget; Add items to the Widget List; Perform operations on the Widget List; Use the Combo Box widget; Displays data selected by the user from the Calendar Widget; Creating a hotel reservation application; and Display tabular data using Table Widgets. In chapter three, you will learn: How to create the initial three tables project in the School database: Teacher, Class, and Subject tables; How to create database configuration files; How to create a Python GUI for inserting and editing tables; How to create a Python GUI to join and query the three tables. In chapter four, you will learn how to: Create a main form to connect all forms; Create a project will add three more tables to the school database: Student, Parent, and Tuition tables; Create a Python GUI for inserting and editing tables; Create a Python GUI to join and query over the three tables. In chapter five, you will join the six classes, Teacher, TClass, Subject, Student, Parent, and Tuition and make queries over those tables. In chapter six, you will create dan configure database. In this chapter, you will create Suspect table in crime database. This table has eleven columns: suspect_id (primary key), suspect_name, birth_date, case_date, report_date, suspect_ status, arrest_date, mother_name, address, telephone, and photo. You will also create GUI to display, edit, insert, and delete for this table. In chapter seven, you will create a table with the name Feature_Extraction, which has eight columns: feature_id (primary key), suspect_id (foreign key), feature1, feature2, feature3, feature4, feature5, and feature6. The six fields (except keys) will have VARBINARY(MAX) data type. You will also create GUI to display, edit, insert, and delete for

this table. In chapter eight, you will create two tables, Police and Investigator. The Police table has six columns: police_id (primary key), province, city, address, telephone, and photo. The Investigator table has eight columns: investigator_id (primary key), investigator_name, rank, birth_date, gender, address, telephone, and photo. You will also create GUI to display, edit, insert, and delete for both tables. In the last chapter, you will create two tables, Victim and Case_File. The Victim table has nine columns: victim_id (primary key), victim_name, crime_type, birth_date, crime_date, gender, address, telephone, and photo. The Case_File table has seven columns: case_file_id (primary key), suspect_id (foreign key), police_id (foreign key), investigator_id (foreign key), victim_id (foreign key), status, and description. You will create GUI to display, edit, insert, and delete for both tables.

Access real-world documentation and examples for the Spark platform for building large-scale, enterprise-grade machine learning applications. The past decade has seen an astonishing series of advances in machine learning. These breakthroughs are disrupting our everyday life and making an impact across every industry. Next-Generation Machine Learning with Spark provides a gentle introduction to Spark and Spark MLlib and advances to more powerful, third-party machine learning algorithms and libraries beyond what is available in the standard Spark MLlib library. By the end of this book, you will be able to apply your knowledge to real-world use cases through dozens of practical examples and insightful explanations. What You Will Learn Be introduced to machine learning, Spark, and Spark MLlib 2.4.x Achieve lightning-fast gradient boosting on Spark with the XGBoost4J-Spark and LightGBM libraries Detect anomalies with the Isolation Forest algorithm for Spark Use the Spark NLP and Stanford CoreNLP libraries that support multiple languages

Optimize your ML workload with the Alluxio in-memory data accelerator for Spark Use GraphX and GraphFrames for Graph Analysis Perform image recognition using convolutional neural networks Utilize the Keras framework and distributed deep learning libraries with Spark Who This Book Is For Data scientists and machine learning engineers who want to take their knowledge to the next level and use Spark and more powerful, next-generation algorithms and libraries beyond what is available in the standard Spark MLlib library; also serves as a primer for aspiring data scientists and engineers who need an introduction to machine learning, Spark, and Spark MLlib.

Your Python code may run correctly, but you need it to run faster. Updated for Python 3, this expanded edition shows you how to locate performance bottlenecks and significantly speed up your code in high-data-volume programs. By exploring the fundamental theory behind design choices, High Performance Python helps you gain a deeper understanding of Python's implementation. How do you take advantage of multicore architectures or clusters? Or build a system that scales up and down without losing reliability? Experienced Python programmers will learn concrete solutions to many issues, along with war stories from companies that use high-performance Python for social media analytics, productionized machine learning, and more. Get a better grasp of NumPy, Cython, and profilers Learn how Python abstracts the underlying computer architecture Use profiling to find bottlenecks in CPU time and memory usage Write efficient programs by choosing appropriate data structures Speed up matrix and vector computations Use tools to compile Python down to machine code Manage multiple I/O and computational operations concurrently Convert multiprocessing code to run on local or remote

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