SYLLABUS

100 DAYS OF CODE
COMPLETE
PYTHON BOOTCAMP



Learn Earn & Fun

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BEGINNER PYTHON

Local Development Environment Setup

PyCharm Tips and Tricks

Print, Input, Len Function

Variables

String Manipulation

Variable Naming Rules

Mathematical Operations

Data Types

Converting types

Conditionals IF/ELIF/ELSE

Logical Operators

Randomization

Error Handling

Functions

For Loops

Code blocks and Indentation

While Loops

Flowchart Programming

Positional and Keyword Arguments

Python Dictionaries and Lists

Nested Collections

Returning Functions

Return vs. Print

Doc Strings vs. Comments

Scope and Local/Global Variables

Debugging Techniques

INTERMEDIATE PYTHON

Python Object Oriented Programming

Creating Classes in Python

Using External Python Modules/Import

Getting / Setting Attributes

Python Methods

Class Initialisers

Module Aliasing

Optional, Required and Default Parameters

Event Listenters

Python Instances and State

Python Turtle

Game Development with Python and OOP

Python Inheritance

Python Slice Function

File I/O Reading and Writing to Local Files

File Directories

Reading and Writing to CSV

Introduction to the Pandas Framework

List Comprehensions

Dictionary Comprehensions

Packing and Unpacking Functions

Creating Desktop GUI Apps with Tkinter

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Strongly Dynamic Typing
Error Handling and Exceptions
Try / Except/ Raise
Working with JSONs
Local Persistence
Sending Email with Python and SMTP
Working with date and time
Hosting Python Code Online with PythonAnywhere

INTERMEDIATE +

PyGame

APIs

Making HTTP Requests with the Requests module

Sending Parameters with the Request

APIs with Authentication

Sending SMS with Python

Web Scraping with Beautiful Soup

Browser Automation with Selenium Web Driver

Automating Twitter

Automating LinkedIn

Automating Instagram

Web Development with Flask

Python Decorators

Templating with Jinja 2

WTForms

ADVANCED PYTHON

Build Your Own REST API with Python

Build Your Own Blog

Databases with SQLite

Dataframe Inspection

Data Cleaning

Sorting Values in Dataframes

Arithmatic Operations with Pandas

Creating Pivot Tables

Chaining Functions

Smoothing Time Series Data

Creating Line Charts with Matplotlib

Using Jupyter Notebook

HTML Markdown

Testing with PyTest, unittest

Creating Scatterplots with Matplotlib

Relational Database Schemas

Descriptive Statistics

Creating Bar Charts, Pie Charts, Donut Charts, Box Plots with

Plotly

Matplotlib

Deep into NumPy

Seaborn, Scikit-Learn, SciPy



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SYLLABUS

100 DAYS OF CODE
COMPLETE
PROFESSIONAL
PYTHON BOOTCAMP

PROFESSIONAL PORTFOLIO BUILDING INDEPENDENT ASSIGNMENTS

Text to Morse Code Converter Image Watermarking App

Todo List Website Image Color Palette Generator Custom API Driven Website Library Management System Quiz Application

BONUS: MACHINE LEARNING

Machine Learning with Tensorflow Python: Crash Course



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