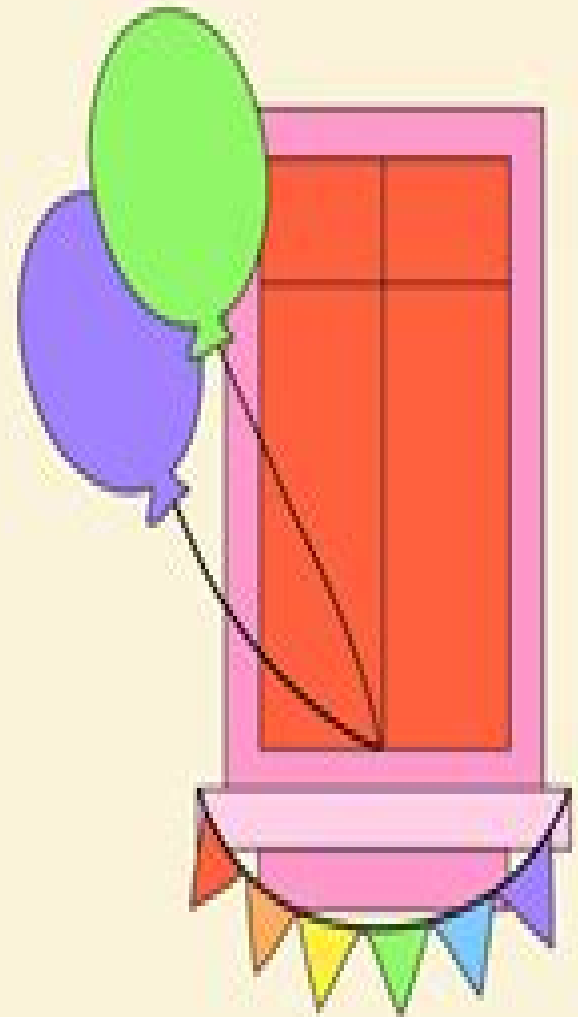


 COURSE

# Practical Python Programming



# Practical Python

**Andreas François Vermeulen**



## **Practical Python:**

*Practical Python Programming for IoT* Gary Smart, 2020-11-12 Create innovative IoT projects using Python and Raspberry Pi with this hands on guide packed with fun experiments real world applications and everything you need to bring smart ideas to life Key Features Learn the fundamentals of electronics and how to integrate them with a Raspberry Pi Bring your projects to life through real world scenarios from motion detection to smart lighting Exercises designed to suit hobbyists engineers and educators alike Book Description The age of connected devices is here be it fitness bands or smart homes It s now more important than ever to understand how hardware components interact with the internet to collect and analyze user data The Internet of Things IoT combined with the popular open source language Python can be used to build powerful and intelligent IoT systems with intuitive interfaces This book consists of three parts with the first focusing on the Internet component of IoT You ll get to grips with end to end IoT app development to control an LED over the internet before learning how to build RESTful APIs WebSocket APIs and MQTT services in Python The second part delves into the fundamentals behind electronics and GPIO interfacing As you progress to the last part you ll focus on the Things aspect of IoT where you will learn how to connect and control a range of electronic sensors and actuators using Python You ll also explore a variety of topics such as motor control ultrasonic sensors and temperature measurement Finally you ll get up to speed with advanced IoT programming techniques in Python integrate with IoT visualization and automation platforms and build a comprehensive IoT project By the end of this book you ll be well versed with IoT development and have the knowledge you need to build sophisticated IoT systems using Python What you will learn Understand electronic interfacing with Raspberry Pi from scratch Gain knowledge of building sensor and actuator electronic circuits Structure your code in Python using Async IO pub sub models and more Automate real world IoT projects using sensor and actuator integration Integrate electronics with ThingSpeak and IFTTT to enable automation Build and use RESTful APIs WebSockets and MQTT with sensors and actuators Set up a Raspberry Pi and Python development environment for IoT projects Who this book is for Whether you re a developer IoT professional or a Python enthusiast curious about hardware this book is for you It s also helpful for software engineers with little to no experience in electronics who want to start building real world IoT and home automation projects Makers educators and tinkerers will find it a practical and approachable guide With clear explanations and hands on projects it makes bringing your code to life enjoyable and achievable [Practical Python Data Wrangling and Data Quality](#) Susan E. McGregor, 2021-12-03 There are awesome discoveries to be made and valuable stories to be told in datasets and this book will help you uncover them Whether you already work with data or just want to understand its possibilities the techniques and advice in this practical book will help you learn how to better clean evaluate and analyze data to generate meaningful insights and compelling visualizations Through foundational concepts and worked examples author Susan McGregor provides the concepts and tools you need to evaluate and analyze all kinds of data and communicate your findings effectively This

book provides a methodical jargon free way for practitioners of all levels to harness the power of data Use Python 3.8 to read write and transform data from a variety of sources Understand and use programming basics in Python to wrangle data at scale Organize document and structure your code using best practices Complete exercises either on your own machine or on the web Collect data from structured data files web pages and APIs Perform basic statistical analysis to make meaning from data sets Visualize and present data in clear and compelling ways

**Practical Python** Magnus Lie Hetland, 2002 Practical Python offers a highly useful guide to the Python programming language In disarmingly readable prose author Magnus Lie Hetland guides you through those concepts of most importance to the budding Python developer Following a succinct overview of the installation process Hetland brings you up to speed regarding the general programming precepts common to every high level language including datatypes conditionals and looping abstractions and modularity Notably Hetland takes great care to provide a thorough introduction to Python's potentially confusing datatype offering including lists tuples and dictionaries providing numerous examples aimed toward familiarizing you with their subtle yet important differences Primed with the language's foundational knowledge you'll then be introduced to Python's file handling database graphical user interface and string handling capabilities Additionally Hetland offers an excellent review of Python's object oriented functional and exception handling capabilities All chapters are peppered with references to Python's useful built in functions which is done with the intention of demonstrating the considerable features offered by the default Python distribution Hetland devotes the second half of the book to project development taking great care to choose a series of ten increasingly complex applications that are of timely and wide ranging interest to burgeoning and expert developers alike Project focus includes automated document conversion newsgroup administration graphical PDF document generation remote document maintenance the creation of a peer to peer system with XML RPC database integration and GUI and game development

**Practical MLOps** Noah Gift, Alfredo Deza, 2021-09-14 Getting your models into production is the fundamental challenge of machine learning MLOps offers a set of proven principles aimed at solving this problem in a reliable and automated way This insightful guide takes you through what MLOps is and how it differs from DevOps and shows you how to put it into practice to operationalize your machine learning models Current and aspiring machine learning engineers or anyone familiar with data science and Python will build a foundation in MLOps tools and methods along with AutoML and monitoring and logging then learn how to implement them in AWS Microsoft Azure and Google Cloud The faster you deliver a machine learning system that works the faster you can focus on the business problems you're trying to crack This book gives you a head start You'll discover how to Apply DevOps best practices to machine learning Build production machine learning systems and maintain them Monitor instrument load test and operationalize machine learning systems Choose the correct MLOps tools for a given machine learning task Run machine learning models on a variety of platforms and devices including mobile phones and specialized hardware

**Practical Django Projects** James Bennett, 2009-07-31 Build a Django content

management system blog and social networking site with James Bennett as he introduces version 1.1 of the popular Django framework. You'll work through the development of each project implementing and running the applications while learning new features along the way. Web frameworks are playing a major role in the creation of today's most compelling web applications because they automate many of the tedious tasks allowing developers to instead focus on providing users with creative and powerful features. Python developers have been particularly fortunate in this area having been able to take advantage of Django, a very popular open source web framework whose stated goal is to make it easier to build better web applications more quickly with less code. Practical Django Projects introduces this popular framework by way of a series of real world projects. Readers follow along with the development of each project implementing and running each application while learning new features along the way. This edition is updated for Django 1.1 and includes an all new chapter covering practical development tools and techniques you'll be able to apply to your own development workflow.

**Practical Data Science for Information Professionals** David Stuart, 2020-07-24 Practical Data Science for Information Professionals provides an accessible introduction to a potentially complex field providing readers with an overview of data science and a framework for its application. It provides detailed examples and analysis on real data sets to explore the basics of the subject in three principle areas: clustering and social network analysis, predictions and forecasts, and text analysis and mining. As well as highlighting a wealth of user friendly data science tools, the book also includes some example code in two of the most popular programming languages, R and Python, to demonstrate the ease with which the information professional can move beyond the graphical user interface and achieve significant analysis with just a few lines of code. After reading, readers will understand the growing importance of data science, the role of the information professional in data science, some of the most important tools and methods that information professionals can use. Bringing together the growing importance of data science and the increasing role of information professionals in the management and use of data, Practical Data Science for Information Professionals will provide a practical introduction to the topic specifically designed for the information community. It will appeal to librarians and information professionals all around the world from large academic libraries to small research libraries. By focusing on the application of open source software, it aims to reduce barriers for readers to use the lessons learned within.

**Practical Data Science** Andreas François Vermeulen, 2018-02-21 Learn how to build a data science technology stack and perform good data science with repeatable methods. You will learn how to turn data lakes into business assets. The data science technology stack demonstrated in Practical Data Science is built from components in general use in the industry. Data scientist Andreas Vermeulen demonstrates in detail how to build and provision a technology stack to yield repeatable results. He shows you how to apply practical methods to extract actionable business knowledge from data lakes consisting of data from a polyglot of data types and dimensions. What You'll Learn: Become fluent in the essential concepts and terminology of data science and data engineering. Build and use a technology stack that meets industry criteria. Master

the methods for retrieving actionable business knowledge Coordinate the handling of polyglot data types in a data lake for repeatable results Who This Book Is For Data scientists and data engineers who are required to convert data from a data lake into actionable knowledge for their business and students who aspire to be data scientists and data engineers [Practical Python Programming Practices \(101 Common Projects\)](#) Ejike Ifeanyichukwu, Emenwa Global, 2021-04-13 Welcome to 101 Python programming best practices for absolute beginner Learning Python programming language and understanding Python programming language are two different things Almost every student enjoys learning Python programming language But only a few number of these students actually understand Python programming language afterwards This is where the remaining students are left behind and kept wandering from one course to another over the internet to get the best knowledge on understanding Python programming language with cups of coffee on their table everyday 101 Python programming best practices for absolute beginner is a comprehensive and concise guide that is designed to pick up every interested student from the state of zero knowledge to a state of Hero knowledge in Python programming with lots of practical Python projects Why Must I Take This Course Emenwa Global instructors are industry experts with years of practical real world experience building software at industry leading companies They are sharing everything they know to teach thousands of students around the world just like you the most in demand technical and non technical skills which are commonly overlooked in the most efficient way so that you can take control of your life and unlock endless exciting new career opportunities in the world of technology no matter your background or experience *PRACTICAL PYTHON PROGRAMMING PRACTICES (101 COMMON PROJECTS)* EJIKE. IFEANYICHUKWU, 2021 **Practical Time Series Forecasting with R** Galit Shmueli, Julia Polak, 2024-02-24 Practical Time Series Forecasting with R A Hands On Guide Third Edition provides an applied approach to time series forecasting Forecasting is an essential component of predictive analytics The book introduces popular forecasting methods and approaches used in a variety of business applications The book offers clear explanations practical examples and end of chapter exercises and cases Readers will learn to use forecasting methods using the free open source R software to develop effective forecasting solutions that extract business value from time series data This edition features the R fable package full color enhanced organization and new material It includes Popular forecasting methods including smoothing algorithms regression models ARIMA neural networks deep learning and ensembles A practical approach to evaluating the performance of forecasting solutions A business analytics exposition focused on linking time series forecasting to business goals Guided cases for integrating the acquired knowledge using real data End of chapter problems to facilitate active learning Data R code and instructor materials on companion website Affordable and globally available textbook available in hardcover paperback and Kindle formats Practical Time Series Forecasting with R A Hands On Guide Third Edition is the perfect textbook for upper undergraduate graduate and MBA level courses as well as professional programs in data science and business analytics The book is also designed for practitioners in

the fields of operations research supply chain management marketing economics information systems finance and management

**Practical Artificial Intelligence with Swift** Mars Geldard,Jonathon Manning,Paris Buttfield-Addison,Tim Nugent,2019-09-03 Create and implement AI based features in your Swift apps for iOS macOS tvOS and watchOS With this practical book programmers and developers of all kinds will find a one stop shop for AI and machine learning with Swift Taking a task based approach you ll learn how to build features that use powerful AI features to identify images make predictions generate content recommend things and more AI is increasingly essential for every developer and you don t need to be a data scientist or mathematician to take advantage of it in your apps Explore Swift based AI and ML techniques for building applications Learn where and how AI driven features make sense Inspect tools such as Apple s Python powered Turi Create and Google s Swift for TensorFlow to train and build models I Fundamentals and Tools Learn AI basics our task based approach and discover how to build or find a dataset II Task Based AI Build vision audio text motion and augmentation related features learn how to convert preexisting models III Beyond Discover the theory behind task based practice explore AI and ML methods and learn how you can build it all from scratch if you want to *Machine Learning for Practical Decision Making* Christo El Morr,Manar Jammal,Hossam Ali-Hassan,Walid El-Hallak,2022-11-29 This book provides a hands on introduction to Machine Learning ML from a multidisciplinary perspective that does not require a background in data science or computer science It explains ML using simple language and a straightforward approach guided by real world examples in areas such as health informatics information technology and business analytics The book will help readers understand the various key algorithms major software tools and their applications Moreover through examples from the healthcare and business analytics fields it demonstrates how and when ML can help them make better decisions in their disciplines The book is chiefly intended for undergraduate and graduate students who are taking an introductory course in machine learning It will also benefit data analysts and anyone interested in learning ML approaches [The The Python Workshop](#) Andrew Bird,Dr Lau Cher Han,Mario Corchero Jiménez,Graham Lee,Corey Wade,2019-11-06 Learn the fundamentals of clean effective Python coding and build the practical skills to tackle your own software development or data science projects Key FeaturesBuild key Python skills with engaging development tasks and challenging activitiesImplement useful algorithms and write programs to solve real world problemsApply Python in realistic data science projects and create simple machine learning modelsBook Description Have you always wanted to learn Python but never quite known how to start More applications than we realize are being developed using Python because it is easy to learn read and write You can now start learning the language quickly and effectively with the help of this interactive tutorial The Python Workshop starts by showing you how to correctly apply Python syntax to write simple programs and how to use appropriate Python structures to store and retrieve data You ll see how to handle files deal with errors and use classes and methods to write concise reusable and efficient code As you advance you ll understand how to use the standard library debug code to troubleshoot

problems and write unit tests to validate application behavior You ll gain insights into using the pandas and NumPy libraries for analyzing data and the graphical libraries of Matplotlib and Seaborn to create impactful data visualizations By focusing on entry level data science you ll build your practical Python skills in a way that mirrors real world development Finally you ll discover the key steps in building and using simple machine learning algorithms By the end of this Python book you ll have the knowledge skills and confidence to creatively tackle your own ambitious projects with Python What you will learnWrite clean and well commented code that is easy to maintainAutomate essential day to day tasks with Python scriptsDebug logical errors and handle exceptions in your programsExplore data science fundamentals and create engaging visualizationsGet started with predictive machine learningKeep your development process bug free with automated testingWho this book is for This book is designed for anyone who is new to the Python programming language Whether you re an aspiring software engineer or data scientist or are just curious about learning how to code with Python this book is for you No prior programming experience is required

**The Python Workshop** Corey Wade,Mario Corchero Jimenez,Andrew Bird,Dr. Lau Cher Han,Graham Lee,2022-11-18 Gain proficiency productivity and power by working on projects and kick starting your career in Python with this comprehensive hands on guide Key FeaturesUnderstand and utilize Python syntax objects methods and best practicesExplore Python s many features and libraries through real world problems and big dataUse your newly acquired Python skills in machine learning as well as web and software developmentBook Description Python is among the most popular programming languages in the world It s ideal for beginners because it s easy to read and write and for developers because it s widely available with a strong support community extensive documentation and phenomenal libraries both built in and user contributed This project based course has been designed by a team of expert authors to get you up and running with Python You ll work though engaging projects that ll enable you to leverage your newfound Python skills efficiently in technical jobs personal projects and job interviews The book will help you gain an edge in data science web development and software development preparing you to tackle real world challenges in Python and pursue advanced topics on your own Throughout the chapters each component has been explicitly designed to engage and stimulate different parts of the brain so that you can retain and apply what you learn in the practical context with maximum impact By completing the course from start to finish you ll walk away feeling capable of tackling any real world Python development problem What you will learnWrite efficient and concise functions using core Python methods and librariesBuild classes to address different business needsCreate visual graphs to communicate key data insightsOrganize big data and use machine learning to make regression and classification predictionsDevelop web pages and programs with Python tools and packagesAutomate essential tasks using Python scripts in real time executionWho this book is for This book is for professionals students and hobbyists who want to learn Python and apply it to solve challenging real world problems Although this is a beginner s course you ll learn more easily if you already have an understanding of standard programming topics like variables if else statements and



functions Experience with another object oriented program though not essential will also be beneficial If Python is your first attempt at computer programming this book will help you understand the basics with adequate detail for a motivated student

**Python in Depth** Nathan Venture, D,2024-08-19 Step Into the Future of Coding with Python Your Comprehensive Guide Awaits Dive into the vibrant universe of Python and emerge as a skilled coder and programmer equipped with the knowledge to tackle any challenge the digital world throws your way Python in Depth A Multipurpose Coder and Programmer s Guide is not just another programming book it s a beacon guiding you through the ever evolving landscape of Python from basic concepts to the most advanced applications Begin your journey with an insightful introduction that not only welcomes you to the Python community but also prepares you for the exciting path ahead Explore the world of Python in our first chapter understanding why Python s simplicity and versatility make it the go to language for professionals worldwide Whether you re setting up your environment selecting an IDE or diving into Python s syntax and structure this guide ensures a smooth initiation into coding practices that matter But that s just the start As you progress immerse yourself in intermediate and advanced topics that are crucial for modern development From object oriented programming exception handling to exploring Python s extensive library ecosystem every chapter serves as a stepping stone towards mastery Delve into databases web frameworks like Django and Flask and unlock the potential of Python in data science machine learning and beyond What truly sets this guide apart is its dedication to not just teaching Python but doing so in a manner that promotes readability efficiency and best practices Learn how to optimize your code adhere to the Python style guide and navigate the nuances of collaborative development with ease By the end of this comprehensive guide you will not only have a deep understanding of Python s core concepts but also have the skills to apply them in real world scenarios from web development and data analysis to networking security and even creative coding Whether you re a complete beginner or looking to expand your knowledge Python in Depth A Multipurpose Coder and Programmer s Guide is the key to unlocking your full potential in today s tech driven world Embark on this transformative journey through Python and ready yourself for a future where the possibilities are limitless It s time to code create and innovate Let s get started

**Machine Learning for Biomedical Applications** Maria Deprez,Emma C. Robinson,2023-09-07 Machine Learning for Biomedical Applications With Scikit Learn and PyTorch presents machine learning techniques most commonly used in a biomedical setting Avoiding a theoretical perspective it provides a practical and interactive way of learning where concepts are presented in short descriptions followed by simple examples using biomedical data Interactive Python notebooks are provided with each chapter to complement the text and aid understanding Sections cover uses in biomedical applications practical Python coding skills mathematical tools that underpin the field core machine learning methods deep learning concepts with examples in Keras and much more This accessible and interactive introduction to machine learning and data analysis skills is suitable for undergraduates and postgraduates in biomedical engineering computer science the biomedical sciences and clinicians Gives a basic understanding of the most

fundamental concepts within machine learning and their role in biomedical data analysis Shows how to apply a range of commonly used machine learning and deep learning techniques to biomedical problems Develops practical computational skills needed to implement machine learning and deep learning models for biomedical data sets Shows how to design machine learning experiments that address specific problems related to biomedical data      **Teach Yourself VISUALLY Raspberry Pi** Richard Wentk,2014-01-27 Full color step by step guidance for learning to use Raspberry Pi Raspberry Pi is an inexpensive single board computer that serves as an introductory board for students and developing computer professionals This image driven visual guide shows you how the Raspberry Pi can be easily used as a stand alone computer a media center a web server and much more Vivid full color images bring Raspberry Pi projects to life while well illustrated circuit diagrams and step by step practical advice cover everything from working with the included software to branching out into typical but more complex endeavors Covers interesting topics for students and aspiring computer professionals Demonstrates how to create custom projects work with the Raspberry OS install other operating systems get the most out of the Raspberry Pi and much more Encourages users to study and tinker with the Raspberry Pi Teach Yourself VISUALLY Raspberry Pi is an ideal resource for anyone who learns better with visual instruction and puts them well on their way to making the most of this low cost computer      *Novel Methods in Computational Finance* Matthias Ehrhardt,Michael Günther,E. Jan W. ter Maten,2017-09-19 This book discusses the state of the art and open problems in computational finance It presents a collection of research outcomes and reviews of the work from the STRIKE project an FP7 Marie Curie Initial Training Network ITN project in which academic partners trained early stage researchers in close cooperation with a broader range of associated partners including from the private sector The aim of the project was to arrive at a deeper understanding of complex mostly nonlinear financial models and to develop effective and robust numerical schemes for solving linear and nonlinear problems arising from the mathematical theory of pricing financial derivatives and related financial products This was accomplished by means of financial modelling mathematical analysis and numerical simulations optimal control techniques and validation of models In recent years the computational complexity of mathematical models employed in financial mathematics has witnessed tremendous growth Advanced numerical techniques are now essential to the majority of present day applications in the financial industry Special attention is devoted to a uniform methodology for both testing the latest achievements and simultaneously educating young PhD students Most of the mathematical codes are linked into a novel computational finance toolbox which is provided in MATLAB and PYTHON with an open access license The book offers a valuable guide for researchers in computational finance and related areas e g energy markets with an interest in industrial mathematics      Practical AI for Business Leaders, Product Managers, and Entrepreneurs Alfred Essa,Shirin Mojarad,2022-03-21 Most economists agree that AI is a general purpose technology GPT like the steam engine electricity and the computer AI will drive innovation in all sectors of the economy for the foreseeable future Practical AI for Business

Leaders Product Managers and Entrepreneurs is a technical guidebook for the business leader or anyone responsible for leading AI related initiatives in their organization The book can also be used as a foundation to explore the ethical implications of AI Authors Alfred Essa and Shirin Mojarad provide a gentle introduction to foundational topics in AI Each topic is framed as a triad concept theory and practice The concept chapters develop the intuition culminating in a practical case study The theory chapters reveal the underlying technical machinery The practice chapters provide code in Python to implement the models discussed in the case study With this book readers will learn The technical foundations of machine learning and deep learning How to apply the core technical concepts to solve business problems The different methods used to evaluate AI models How to understand model development as a tradeoff between accuracy and generalization How to represent the computational aspects of AI using vectors and matrices How to express the models in Python by using machine learning libraries such as scikit learn statsmodels and keras

**Practical Malware Analysis** Michael Sikorski, Andrew Honig, 2012-02-01 Malware analysis is big business and attacks can cost a company dearly When malware breaches your defenses you need to act quickly to cure current infections and prevent future ones from occurring For those who want to stay ahead of the latest malware Practical Malware Analysis will teach you the tools and techniques used by professional analysts With this book as your guide you ll be able to safely analyze debug and disassemble any malicious software that comes your way You ll learn how to Set up a safe virtual environment to analyze malware Quickly extract network signatures and host based indicators Use key analysis tools like IDA Pro OllyDbg and WinDbg Overcome malware tricks like obfuscation anti disassembly anti debugging and anti virtual machine techniques Use your newfound knowledge of Windows internals for malware analysis Develop a methodology for unpacking malware and get practical experience with five of the most popular packers Analyze special cases of malware with shellcode C and 64 bit code Hands on labs throughout the book challenge you to practice and synthesize your skills as you dissect real malware samples and pages of detailed dissections offer an over the shoulder look at how the pros do it You ll learn how to crack open malware to see how it really works determine what damage it has done thoroughly clean your network and ensure that the malware never comes back Malware analysis is a cat and mouse game with rules that are constantly changing so make sure you have the fundamentals Whether you re tasked with securing one network or a thousand networks or you re making a living as a malware analyst you ll find what you need to succeed in Practical Malware Analysis

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