Python Data Science Essentials

Become an efficient data science practitioner by thoroughly understanding the key concepts of Python

Alberto Boschetti

Luca Massaron

Python Data Science Essentials Learn The Fundamentals Of Data Science With Python

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   Python Data Science Essentials Alberto Boschetti,Luca Massaron,2018-09-28 Gain useful insights from your data using popular data science tools Key FeaturesA one stop guide to Python libraries such as pandas and NumPyComprehensive coverage of data science operations such as data cleaning and data manipulationChoose scalable learning algorithms for your data science tasksBook Description Fully expanded and upgraded the latest edition of Python Data Science Essentials will help you succeed in data science operations using the most common Python libraries This book offers up to date insight into the core of Python including the latest versions of the Jupyter Notebook NumPy pandas and scikit learn The book covers detailed examples and large hybrid datasets to help you grasp essential statistical techniques for data collection data munging and analysis visualization and reporting activities You will also gain an understanding of advanced data science topics such as machine learning algorithms distributed computing tuning predictive models and natural language processing Furthermore You ll also be introduced to deep learning and gradient boosting solutions such as XGBoost LightGBM and CatBoost By the end of the book you will have gained a complete overview of the principal machine learning algorithms graph analysis techniques and all the visualization and deployment instruments that make it easier to present your results to an audience of both data science experts and business users What you will learnSet up your data science toolbox on Windows Mac and LinuxUse the core machine learning methods offered by the scikit learn libraryManipulate fix and explore data to solve data science problemsLearn advanced explorative and manipulative techniques to solve data operationsOptimize your machine learning models for optimized performanceExplore and cluster graphs taking advantage of interconnections and links in your dataWho this book is for If you re a data science entrant data analyst or data engineer this book will help you get ready to tackle real world data science problems without wasting any time Basic knowledge of probability statistics and Python coding experience will assist you in understanding the concepts covered in this book   **Data Science for Beginners** Andrew Park,2020-01-26 Master the world of Python Data Analysis Machine Learning and Data Science with this comprehensive 4 in 1 bundle Do you want to learn more about the amazing world of Data Science Or are you interested in becoming a Python geek Then keep reading Created with the beginner in mind this powerful bundle delves into the fundamentals behind Python and Data Science from basic code and concepts to complex Neural Networks and data manipulation Inside you ll discover everything you need to know to get started with Python and Data Science and begin your journey to success In book one PYTHON FOR BEGINNERS you will learn How to install Python What are the different Python Data Types Variables and Basic Operators Data Structures Functions and Files Conditional and Loops in Python Object Oriented Programming OOP Inheritance and Polymorphism Essential Programming Tools and Exception Handling An application to Decision Trees And Much More In book two PYTHON FOR DATA ANALYSIS you will learn What Data Analysis is all about and why businesses are investing in this sector The 5 steps of a Data Analysis Neural Network The 7 Python

libraries that make Python one of the best choices for Data Analysis How Data Visualization and Matplotlib can help you to understand the data you are working with Some of the main industries that are using data to improve their business with 14 real world applications And Much More In book three PYTHON MACHINE LEARNING you will learn What is Machine Learning and how it is applied in real world situations Understanding the differences between Machine Learning Deep Learning and Artificial Intelligence Machine learning training models Regression techniques and Linear Regression in Python How to use Lists and Modules in Python The 12 essential libraries for Machine Learning in Python Artificial Neural Networks And Much More And in book four PYTHON DATA SCIENCE you will learn What Data Science is all about and why so many companies are using it to give them a competitive edge Why Python and how to use it to implement Data Science The main Data Structures Object Oriented Programming Functions and Modules in Python with practical codes and exercises The 7 most important algorithms and models in Data Science Data Aggregation Group Operations Databases and Data in the Cloud 9 important Data Mining techniques in Data Science And So Much More Whether you re a complete beginner or a programmer looking to improve his skillset Data Science for Beginners is your all in one solution to mastering the world of Python and Data Science Would you like to know more Scroll Up and Click on the BUY NOW Button to Get Your Copy

Python Data Science Handbook Jake VanderPlas,2022-12-06 Python is a first class tool for many researchers primarily because of its libraries for storing manipulating and gaining insight from data Several resources exist for individual pieces of this data science stack but only with the new edition of Python Data Science Handbook do you get them all IPython NumPy pandas Matplotlib scikit learn and other related tools Working scientists and data crunchers familiar with reading and writing Python code will find the second edition of this comprehensive desk reference ideal for tackling day to day issues manipulating transforming and cleaning data visualizing different types of data and using data to build statistical or machine learning models Quite simply this is the must have reference for scientific computing in Python With this handbook you ll learn how IPython and Jupyter provide computational environments for scientists using Python NumPy includes the ndarray for efficient storage and manipulation of dense data arrays Pandas contains the DataFrame for efficient storage and manipulation of labeled columnar data Matplotlib includes capabilities for a flexible range of data visualizations Scikit learn helps you build efficient and clean Python implementations of the most important and established machine learning algorithms   Artificial Intelligence and Data Science Dr. Dhananjaya Reddy, Dr. Love Kumar, Dr. Vinod Wamanrao Gangane, Mr. Yadavalli Suresh Kumar,2026-01-30 Artificial Intelligence and Data Science is a comprehensive academic text that explores the principles techniques and applications of intelligent systems and data driven decision making The book covers core topics such as data collection and preprocessing exploratory data analysis probability and statistics machine learning algorithms deep learning natural language processing computer vision big data technologies and model evaluation techniques It emphasizes the integration of artificial intelligence methods with data science tools to extract meaningful

insights from structured and unstructured data Through practical examples case studies and real world applications in healthcare finance business and engineering the book helps students and professionals develop analytical computational and problem solving skills required to design and implement intelligent data driven solutions **Python for Data Science For Dummies** John Paul Mueller,Luca Massaron,2019-02-27 The fast and easy way to learn Python programming and statistics Python is a general purpose programming language created in the late 1980s and named after Monty Python that s used by thousands of people to do things from testing microchips at Intel to powering Instagram to building video games with the PyGame library Python For Data Science For Dummies is written for people who are new to data analysis and discusses the basics of Python data analysis programming and statistics The book also discusses Google Colab which makes it possible to write Python code in the cloud Get started with data science and Python Visualize information Wrangle data Learn from data The book provides the statistical background needed to get started in data science programming including probability random distributions hypothesis testing confidence intervals and building regression models for prediction **Data Science Fundamentals Part 1** Jonathan Dinu,2017 20 Hours of Video Instruction Data Science Fundamentals LiveLessons teaches you the foundational concepts theory and techniques you need to know to become an effective data scientist The videos present you with applied example driven lessons in Python and its associated ecosystem of libraries where you get your hands dirty with real datasets and see real results Description If nothing else by the end of this video course you will have analyzed a number of datasets from the wild built a handful of applications and applied machine learning algorithms in meaningful ways to get real results And along the way you learn the best practices and computational techniques used by a professional data scientist More specifically you learn how to acquire data that is openly accessible on the Internet by working with APIs You learn how to parse XML and JSON data to load it into a relational database About the Instructor Jonathan Dinu is an author researcher and most importantly an educator He is currently pursuing a Ph D in Computer Science at Carnegie Mellon s Human Computer Interaction Institute HCII where he is working to democratize machine learning and artificial intelligence through interpretable and interactive algorithms Previously he founded Zipfian Academy an immersive data science training program acquired by Galvanize has taught classes at the University of San Francisco and has built a Data Visualization MOOC with Udacity In addition to his professional data science experience he has run data science trainings for a Fortune 500 company and taught workshops at Strata PyData and DataWeek among others He first discovered his love of all things data while studying Computer Science and Physics at UC Berkeley and in a former life he worked for Alpine Data Labs developing distributed machine learning algorithms for predictive analytics on Hadoop Jonathan has always had a passion for sharing the things he has learned in the most creative ways he can When he is not working with students you can find him blogging about data visualization and education at hopelessoptimism com or rambling on Twitter jonathandinu Skill Level Beginner What You Will Learn How to get up and running with a Python data science environment

The essentials of Python 3 including object oriented programming The basics of the data science process and what each step entails How to build a simple yet powerful recommendation engine for Air **Python Data Science Handbook** Jake VanderPlas,2016-11-21 For many researchers Python is a first class tool mainly because of its libraries for storing manipulating and gaining insight from data Several resources exist for individual pieces of this data science stack but only with the Python Data Science Handbook do you get them all IPython NumPy Pandas Matplotlib Scikit Learn and other related tools Working scientists and data crunchers familiar with reading and writing Python code will find this comprehensive desk reference ideal for tackling day to day issues manipulating transforming and cleaning data visualizing different types of data and using data to build statistical or machine learning models Quite simply this is the must have reference for scientific computing in Python With this handbook you ll learn how to use IPython and Jupyter provide computational environments for data scientists using Python NumPy includes the ndarray for efficient storage and manipulation of dense data arrays in Python Pandas features the DataFrame for efficient storage and manipulation of labeled columnar data in Python Matplotlib includes capabilities for a flexible range of data visualizations in Python Scikit Learn for efficient and clean Python implementations of the most important and established machine learning algorithms **Python Data Science Essentials** MARK JOHN LADO,2024-03-18 The field of data science has emerged as a critical component in extracting actionable insights and making informed decisions from vast amounts of data This comprehensive guide explores the fundamentals of data science using the Python language a versatile toolset widely adopted in the industry The journey begins with an introduction to data science outlining its principles methodologies and real world applications Next the basics of Python programming are covered providing a solid foundation for data manipulation and analysis Data types and structures in Python are then explored followed by an in depth look at essential libraries such as NumPy and Pandas which facilitate efficient data handling and manipulation The importance of data visualization is emphasized through tutorials on Matplotlib and Seaborn enabling effective communication of insights and trends Data cleaning and preprocessing techniques are discussed addressing common challenges in data quality and preparation Statistical analysis is introduced as a fundamental aspect of data science showcasing its applications in hypothesis testing correlation analysis and regression modeling using Python Machine learning concepts are then explored covering both supervised and unsupervised learning algorithms including linear regression decision trees clustering and dimensionality reduction Model evaluation and validation techniques are essential for assessing model performance and generalization ability ensuring robust and reliable predictions Additionally an introduction to deep learning with Python provides insights into advanced neural network architectures and their applications in solving complex problems Handling big data is a critical aspect of modern data science and this guide provides an overview of using Python and Spark for scalable and distributed data processing Real world case studies across various domains illustrate the practical applications of data science techniques from e commerce recommendation systems to

healthcare analytics Finally best practices and tips for data science projects are discussed highlighting key considerations for project success including data exploration feature engineering model selection and collaboration By mastering these fundamentals aspiring data scientists can embark on their journey with confidence equipped to tackle real world challenges and drive impactful insights from data   **Machine Learning Hero** Cuantum Technologies,2024-10-07 This Book grants Free Access to our e learning Platform which includes Free Repository Code with all code blocks used in this book Access to Free Chapters of all our library of programming published books Free premium customer support Much more Become a Machine Learning Hero and Master Data Science with Python In a world driven by data mastering machine learning is your key to unlocking new opportunities and solving complex problems Whether you re a beginner or a professional looking to sharpen your skills Machine Learning Hero Master Data Science with Python Essentials is your guide to becoming proficient in machine learning and data science This book provides a step by step journey into data science using Python giving you the tools and knowledge to solve real world problems confidently What You Will Learn Master Python for Data Science Learn how to use Python and essential data science libraries such as NumPy Pandas Matplotlib Seaborn and Scikit learn to manipulate visualize and analyze data efficiently Prepare Data for Machine Learning Explore techniques for cleaning transforming and preparing raw data including handling missing values feature scaling and encoding categorical variables to ensure your models are accurate and reliable Build Classical Machine Learning Models Understand and implement popular machine learning algorithms such as Linear and Polynomial Regression for predicting continuous outcomes Classification algorithms like Support Vector Machines SVMs K Nearest Neighbors KNN and Decision Trees to categorize data K Means Clustering for discovering patterns in data without labels Master Feature Engineering Learn the art of feature engineering transforming raw data into features that improve model performance Feature engineering is key to building effective machine learning models that produce meaningful results Hands On Projects to Solidify Learning Put theory into practice with hands on projects designed to help you apply machine learning techniques in real world scenarios Predict Car Prices Use linear regression to estimate car prices based on factors like mileage year and make Customer Segmentation Use K Means clustering to group customers by behavior helping businesses understand their clients better Classification Models Apply classification algorithms to predict survival on the Titanic using precision recall and AUC ROC metrics to evaluate performance These projects reinforce the key concepts and ensure you gain the practical experience needed to tackle real world data challenges Who Is This Book For Aspiring data scientists wanting to build a solid foundation in machine learning Python developers looking to expand their skillset into data science Professionals seeking to use machine learning to solve problems and make data driven decisions Whether you re just getting started or aiming to improve your machine learning skills this book provides everything you need to become a machine learning hero Start Your Journey Now With Machine Learning Hero Master Data Science with Python Essentials you ll be equipped to handle real world data challenges and

unlock the potential of machine learning across any industry Are you ready to transform your data into actionable insights and become a machine learning hero **Data Science for Beginners** Andrew Park,2021-03-17 Did you know that according to Harvard Business Review the Data Scientist is the sexiest job of the 21st century And for a reason If sexy means having rare qualities that are much in demand data scientists are already there They are expensive to hire and given the very competitive market for their services difficult to retain There simply aren t a lot of people with their combination of scientific background and computational and analytical skills Data Science is all about transforming data into business value using math and algorithms And needless to say Python is the must know programming language of the 21st century If you are interested in coding and Data Science then you must know Python to succeed in these industries Data Science for Beginners is the perfect place to start learning everything you need to succeed Contained within these six essential books are the methods concepts and important practical examples to help build your foundation for excelling at the discipline that is shaping the modern word This 6 in 1 bundle is perfect for programmers software engineers project managers and those who just want to keep up with technology Thanks to the first three books Python for Beginners Python for Intermediates and Python Advanced Guide you will Master The Basic Concepts Of Python Programming and set your way up to code like a pro don t stress if you have no clue at first everything you need is included Find A Step By Step Guide On How To Use Python and basically do nothing rather than follow the instructions so simple Build upon the fundamentals with advanced techniques like Object Oriented Programming OOP Inheritance and Polymorphism Catch On Great Ways To Develop Your Website Creation Skills and get paid to do things while you drink your coffee that easy Learn How To Build Arbitrary and Optional Arguments and find the best way to handle a circumstance not many people know these Apply Storing Functions and simultaneously improve the code and decompose complex problems into simpler pieces And There s Much More In the last three books Python for Data Analysis Python Machine Learning and Python Data Science you will Discover the importance of Data Science and how to use it in real world situations Learn the 5 steps of Data Analysis so you can comprehend and analyze data sitting right in front of you Increase your income by learning a new valuable skill that only a select handful of people take the time to learn Discover how companies can improve their business through practical examples and explanations And Much More This bundle is essential for anyone who wants to become proficient in Python or study Data Science Jump to the next level by learning new valuable skills and developing a data driven approach Order Your Copy of the Bundle and Start Your New Career Path Today **Machine Learning Hero** Cuantum Technologies LLC,2025-01-16 Learn machine learning through hands on Python projects covering core concepts essential libraries and real world applications for aspiring data scientists Key Features Comprehensive coverage of machine learning fundamentals and advanced topics Real world projects to apply skills in practical scenarios Integration of Python libraries for data science and AI development Book DescriptionThis book takes you on a journey through the world of machine learning beginning with foundational concepts

such as supervised and unsupervised learning and progressing to advanced topics like feature engineering hyperparameter tuning and dimensionality reduction Each chapter blends theory with practical exercises to ensure a deep understanding of the material The book emphasizes Python introducing essential libraries like NumPy Pandas Matplotlib and Scikit learn along with deep learning frameworks like TensorFlow and PyTorch You ll learn to preprocess data visualize insights and build models capable of tackling complex datasets Hands on coding examples and exercises reinforce concepts and help bridge the gap between knowledge and application In the final chapters you ll work on real world projects like predictive analytics clustering and regression These projects are designed to provide a practical context for the techniques learned and equip you with actionable skills for data science and AI roles By the end you ll be prepared to apply machine learning principles to solve real world challenges with confidence What you will learn Build machine learning models using Python libraries Apply feature engineering and preprocessing techniques Visualize datasets with Matplotlib and Seaborn Optimize machine learning models with hyperparameter tuning Implement clustering and dimensionality reduction methods Work on real world projects for practical experience Who this book is for Aspiring data scientists software developers and tech enthusiasts seeking to master machine learning concepts and Python libraries Basic Python knowledge is recommended but not required as foundational topics are covered   **LEARNING PyQt5** Vivian Siahaan,Rismon Hasiholan Sianipar,2019-09-06 In this book you will learn PyQt5 with accompanied by a step by step tutorial to develop mysql base applications 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 the next three chapters you will learn Basic MySQL statements including how to implement querying data sorting data filtering data joining tables grouping data subquerying data dan setting operators Aside from learning basic SQL statements you will also learn step by step how to develop stored procedures in MySQL First we introduce you to the stored procedure concept and discuss when you should use it Then we show you how to use the basic elements of the procedure code such as create procedure statement if else case loop stored procedure s parameters In the sixth chapter you will study Creating the initial three table in the School database project Teacher table Class table and Subject table Creating database configuration files Creating a Python GUI for viewing and navigating the contents of each table Creating a Python GUI for inserting and editing tables and Creating a Python GUI to merge and query the three tables In last chapter you will learn Creating the main form to connect all forms Creating a

project that will add three more tables to the school database the Student table the Parent table and the Tuition table Creating a Python GUI to view and navigate the contents of each table Creating a Python GUI for editing inserting and deleting records in each table Create a Python GUI to merge and query the three tables and all six tables Finally this book is hopefully useful for you **Python Data Science Essentials** Alberto Boschetti,2018 The Python Data Science Essentials video series takes you through all you need to know to succeed in data science using Python Get insights into the core of Python data including the latest versions of Jupyter Notebook NumPy Pandas and scikit learn In this course you will delve into building your essential Python 3 6 data science toolbox using a single source approach that will allow to work with Python 2 7 as well Get to grips fast with data munging and preprocessing and prepare for machine learning and visualization techniques Resource description page **Learn PyQt By Example: A Quick Start Guide to MySQL and SQLite Driven Programming** Vivian Siahaan,Rismon Hasiholan Sianipar,2019-11-24 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 **Modern Vim** Drew Neil,2018-05-03 Turn Vim into a full blown development environment using Vim 8 s new features and this sequel to the beloved bestseller Practical Vim Integrate your editor with tools for building testing linting indexing and searching your codebase Discover the future of Vim with Neovim a fork of Vim that includes a built in terminal emulator that will transform your workflow Whether you choose to switch to Neovim or stick with Vim 8 you ll be a better developer A serious tool for programmers and web developers no other text editor comes close to Vim for speed and efficiency Make Vim the centerpiece of a Unix based IDE as you discover new ways to work with Vim 8 and Neovim in more than 20 hands on tips Execute tasks asynchronously allowing you to continue in Vim while linting grepping building a project or running a test suite Install plugins to be loaded on startup or on demand when you need them with Vim 8 s new package support Save and restore sessions enabling you to quit Vim and restart again while preserving your window layout and undo history Use Neovim as a drop in replacement for Vim it supports all of the features Vim 8 offers and more including an integrated terminal that lets you quickly perform interactive commands And if you enjoy using tmux and Vim together you ll love Neovim s terminal emulator which lets you run an interactive shell in a buffer The terminal buffers fit naturally with Vim s split windows and you can use Normal mode commands to scroll search copy and paste On top of all that Neovim s terminal buffers are scriptable With Vim at the core of your development environment you ll become a faster and more efficient developer What You Need You ll need a Unix based environment and an up to date release of Vim 8 0 or newer For the tips about running a terminal emulator you ll need to install Neovim *Learn PyQt The Hard Way: A Quick Start Guide to PostgreSQL and SQLite Driven Programming* Vivian Siahaan,Rismon Hasiholan Sianipar,2019-11-25 This book explains relational theory in practice and demonstrates through two projects how you can apply it to your use of PostgreSQL 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 PostgreSQL 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 and chapter seven you will get introduction of postgresql And then 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 eight you will create dan configure PotgreSQL 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 nine 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 a VARCHAR data type 200 You will also create GUI to display edit insert and delete for this table In chapter ten 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 chapter eleven 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 as well   **Learning PyQt5 with MariaDB for Absolute Beginners** Vivian Siahaan,Rismon Hasiholan Sianipar,2019-09-07 This book is mariadb based python programming Intentionally designed for various levels of interest and ability of learners this book is suitable for students engineers and even researchers in a variety of disciplines No advanced programming experience is needed and only a few school level programming skill are needed 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 third chapter 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 fourth chapter 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 the last chapter you will join the six classes Teacher TClass Subject Student Parent and Tuition and make queries over those tables   *Machine Learning in Finance* Musa Gün,Burcu Kartal,2025-03-29 This book discusses the evolution of technical features in decentralized finance and focuses on machine learning finance in emerging economies As technological advancement evolves at an unpredictable pace the financial industry like every other sector must adapt accordingly Furthermore the rapid expansion of diverse financial products and services is creating new applications and markets Alongside technological progress the exploration of complex patterns in vast amounts of data known as big data is facilitated by its commonly acknowledged characteristics volume variety veracity value and velocity Overall machine learning has become crucial in the financial industry allowing businesses to automate operations gain insights from data and make more informed decisions in real time This edited book covers algorithmic trading risk management fraud detection customer service and personalization portfolio management credit scoring sentiment analysis and algorithmic pricing The book connects theoretical concepts with practical real world applications benefiting professionals looking to enhance their proficiency in using these methods efficiently It offers insightful guidance for theorists market participants and policymakers by exploring financial theories and practices in light of contemporary machine learning

approaches with a special emphasis on emerging economies   **Python Data Science** Christopher Wilkinson,2019-10-26 An Ultimate Guide to Learn Fundamentals of Python Data Science is full of insights and strategies for data scientists programming professionals and students who want to equip themselves with the new trending libraries and functions of Python as a data management tool This book has all the major techniques of data collection interpretation and processing to achieve refined information The reader will learn about the scientific research of data syntax of Python programming language and all the basic knowledge of imported libraries and methods An effective approach of Python data science can save time resources and energy You can learn to help any company with the running processes accounts HR modules sales services and more Keeping in view the requirements of brand and competition this guide for beginners covers all the data management strategies and tactics The development of the well structured function of Python is purely a systematic and knowledge based technique Building a scientific data research system has never been as easy as it is today A lot of companies have shifted their data systems to the open source easy to learn Python language If you really want to learn Python Data Science don t waste your time looking around buy this extraordinary book now to get started It is a detailed book with a comprehensive knowledge of data science Python data structures standard libraries data science frameworks and predictive models in Python Build your success story through learning the best practices of data science Click the Buy button to get started   **Python Data Science** Andrew Park,2021-04-27 55% OFF for Bookstores NOW at 12 59 instead of 27 97 LAST DAYS Do you want to learn More about Data Science or how to master it with Python Your Customers Will Love This Amazing Guide If you want to learn more about Data Science or how to master it with the Python Programming Language then keep reading Data Science is one of the biggest buzzwords in the business world nowadays Many businesses know the importance of collecting information but as they can collect so much data in a short period the real question is what is the next step Data Science includes all the different steps that you take with the data collecting and cleaning them if they come from more than one source analyzing them applying Machine Learning algorithms and models and then presenting your findings from the analysis with some good Data Visualizations And this is what you will learn in Python Data Science You will learn about the main steps that are needed to correctly implement Data Science techniques and the algorithms to help you sort through the data and see some amazing results Some of the topics that we will discuss inside include What data science is all about and why so many companies are using it to give them a competitive edge Why Python and how to use it to implement Data Science What is the intersection between Machine Learning and Data Science and how to combine them The main Data Structures Object Oriented Python with practical codes and exercises to use Python Functions and Modules in Python The 7 most important algorithms and models in Data Science Data Aggregation and Group Operations 9 important Data Mining techniques in Data Science Interaction with databases and data in the cloud And Much More Where most books only focus on how collecting and cleaning the data this book goes further providing guidance on how to perform a proper

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Table of Contents Python Data Science Essentials Learn The Fundamentals Of Data Science With Python

1. Understanding the eBook Python Data Science Essentials Learn The Fundamentals Of Data Science With Python
    - The Rise of Digital Reading Python Data Science Essentials Learn The Fundamentals Of Data Science With Python
    - Advantages of eBooks Over Traditional Books
2. Identifying Python Data Science Essentials Learn The Fundamentals Of Data Science With Python
    - Exploring Different Genres
    - Considering Fiction vs. Non-Fiction
    - Determining Your Reading Goals
3. Choosing the Right eBook Platform
    - Popular eBook Platforms
    - Features to Look for in an Python Data Science Essentials Learn The Fundamentals Of Data Science With Python
    - User-Friendly Interface
4. Exploring eBook Recommendations from Python Data Science Essentials Learn The Fundamentals Of Data Science With Python
    - Personalized Recommendations
    - Python Data Science Essentials Learn The Fundamentals Of Data Science With Python User Reviews and Ratings
    - Python Data Science Essentials Learn The Fundamentals Of Data Science With Python and Bestseller Lists

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