What Do I Get From This Course?

Python Course

1

Python For Data Science
(**+ 80** Jupyter Files)
(+ A Main Analysis Project)

izshop (Python programmer)

Solving Analysis Problems

Developer Tips & Tricks

Data Analysis Project

Advanced (OOP)

JPG to PNG **/** PDF Tools

Password Checker **/** YouTube Downloader

You're Experienced Now!

Python Course

2

+ 4 Main Projects
1. JPG to PNG converter
2. PDF Tools
3. Password Checker
4. YouTube Downloader

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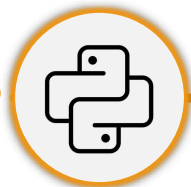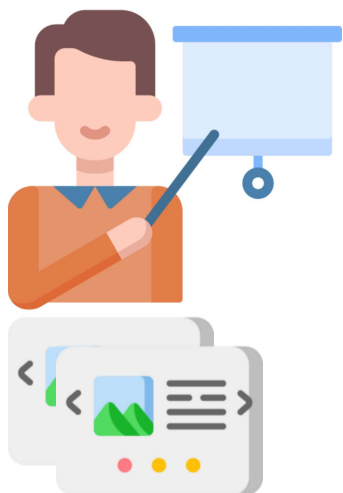
PYTHON PROGRAMMING
(ZERO TO HERO)

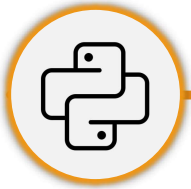- **Your Instructor : Ahmad Ahmadi**
- **Website: izlearn.ir**

IZ LEARN

Course Structure

1. For every topic first, I will show you some slides and **teach the theory**

Useful Links

Jupyter Files
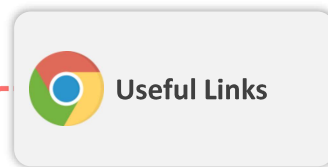
2. Next, we have separate videos for **hands-on practice** and coding ourselves

Course Outline – Part one

1 Why Python?

2 Jupyter Notebooks

3 Data Types

4 Variables

5 Numeric Data Types

6 Strings

7 Conditional Logic

8 Sequence Data Types

9 Loops

10 Dictionaries & Sets

11 Functions

12 Working With Excel Files

13 Final Project
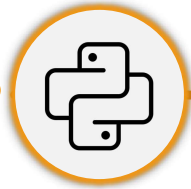
Course Outline – Part Two

14 OOP

15 Decorators

16 Generators

17 Error Handling

18 Modules in Python

19 File IO

20 Regular Expressions
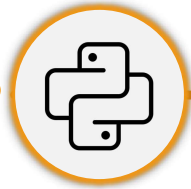
21 JPG to PNG Converter

22 PDF Tools

23 Password Checker

24 YouTube Downloader

Introducing the Course Project-PART ONE

The Situation

You've just been hired as a **Python programmer intern** for **izshop**. The main programming language for analyzing data in the company is **Python**. So the team <u>needs your help</u> to speed up the process.
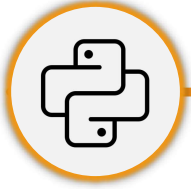
The Assignment

As of starting your new position, you've been asked to help analyze the sales data of recent **Black Friday** 💵

The Objectives

Use **Python** to :
- To Fill in missing data in an Excel File
- How to create more complex data from Excel
- Export the processed data to a new Excel file to share with your leadership

izshop

Setting Up Expectations

✔ We will write our code in **Jupyter Notebooks** as our primary coding environment

- Jupyter Notebooks are free to use, and it's a popular coding environment for data scientist

- We will introduce **Google Colab** as an alternative, cloud-based environment

✔ You do **NOT** need prior coding experience to take this course

- We will start from scratch by covering essential core concept in Python and programming

🎯 **MySuggestion**: Watch **Free Python Course** on **izlearn.ir** webpage.
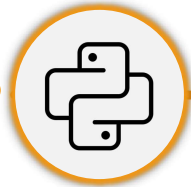
Setting Up Expectations

Who This Course is For:

- Learners interested in working with **data**
- Learners want to add **Python** as one of their skills
- Learners who **enjoy** tackling coding challenges

Who This Course is NOT For:

- **Experienced** Python programmers or **advanced** users
- Learners looking to learn Python for **Web Development**
- Learners preferring **copy** & **paste** code from others