SCHOOL OF SKILL DEVELOPMENT

SkillShot Python Bootcamp

Join the Course & MasterPython Programming

04 Weeks

8.00 P.M

Limited Seats – Enroll Today!

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Schoolofskilldevelopment.in

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Schedule

Class	Topic	Core Concepts	Tools & Activities	Learning Outcomes
1	Introduction to Python & Setup	What is Python, installation, IDE setup (VS Code / Jupyter), syntax, print/input, variables	Write a simple Python script performing calculations	Get comfortable with environment setup and Python basics
2	Data Types & Control Flow	Strings, integers, floats, lists, booleans; conditionals (if/else); loops (for, while)	Build a text-based calculator or guessing game	Learn logic-building and basic data flow
3	Collections & Data Structures	Lists, tuples, sets, dictionaries, comprehensions	Create and manipulate student record data using collections	Handle structured data efficiently
4	Functions & Modular Code	Define and call functions, parameters, *args/**kwargs, modules, imports	Create a utility module with reusable math or data-cleaning	Write modular and reusable Python programs
5	File Handling & Exception Management	File I/O, CSV reading/writing, try-except blocks, custom exceptions	Build a CSV data-cleaning file parser	Manage files and handle program errors effectively
6	Object-Oriented Programming	Classes, objects, methods, inheritance, encapsulation, polymorphism	Build a student or employee management system	Apply OOP principles to real-world coding problems
7	Python Automation & APIs	Requests library, BeautifulSoup basics, JSON, OS module, web scraping	Create an automation or data-fetching script using APIs	Automate real-world tasks with Python
8	Capstone Project & Review	Project integration, debugging, documentation, presentation	Develop and present a complete Python project combining all concepts	Build a job-ready, portfolio-grade Python project

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SkillShot Python Bootcamp & Hands-On Learning Syllabus

1

Class 1: Introduction to Python & Setup

- Understanding what Python is used for – automation, analytics, and web development
- Installing Python, Jupyter Notebook, and Visual Studio Code
- Learning syntax rules, indentation, and basic I/O (print, input)
- Performing simple calculations with variables
- Hands-On: Writing your first Python script and performing arithmetic operations

Outcome: Gain a solid understanding ofenvironment setup and Python basics

2

Class 2: Data Types, Variables & Control Flow

- Learn Python's core data types: strings, integers, floats, and booleans
- Understand expressions, operators, and type casting
- Implement conditionals (if-elif-else) for logic building
- Working with loops (for, while) and range functions
- Hands-On: Create a basic guessing game or text-based calculator

Outcome: Write dynamic programs using variables and conditional logic

3

Class 3: Collections and Data Structures

- Understanding lists, tuples, sets, and dictionaries
- Indexing, slicing, and looping over collections
- List and dictionary comprehensions for cleaner code
- Sorting and searching data from collections
- Hands-On: Build a student record system using lists and dictionaries

Outcome: Handle structured and unstructured data efficiently

4

Class 4: Functions and Modular Coding

- Defining, calling, and returning values from functions
- Global vs local variables, *args and **kwargs usage
- Anonymous (lambda) functions and higher-order functions
- Working with custom modules and imports
- Hands-On: Develop a mini utility library for calculations and data cleaning

Outcome: Write modular, maintainable, and reusable code

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SkillShot Full Stack Development Live & Hands-On Learning Syllabus

5

Class 5: File Handling and Exception Management

- Reading and writing text and CSV files
- File modes, file pointers, and working with directories
- Handling runtime errors using try-except-else-finally
- Custom exceptions and error logging principles
- Hands-On: Create a script that processes and cleans CSV data files

Outcome: Manage external data files safely and log program behavior

6

Class 6: Object-Oriented Programming (OOP)

- Understanding classes, objects, methods, and constructors
- Inheritance, encapsulation, and polymorphism explained
- Building relationships between classes (composition, aggregation)
- Hands-On: Develop an employee management system using OOP principles

Outcome: Apply OOP design to build real-world, structured applications

7

Class 7: Python in Real-Life Applications (Automation & APIs)

- Introduction to libraries: Requests, OS, and JSON
- Basic web scraping using BeautifulSoup
- Working with REST APIs and responses
- Automating common system tasks using Python scripts
- Hands-On: Build an automation script (e.g., auto file organizer or data fetcher)

Outcome: Automate repetitive tasks and handle API-based data workflows

8

Class 8: Final Capstone Project & Best Practices

- Wrap-up of all key Python concepts — from syntax to projects
- Build a complete mini-project (options):
  - Data Dashboard / File Cleaner / Task Automation Script / Weather App using API
- Apply modularity, file handling, error management, and OOP
- Debugging and code optimization practices
- Final presentation and peer review session

Outcome: Deliver a fully functional Python application demonstrating end-to-end knowledge

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WHY ENROLL IN THIS COURSE

Why This Course

Hands on learning

- Hands-on projects and live coding sessions

Expert Instructor

- Learn from experienced instructors

Portfolio Enhance

- Build a portfolio-ready final project

Live QnA

- Interactive Q&A sessions for doubt resolution

Beginer Friendly

- Ideal for beginners and working professionals

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