



Python Programming

Learn to analyze & process data with Python

Curriculum Brochure

Python Programming Language

TRAINING

Python is a versatile, high-level, and open-source programming language that has become increasingly popular in recent years. Python is used by developers to build a wide range of applications, including web applications, data analysis tools, scientific computing, artificial intelligence, machine learning, automation, etc.

Python can be used to build a wide range of applications, from simple scripts to complex enterprise applications. Python is widely used in data science and machine learning, making it an ideal choice for developers working in these fields. Python is also used in web development, scientific computing, game development, and many other industries, making it an excellent choice for developers seeking a diverse range of career options.

Python also has a strong and supportive community of developers who contribute to its development and provide a wealth of resources, tools, and libraries to help developers build applications quickly and efficiently. The Python community is known for its inclusivity and collaboration, with developers from all over the world working together to build a better Python ecosystem.

The demand for Python developers is growing rapidly, with many companies seeking skilled Python developers to work on their projects. The rise of data science and machine learning has created a significant demand for Python developers, and this trend is expected to continue in the coming years.

Python code is clean, concise, and easy to understand, making it an ideal choice for beginners and experienced developers alike. The language is designed to be easy to learn, with a simple syntax and an extensive library of modules and frameworks that make it easy to develop and deploy applications quickly and efficiently.

Python is an excellent choice for developers seeking a diverse range of career options. Python can be used in many different industries, making it an ideal choice for developers who want to work in fields like data science, web development, scientific computing, game development, and more.

Overall, learning Python programming can be a valuable investment for those seeking a career in tech. Its versatility, high demand, and supportive community make it an ideal choice for those looking to build a career in a variety of industries. As the demand for skilled Python developers continues to grow, learning Python is an excellent option for getting a good job and building a successful career in the tech industry.



Python Programming Training Program

This program is designed to train students with the skills and experience to write programs by using python programming, tools, libraries, case studies and to work on minor projects.



Practical Based Sessions

Training program available in four months & six months duration



Dummy Projects

To build your hands-on expertise & portfolio



Resume Building Assistance

To create an attractive resume for your candidature



Interview Preparation

So you can present your skills in a better way



Mentoring & Job Assistance

To help you in getting good career or placements

Who can join

Any student can join the Python Programming training program. The student must have interest in programming with basic computer knowledge.

Students from any specializations of B.Tech / M.Tech / BCA / MCA / B.Sc. / M.Sc, who are looking to learn programming and enhance their practical skills can join the Python Programming training program.

Working professionals or job seekers, who are looking to enhance their programming skills can join the Python Programming training program.

Training Mode

Online Live Classes are available

- 4x more effective way of learning
- Hands-on experience with projects & assignments
- Virtual class with real interaction with trainer
- Monitoring support & troubleshooting issues
- Masterclass from industry experts & leaders
- Live class recordings for revision purpose

Python Programming Training in Agra



Learn2Earn Labs

F-4, First Floor, Anna Ikon Complex, In Front of Deviram Food Circle, Sikandra-Bodla Road, Sikandra, Agra, Uttar Pradesh – 282007

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Training Modules

Objectives :

The training objective of the Python programming course is to equip participants with a strong foundation in the language, along with practical knowledge of popular libraries like NumPy, pandas, matplotlib, seaborn, and Beautiful Soup. The course aims to provide a comprehensive understanding of Python programming concepts, including data structures, functions, control statements, file handling, object-oriented programming, and more. Participants will learn how to use Python to analyze data, create visualizations, and web scraping. The course will include several minor project works, enabling participants to apply their knowledge to real-world scenarios. By the end of the training program, participants will have the skills and knowledge necessary to use Python effectively in their respective fields, including data analysis, data science, machine learning, scientific computing, web development, and more.

Module 1 : Python Core Programming (30 Days)

Introduction & Environment setup, Python Fundamentals, tokens, keywords, literals, identifiers, operators, variables, taking input from user, exception handling, data types (number, string, list, tuple, set, dictionary), control flow, conditional statements (if, elif, else), iterative statements or loops (while, for), nested loops, loop control statements, functions, return statement, range in functions, variable scopes, type of arguments, lambda functions, filter & map functions, packages, import statement, dir function, important modules in python (sys, os, math, datetime, random, etc.), file handling in python (opening, closing, reading, writing, renaming & removing), classes & objects, variable scope & global keyword, case studies.

Module 2 : NumPy & Pandas Library (30 Days)

Introduction to NumPy, installing NumPy, N-Dimensional array, array creation, Arithmetic Operators, matrix product, NumPy functions, Indexing of NumPy arrays, fancy indexing, slicing of NumPy arrays, Iterating in a NumPy array, array manipulation, splitting arrays, file handling in NumPy, merging NumPy arrays, sorting a NumPy array.

Introduction to pandas, installing pandas, pandas series, pandas dataframe, importing data or reading data from CSV file, Excel file & JSON file, exporting data or writing data to CSV file & Excel file, Essential functionality of series & dataframe, filtering a dataframe, concatenate rows & columns, append rows, & merge data, data cleaning, handling missing data using pandas, inspecting and removing duplicates, replacing values, groups & aggregation, grouping data using pandas.

Module 3 : Data Visualization & Web Scrapping (30 Days)

Introduction to Data Visualization, Libraries and tools for data visualization, Introduction to Matplotlib library, types of plots, introduction to Seaborn library, benefits of Seaborn

library, types of plots & charts, plotting different types of plots & charts, customizing visualizations using, saving plots, subplots, grid, case studies.

Introduction to Web Scrapping, use cases, web scrapping process flow, popular tools for web scrapping, requests, Introduction to Beautiful soup library, installing beautiful soup, creating soup, types of objects, inspecting a web page, web scrapping demonstration using beautiful soup.

Module 4 : Assignments & Interview Preparation

This module is available for those who enroll in 90 days training program of python programming. The candidate will go through various assignments, and case studies to get hands-on experience. The candidate will also get trained in respect of cracking the viva and interviews.

Module 5 : Minor Project Work

After the completion of all the 90 days module of this python programming training program, some projects would be assigned to you to improve your practical knowledge and project experiences.

Below are the tentative details about the projects on which you can work under the guidance of respective faculty member.

1. Exploratory data analysis: A dataset would be given to the students and asked to perform exploratory data analysis to identify patterns, trends, and relationships. This may involve creating visualizations, preparing data, and identifying outliers and anomalies.

2. Data cleaning and preprocessing: A messy or incomplete dataset would be given to the students and asked to clean and preprocess the data to make it suitable for analysis. This may involve tasks such as filling in missing values, removing duplicates, and scaling or normalizing variables.

3. Data Loading and Insights Exercises:

a). Load the superstore data into the DataFrame and plot the following insights using Matplotlib Library

- Compare the total sales for each category of products.
- Number of deals in each state of given country

b). Load the Netflix data into the DataFrame and plot the following insights using Matplotlib Library:

- How much of the Netflix content are TV shows or Movies?
- In which country is Netflix the most popular

c). Load the Starbucks data into the DataFrame and find out which beverage category has the highest calories, plot the insights using bar plot with the help of Seaborn Library.

4. Develop a python project that can extract the data from a website using web scrapping concepts to perform the following tasks:

- Use the request library and the link to extract the data.
- Use BeautifulSoup to prepare the website's source code, then try to find a table on the source page.
- After finding the table, extract the data from all available columns and store in the DataFrame.

Interview Preparation

- Tell me about yourself.
- How did you hear about the position?
- What do you know about our company?
- Why did you apply for this position?
- What are your strengths and weaknesses?
- Why do you want to work with us?
- Why should we hire you?
- What is your dream job?
- Why do you want to leave your current job?
- Do you have any Offer?
- Have you ever been forced to resign?
- What do you like the least about your current job?
- What do you like to do outside of work?



Always Check Before Joining Any Company

most of the people just join any company for getting an handsome salary or experience and after joining they face lots of challenges.

Job Responsibilities & Expectations	Monetary Payment & Compensation	Company Culture & Values	Career Growth Opportunities	Work-Life Balance
Job Location & Commute	Reputation & Stability	Contract Terms & SOW	Company Stability	Work Ethics & Environment

Benefits / Perks with Learn2Earn Labs Training Program



Hands-On Training



Working Experience



Valid Certification



Corporate Connections



Attractive Portfolio



Video Resume



Professional Development

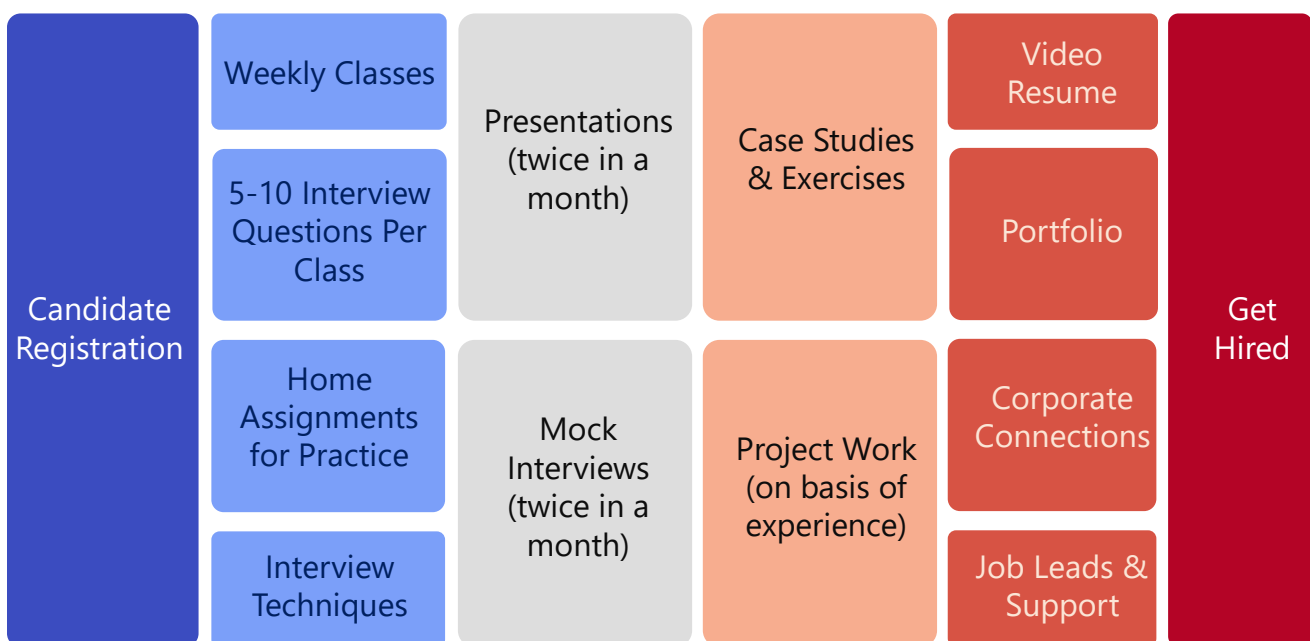


Interview Leads

We follow a dynamic & vibrant Job Assistance Execution Path



In present scenario providing job surety is easy, only we need to focus on outcome based learning and practical work enhancement. We know that every candidate is enough capable to understand the concepts and implement those concepts for improving his/her practical knowledge and experience.

Hence we are following a dynamic & vibrant Job Assistance Execution Path while conducting our job guarantee training programs and job assistance training programs. We are proud to say that we prepare candidates who can perform better throughout their professional journey and will always remains unbeatable.



We also offers

Variety of Job Oriented Training Programs

 <p>Java Full Stack Duration : 4 months 6 Months</p>	 <p>Full Stack Web Development Duration : 4 months 6 Months</p>	 <p>8 LPA+ Job Guarantee Full Stack Software Engineer Duration : 1 Year 600 Hours</p>
 <p>Cloud Computing & DevOps Duration : 4 months 6 Months</p>	 <p>Digital Marketing Duration : 6 months 1 Year</p>	 <p>Data Science & ML Duration : 4 months 6 Months</p>



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