



PYTHON PROGRAMMING AND DATA EXPLORATION IN PYTHON

Python is a programming language. Python is a viable option today for any high performance computing. The syntax of the language is designed to be readable. In fact, one recent study has shown Python to be the most commonly taught programming language and is ranked second in the Top 10 Popular Programming Languages.

Python is the second most demanded skill and also the skill with the highest average salary offered. With the rise of big data, Python developers are in demand as data scientists prefer using Python, as it can be easily integrated into web applications to carry out tasks that require machine learning.

About the Program:

Program starts with basics of Python Programming and covers the essential programming knowledge required for conducting data analysis in Python, evolving into working with data in python and applying machine learning algorithms on data for analysing and visualizing data in python.

Program Contents:

- Python Programming (18 Hours)
- Data Exploration in Python (24 Hours)
- Guided Practice (42 Hours)

Who should join?

- Have basic knowledge of working in the Windows environment and Microsoft excel
- Knowledge of Math/Statistics up to Class XII
- Candidates wanting to take the first step in Data Analytics domain
- Candidates wanting to make career in Data Analytics domain but not decisive for a career program

Program Benefits:

- Learn one of the most popular tool for data analytics
- Learn Python Programming basics and essentials, along with machine learning for conducting data analytics in Python
- Extensive Learning hours with 42 hours of classroom training along with real time practice on data sets and 42 hours of online guided practice for better learning and increased retention
- Hybrid Learning with Guided practice & Weekly Practice quiz questions on the app along with the classroom sessions
- Hands-on application of the Tools
- App based learning. Connect with Faculty on the App apart from the regular classroom training.
- More than 25000 jobs available in Python



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Modules Objectives:

1. Understanding Python, Python Installation, Python Interface and python IDE
2. Python Constructs
 - Jump/Branching
 - Loops
 - Functions
 - Variables and their scope
 - Modules
 - Operators and expressions
3. Importing/Exporting data in python
4. Exceptions Handling in python
5. Collections and dictionaries
6. Object oriented programming in python
7. Data Modelling using Machine Learning Techniques
 - Working with Data in Python
 - Data Modelling using Machine Learning Techniques
8. Data Visualization

Key Skills:

- Python Programming
- Data Analysis in Python
- Data Visualization in Python