

DATA SCIENCE WITH PYTHON 4.0

Break Through Data Barriers: Master Python to Solve Complex Problems

Certificate on successful completion.



Starting 29th April 2024



8 - 10 weeks



Three virtual classes each week

PROGRAM OVERVIEW

More and more Accountants, Data Analysts, Business Analysts and Risk Managers are learning Python for developing reports, calculating complex information and presenting data in the form of dash boards and financial reports.

This program is equally beneficial for people who are new to Python as well as those familiar with the language and who want to up their game and excel in data science using Python.

The program starts with the basics of Python from understanding and learning how to code, what are the major concepts and how to perform complex calculations using Python. It later takes a deep dive into the advanced concepts before moving on to a more advanced level consisting of data analysis and data presentation.

In the later modules, the program covers data presentation in the form of tables, charts, grids, displaying Images with Matplotlib. Data Analysis Module covers data collection, cleaning, processing, and plotting using Seaborn. This is 10 weeks live program for a hands-on learning experience.

COURSE RESOURCE

- Hand-on class projects with solutions
- Quizzes and Assignments
- Access to recorded lectures post-live class ON LMS.

WHO SHOULD ATTEND?

- Accountants and Finance Managers
- Data Science Professionals
- Risk Managers
- Business Analysts
- Data Analysts
- Programmers

PROGRAM OBJECTVE

At the end of the program, participants should be able to:

- Carryout complex calculations
- Perform Data Mining and complex Data Analysis on huge data records
- Make Interactive Dashboards, Business Presentations, and other Reports for Boards

COURSE COVERAGE

Module A: Introduction & Calculation

Lesson 1: Python Introduction

Lesson 2: Variables and Datatypes

Lesson 3: User Input and Output

Lesson 4: Using Python for calculations

Lesson 5: Control Statements

(a)Conditionals

(b)Loops

Practice 1: calculating salary knowing the

hourly rate for an employee.

Practice 2: calculating the profit for a

bank account after 5 years

Quiz

Module B: Advanced Python

Lesson 1:Functions

Lesson 2: Local and global scope

Lesson 3:Lists

Lesson 4:Tuples

Lesson 5:Dictionaries

Lesson 6: Introduction of Python Modules

(Matplotlib, Seaborn, numpy and pandas)

Practice for each module

Quiz

Module C: Visualization with Matplotlib and Seaborn

Lesson 1: Introduction, why do we need to

visualize our data?

Lesson 2: Data Cleaning- null and infinites

values, outliers and data formatting etc.

Lesson 3: Improving Default Styles with

Seaborn

Lesson 4: Scatter Plots

Lesson 5: Activity for Data Visualization

Lesson 6: Histogram and Line Chart

Lesson 7: Bar Chart

Lesson 8: Heatmap

Lesson 9: Displaying Images with

Matplotlib

Lesson 10: Plotting multiple charts in a

grid

Practice project

Quiz

Module D: Data Manipulation with Python

Lesson 1: Introduction what is a dataset

and why do we need it?

Lesson 2: Loading the dataset and

looking at slices and views of it

Lesson 3: Group by aggregates to

summarize data

Lesson 4: Tidy and reshape data

Lesson 5: Write functions and apply

them on the data

Lesson 6: Plotting using Seaborn

Project

Quiz

Module E: Introduction to Machine Learning with Python

Lesson 1: What is Machine Learning

Lesson 2: Regression

Lesson 3: Classification

Lesson 3: Model Evaluation Metrics

Project

Quiz



TRAINER'S PROFILE

Ahmed Ghamal

Machine Learning engineer at Tarjama. Python, SQL, Pytorch, Data Science frameworks, Power BI



Ahmed Gamal is an Applied Data Scientist at Tarjama, the IT company building Machine Translation models. He is also Machine Learning Lead at Udacity. He was previously a data scientist at Unilever Egypt where he has remained in charge of projects for:

Creating dashboard for sales for MEPS (The Middle East + Pakistan + Sri Lanka) region. Automating the generation of analytics reports using Airflow, Python, and Power Bl.

Creating a dashboard for mobile Application usage (UFS Sales Pro) that serves as a tracking tool for Unilever He is a Bachelors' in Computer Science and a Machine learning Engineer.





PROGRAM DETAILS

- 4th Batch is Starting 29th April 2024
- 8 10 weeks long
- E-Learning Live classes, 3 classes of 1 hour per week.
- Classes will be conduct on Wednesday, Thursday, and Friday from 8:30 PM 9:30 PM (GMT + 5).
- 60% passing criterion.
- Quizzes & Assignments
- Recorded sessions available 24/7 on the LMS uploaded within 24 hours of the class.
- Online support during business hours is available.
- Weekly Progress report to HR where enrolled by Company.

Group discounts available.

REGISTRATION & CONTACT DETAILS

Register Here

For more details or customization of training program contact:

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