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Computational Frameworks for Political and Social
Research with Python

Python Projects for Beginners

Python 3 Essentials For absolute beginners and
curious cats 1st Edition (Penerbit UMK)

Introduction to Python Programming

Python Machine Learning Illustrated Guide For
Beginners & Intermediates

A Practical Implementation Guide to Predictive
Data Analytics Using Python

How to Prepare Data and Develop Models to
Predict the Future

A beginner's guide to extracting valuable insights
from your data

Effective Computation in Physics

An Open Source Guide

fastText Quick Start Guide

Learn Keras for Deep Neural Networks

Data Visualization with Python and JavaScript

Computational Modeling and Visualization of
Physical Systems with Python

Python for Excel

A Guide for Data Scientists

Problem Solving with Python 3. 7 Edition

A Ten-Week Bootcamp Approach to Python Programming

A Guide for Engineers and Scientists
Concepts, Tools, and Techniques to Build Intelligent Systems

Python Programming and Numerical Methods

Field Guide to Research with Python

Best Practices for Development

Using Python to Solve Complex Problems with a Burst of Machine Learning (English Edition)

Mastering Python for Web

Bioinformatics with Python Cookbook

Applied Supervised Learning with Python

A Beginner's Guide to Python & Open-Source Programming Tools

An Introduction to Python Programming for Scientists and Engineers

Deep Learning with PyTorch Quick Start Guide

A Student's Guide to Python for Physical Modeling: Second Edition

Python Data Analytics

Introduction to Time Series Forecasting With Python

A Primer on Scientific Programming with Python

Machine Learning with PyTorch and Scikit-Learn

Introduction to Machine Learning with Python

Mastering Machine Learning with Python in Six Steps

The Future Is Here!

Python Made Easy

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Python
Guide On
Windows
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MCGEE JADON

Computational Frameworks for Political and Social Research with Python Packt Publishing Ltd Python for Web Python definitely tops the charts when it comes to ease of use and beginner-friendly learning curve in the world of programming languages. At the same time, Python is essential when it comes to writing system scripts, processing big

data, performing mathematical computations, creating web applications, and rapid prototyping. With this Mastering edition, we have focused especially on the usage of Python for Web. This book explores Python programming fundamentals with interactive projects and introduces core coding concepts and the basics of Python-based web development. The reader should be

ready to dive deep into the world of Python for web development in no time. Since Python positions itself in web development as a back-end language, it is usually mixed with another front-end language to build a whole website. At the same time, reasons for using Python in web development are many: it is a flexible, versatile, and highly efficient programming language with dynamic typing

capacity. This book helps readers to examine Python's key back-end/front-end programming techniques and guides them through implementing them when creating professional projects. Furthermore, it also focuses on teaching readers how to solve common problems and developing web services with Python frameworks such as Django and Flask. Mastering Python for

Web has a goal more ambitious than simply teaching you the ropes - it aims to help you embrace and master problem solving, which could be viewed as the single most crucial skill for a coder. It offers you a focal point on starting as a beginner and growing into an expert by putting your newly acquired knowledge into practice. Programming is a hands-on skill, and this particular book helps

you put your skills to test with easy-to-grasp tasks and examples. Learn more about our other Mastering titles at: <https://www.ro.utledge.com/Mastering-Computer-Science/book-series/MCS-Python-Projects-for-Beginners> "O'Reilly Media, Inc." Get started and warmed up to Python 3 with Python 3 Essentials. This book is intended for both absolute beginners and curious cats. The book

explores: -
Brief
introduction to
Python -
Installing
Python in
various
methods -
Using Python
on various
platforms/
integrated
development
environments
-
Fundamentals
of Python that
includes
introduction to
variables, data
types, use of
mathematical
and logical
operators,
defining a
function, use
of modules
and packages,
file handling -
And much
more!

Python 3

**Essentials
For absolute
beginners
and curious
cats 1st
Edition
(Penerbit
UMK)** Packt
Publishing Ltd
Time series
forecasting is
different from
other machine
learning
problems. The
key difference
is the fixed
sequence of
observations
and the
constraints
and additional
structure this
provides. In
this Ebook,
finally cut
through the
math and
specialized
methods for
time series
forecasting.

Using clear
explanations,
standard
Python
libraries and
step-by-step
tutorials you
will discover
how to load
and prepare
data, evaluate
model skill,
and
implement
forecasting
models for
time series
data.

**Introduction
to Python
Programmin
g** John Wiley &
Sons
More
physicists
today are
taking on the
role of
software
developer as
part of their
research, but

software development isn't always easy or obvious, even for physicists. This practical book teaches essential software development skills to help you automate and accomplish nearly any aspect of research in a physics-based field. Written by two PhDs in nuclear engineering, this book includes practical examples drawn from a working knowledge of physics concepts.

You'll learn how to use the Python programming language to perform everything from collecting and analyzing data to building software and publishing your results. In four parts, this book includes: Getting Started: Jump into Python, the command line, data containers, functions, flow control and logic, and classes and objects
Getting It Done: Learn about regular expressions,

analysis and visualization, NumPy, storing data in files and HDF5, important data structures in physics, computing in parallel, and deploying software
Getting It Right: Build pipelines and software, learn to use local and remote version control, and debug and test your code
Getting It Out There: Document your code, process and publish your findings, and

<p>collaborate efficiently; dive into software licenses, ownership, and copyright procedures <i>Python Machine Learning Illustrated Guide For Beginners & Intermediates</i> Princeton University Press Learn how to train popular deep learning architectures such as autoencoders, convolutional and recurrent neural networks while discovering how you can use deep</p>	<p>learning models in your software applications with Microsoft Cognitive Toolkit Key Features Understand the fundamentals of Microsoft Cognitive Toolkit and set up the development environment Train different types of neural networks using Cognitive Toolkit and deploy it to production Evaluate the performance of your models and improve your deep learning</p>	<p>skills Book Description Cognitive Toolkit is a very popular and recently open sourced deep learning toolkit by Microsoft. Cognitive Toolkit is used to train fast and effective deep learning models. This book will be a quick introduction to using Cognitive Toolkit and will teach you how to train and validate different types of neural networks, such as convolutional and recurrent neural</p>
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networks. This book will help you understand the basics of deep learning. You will learn how to use Microsoft Cognitive Toolkit to build deep learning models and discover what makes this framework unique so that you know when to use it. This book will be a quick, no-nonsense introduction to the library and will teach you how to train different types of neural networks, such as convolutional

neural networks, recurrent neural networks, autoencoders, and more, using Cognitive Toolkit. Then we will look at two scenarios in which deep learning can be used to enhance human capabilities. The book will also demonstrate how to evaluate your models' performance to ensure it trains and runs smoothly and gives you the most accurate results.

Finally, you will get a short overview of how Cognitive Toolkit fits in to a DevOps environment. What you will learn Set up your deep learning environment for the Cognitive Toolkit on Windows and Linux Pre-process and feed your data into neural networks Use neural networks to make efficient predictions and recommendations Train and deploy efficient neural networks such as CNN and

RNN Detect problems in your neural network using TensorBoard Integrate Cognitive Toolkit with Azure ML Services for effective deep learning Who this book is for Data Scientists, Machine learning developers, AI developers who wish to train and deploy effective deep learning models using Microsoft CNTK will find this book to be useful. Readers need to have experience in

Python or similar object-oriented language like C# or Java. **A Practical Implementation Guide to Predictive Data Analytics Using Python** Apress This book is intended to serve as the basis for a first course in Python programming for graduate students in political science and related fields. The book introduces core concepts of software development and computer

science such as basic data structures (e.g. arrays, lists, dictionaries, trees, graphs), algorithms (e.g. sorting), and analysis of computational efficiency. It then demonstrates how to apply these concepts to the field of political science by working with structured and unstructured data, querying databases, and interacting with application programming interfaces

<p>(APIs). Students will learn how to collect, manipulate, and exploit large volumes of available data and apply them to political and social research questions. They will also learn best practices from the field of software development such as version control and object-oriented programming. Instructors will be supplied with in-class example code, suggested homework</p>	<p>assignments (with solutions), and material for practical lab sessions. <i>How to Prepare Data and Develop Models to Predict the Future</i> Springer Nature Get started solving problems with the Python programming language! This book introduces some of the most famous scientific libraries for Python: * Python's math and statistics module to do calculations * Matplotlib to</p>	<p>build 2D and 3D plots * NumPy to complete calculations on arrays * Jupyter Notebooks to share results with a team * SymPy to solve equations * PySerial to control an Arduino with Python * MicroPython to control an LED This book is great for budding engineers and data scientists. The text starts with the basics but finishes with topics rarely included in other</p>
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engineering and data science programming books like SymPy and PySerial and MicroPython. A beginner's guide to extracting valuable insights from your data Apress step-by-step approach to Python programming with machine learning fundamental and theoretical principles. **KEY FEATURES** ● Introduces readers to Python programming in a very simple way. ●

Extensive practical demonstration of Python concepts using numerous examples. ● Implementation of machine learning in Python using hands-on techniques. **DESCRIPTION** The book 'Introduction to Python Programming: A Practical Approach' lays out a path for readers who want to pursue a career in the field of computer software development. It covers the fundamentals

of Python programming as well as machine learning principles. Students will benefit from the examples that are included with each concept, which will aid them in understanding the concept. This book provides a practical understanding of Python programming using numerous programs and examples. It also develops problem-solving and code-writing abilities for the readers.

This book covers Python fundamentals, operators, and data structures such as strings, lists, dictionaries, and tuples. It also contains information on file and exception handling. The implementation of a machine learning model has also been included in this book. With the help of this book, students and programmers can improve their programming skills as well as their ability

to sprint towards a rewarding career. **WHAT YOU WILL LEARN** ● Learn Python concepts, operators, and data structures. ● Learn the properties and operations of lists, tuples, and dictionaries. ● Write Python code to solve specific issues. ● Write Python code to handle disk files and exceptions. ● Work with OOPS properties like classes, objects, constructors,

inheritance, and polymorphism . ● Use machine learning for classification, regression, prediction, and clustering. **WHO THIS BOOK IS FOR** This book is intended for current and aspiring emerging technology professionals, students, and anyone else who wishes to better understand the Python programming language and machine learning concepts. **TABLE OF**

CONTENTS 1.	12. Chapter	learning
Chapter 1: Basics of Python Programming	12: Machine Learning with Python	solutions. With all the data available today,
2. Chapter 2: Operators and Expressions	Chapter 13: Clustering with Python	machine learning applications are limited only by your imagination. You'll learn the steps necessary to create a successful machine-learning application with Python and the scikit-learn library. Authors Andreas Müller and Sarah Guido focus on the practical aspects of using machine learning algorithms,
3. Chapter 3: Control Flow Statements	Guru99	
4. Chapter 4: Functions	Machine learning has become an integral part of many commercial applications and research projects, but this field is not exclusive to large companies with extensive research teams. If you use Python, even as a beginner, this book will teach you practical ways to build your own machine	
5. Chapter 5: Strings		
6. Chapter 6: Lists		
7. Chapter 7: Tuple		
8. Chapter 8: Dictionaries		
9. Chapter 9: File Handling		
10. Chapter 10: Exception Handling, Modules, and Packages		
11. Chapter 11: Object-oriented Programming		

rather than the math behind them. Familiarity with the NumPy and matplotlib libraries will help you get even more from this book. With this book, you'll learn: Fundamental concepts and applications of machine learning Advantages and shortcomings of widely used machine learning algorithms How to represent data processed by machine learning, including

which data aspects to focus on Advanced methods for model evaluation and parameter tuning The concept of pipelines for chaining models and encapsulating your workflow Methods for working with text data, including text-specific processing techniques Suggestions for improving your machine learning and data science skills
Effective Computation in Physics

Gulf Professional Publishing Are you a novice programmer who wants to learn Python Machine Learning? Are you worried about how to translate what you already know into Python? This book will help you overcome those problems! As machines get ever more complex and perform more and more tasks to free up our time, so it is that new ideas are developed to help us continually

improve their speed and abilities. One of these is Python and in Python Machine Learning: 3 books in 1 - The Ultimate Beginner's Guide to Learn Python Machine Learning Step by Step using Scikit-Learn and Tensorflow, you will discover information and advice on: Book 1 • What machine learning is • The history of machine learning • Approaches to machine learning • Support vector machines • Machine learning and neural networks • The Internet of Things (IoT) • The future of machine learning • And more... Book 2 • The principles surrounding Python • Different types of networks so you can choose what works best for you • Features of the system • Real world feature engineering • Understanding the techniques of semi-supervised learning • And more... Book 3 • How advanced tensorflow can be used • Neural network models and how to get the most from them • Machine learning with Generative Adversarial Networks • Translating images with cross domain GANs • TF clusters and how to use them • How to debug TF models • And more... This book has been written specifically for beginners and the simple,

step by step instructions and plain language make it an ideal place to start for anyone who has a passing interest in this fascinating subject. Python really is an amazing system and can provide you with endless possibilities when you start learning about it. Get a copy of Python Machine Learning today and see where the future lies.

An Open Source Guide

Academic Press Machine Learning Guide for Oil and Gas Using Python: A Step-by-Step Breakdown with Data, Algorithms, Codes, and Applications delivers a critical training and resource tool to help engineers understand machine learning theory and practice, specifically referencing use cases in oil and gas. The reference moves from explaining how Python

works to step-by-step examples of utilization in various oil and gas scenarios, such as well testing, shale reservoirs and production optimization. Petroleum engineers are quickly applying machine learning techniques to their data challenges, but there is a lack of references beyond the math or heavy theory of machine learning. Machine Learning Guide for Oil and Gas Using

Python details the open-source tool Python by explaining how it works at an introductory level then bridging into how to apply the algorithms into different oil and gas scenarios. While similar resources are often too mathematical, this book balances theory with applications, including use cases that help solve different oil and gas data challenges. Helps readers understand how open-

source Python can be utilized in practical oil and gas challenges Covers the most commonly used algorithms for both supervised and unsupervised learning Presents a balanced approach of both theory and practicality while progressing from introductory to advanced analytical techniques **fastText Quick Start Guide** Packt Publishing Ltd

Python Machine Learning Illustrated Guide For Beginners & Intermediates Machines Can Learn ?! Automation and systematization is taking over the world. Slowly but surely we continuously see the rapid expansion of artificial intelligence, self-check out cash registers, automated phone lines, people-less car-washes , etc. The world is changing, find out how python programming

ties into machine learning so you don't miss out on this next big trend! This is your beginner's step by step guide with illustrated pictures! Let's face it, machine learning is here to stay for the foreseeable future and will impact the lives billions worldwide! Drastically changing the world we live in the most fundamental ways, from our perceptions, life-style,

thinking and in other aspects as well. What You Will Learn Linear & Polynomial Regression Support Vector Machines Decision Trees Random Forest KNN Algorithm Naive Bayes Algorithm Unsupervised Learning Clustering Cross Validation Grid Search And, much, much more! If you want to learn more about python machine learning it is highly recommended

you start from the ground up by using this book. Normally books on this subject matter are expensive! Why not start off by making a small and affordable investment with your illustrated beginners guide that walks you through python machine learning step by step Why choose this book? Addresses Fundamental Concepts Goes Straight To The Point, uNo fluff or

Nonsense machine times". Python
Practical learning at a is arguably
Examples fundamental the main
High Quality level. What programming
Diagrams are you language for
"Noob waiting for? big data, and
friendly" Make the the deluge of
(Good For greatest data in
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libraries and explore real-world examples on how to handle real data. The main focus of the book is the practical application of bioinformatics , but we also cover modern programming techniques and frameworks to deal with the ever increasing deluge of bioinformatics data.

Data Visualization with Python and JavaScript

"O'Reilly Media, Inc." 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/plo tting 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. [Computational Modeling and Visualization of Physical Systems with Python](#) John Wiley & Sons Textbook that uses

examples and Jupyter notebooks from across the sciences and engineering to teach Python programming. *Python for Excel* PublishDrive Python Data Analytics will help you tackle the world of data acquisition and analysis using the power of the Python language. At the heart of this book lies the coverage of pandas, an open source, BSD-licensed library providing high-

performance, easy-to-use data structures and data analysis tools for the Python programming language. Author Fabio Nelli expertly shows the strength of the Python programming language when applied to processing, managing and retrieving information. Inside, you will see how intuitive and flexible it is to discover and communicate meaningful patterns of data using Python scripts, reporting

systems, and data export. This book examines how to go about obtaining, processing, storing, managing and analyzing data using the Python programming language. You will use Python and other open source tools to wrangle data and tease out interesting and important trends in that data that will allow you to predict future patterns. Whether you are dealing with sales data, investment

data (stocks, bonds, etc.), medical data, web page usage, or any other type of data set, Python can be used to interpret, analyze, and glean information from a pile of numbers and statistics. This book is an invaluable reference with its examples of storing and accessing data in a database; it walks you through the process of report generation; it provides three real world case studies

or examples that you can take with you for your everyday analysis needs. [A Guide for Data Scientists](#) Cambridge University Press Python Programming Illustrated Guide For Beginners & Intermediates Whether you are at a beginner or intermediate level this book is crafted just for you! Learn Python Fundamentals This is your beginner's step by step guide with

illustrated pictures!
Learn one of the most essential, renowned and practical programming languages in 21st century. Python is a general purpose programming used by many start-ups. Its design emphasizes code readability, notably using significant whitespace
Did you know Mozilla Firefox, PBS, Reddit, and even NASA! All use Python programming for their websites?

Providing constructs whether small or large scale Python is versatile and can be used in a variety of ways. What You Will Learn: Python Running Your First Program Identifiers Variables Data Types Codes Practical Implementatio ns And, much, much more! If you want to learn more about python programming it is highly recommended you start from the ground up by using this book. Why not start off by making a

small and affordable investment with your illustrated beginners guide that walks you through python programming step by step. Why choose this book? Addresses Fundamental Concepts Goes Straight To The Point, No fluff or nonsense Practical Examples High Quality Diagrams "Noob friendly" (Good For beginners) Object Oriented Programming

With Python Lambda Expressions Endorses Learn "By Doing Approach" Concise And To The Point I been working tirelessly to provide you quality books at an affordable price. I believe this book will give you the confidence to tackle python programming at a fundamental level. What are you waiting for? Make the greatest investment in knowledge base right now. Buy your

copy now!
Problem Solving with Python 3. 7 Edition
Machine Learning Mastery Perform efficient fast text representation and classification with Facebook's fastText library Key Features Introduction to Facebook's fastText library for NLP Perform efficient word representation s, sentence classification, vector representation Build better, more scalable

solutions for text representation and classification Book Description Facebook's fastText library handles text representation and classification, used for Natural Language Processing (NLP). Most organizations have to deal with enormous amounts of text data on a daily basis, and gaining efficient data insights requires powerful NLP tools such as

fastText. This book is your ideal introduction to fastText. You will learn how to create fastText models from the command line, without the need for complicated code. You will explore the algorithms that fastText is built on and how to use them for word representation and text classification. Next, you will use fastText in conjunction with other popular libraries and frameworks such as Keras, TensorFlow,

and PyTorch. Finally, you will deploy fastText models to mobile devices. By the end of this book, you will have all the required knowledge to use fastText in your own applications at work or in projects. What you will learn
Create models using the default command line options in fastText
Understand the algorithms used in fastText to create word vectors
Combine command line

text transformation capabilities and the fastText library to implement a training, validation, and prediction pipeline
Explore word representation and sentence classification using fastText
Use Gensim and spaCy to load the vectors, transform, lemmatize, and perform other NLP tasks
Develop a fastText NLP classifier using popular frameworks, such as Keras,

<p>Tensorflow, and PyTorch Who this book is for This book is for data analysts, data scientists, and machine learning developers who want to perform efficient word representation and sentence classification using Facebook's fastText library. Basic knowledge of Python programming is required. A Ten-Week Bootcamp Approach to Python Programming g Penerbit UMK</p>	<p>THIS BOOK INCLUDES : Python for Beginners: A crash course to learn Python Programming in 1 Week Python for Data Analysis: A Beginners Guide to Master the Fundamentals of Data Science and Data Analysis by Using Pandas, Numpy and Ipython Python Machine Learning: A Step by Step Beginner's Guide to Learn Machine Learning Using Python Here's what</p>	<p>you'll learn through this book: Python for Beginners In this book You will learn: Getting started with the basics Statements, Comments, Variables, Index Data Types: Strings and Numbers Data Types: List and Tuple Data Types: Set and Dictionary Operators Functions Loops Python Practice Projects and much more Python for Data Analysis In this book You will learn: Data Science/Analy</p>
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sis and its applications IPython and Jupyter - an introduction to the basic tools and how to navigate and use them. You will also learn about its importance in a data scientist's ecosystem. Pandas - a powerful data management Python library that lets you do interesting things with data. You will learn all the basics you need to get started. NumPy - a powerful numerical library for Python. You

will learn more about its advantages. Python Machine Learning The Topics Covered Include: Machine learning fundamentals How to set up the development environment How to use Python libraries and modules like Scikit-learn, TensorFlow, Matplotlib, and NumPy How to explore data How to solve regression and classification problems Decision trees

k-means clustering Feed-forward and recurrent neural networks Get your copy now! *A Guide for Engineers and Scientists* Python Programming and Numerical Methods: A Guide for Engineers and Scientists introduces programming tools and numerical methods to engineering and science students, with the goal of helping the students to develop good computational problem-

solving techniques through the use of numerical methods and the Python programming language. Part One introduces fundamental programming concepts, using simple examples to put new concepts quickly into	practice. Part Two covers the fundamentals of algorithms and numerical analysis at a level that allows students to quickly apply results in practical settings. Includes tips, warnings and "try this" features within each	chapter to help the reader develop good programming practice. Summaries at the end of each chapter allow for quick access to important information. Includes code in Jupyter notebook format that can be directly run online
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