



## Python (Basic to Advance) Training + Certification

### Learning Collaborations



### Global Certifications



## Intro to the Python Program

Python is a computer programming language often used to build websites and software, automate tasks, and conduct data analysis. Python is a general purpose language, meaning it can be used to create a variety of different programs and isn't specialized for any specific problems.

## About the Python Certification

This course is designed for clearing the TechVidya Python Certification. The entire course content is in line with the certification program and helps you clear the certification exam with ease and get the best jobs in top MNCs.

As part of this training, you will be working on real-time projects and assignments that have immense implications in real-world industry scenarios.

At the end of this program, there will be an assessment that perfectly reflects the type of questions asked in the certification exam and helps you score better marks.

TechVidya Course Completion Certificate will be awarded upon the completion of the project work and upon scoring at least 60% marks in the final assessment.

## Objectives of the Python Certification

- Build basic programs using fundamental programming constructs like variables, conditional logic, looping, and functions
- Work with user input to create fun and interactive programs
- Create simple games with images, animations, and audio using our custom beginner-friendly programming library, Wizardlib

## Prerequisites of the Python Program

This course assumes no previous experience, and takes you from the absolute beginner concepts and then goes into more detail. Basic programming skill in any language is helpful.

## Modules covered under Python Training Program

### Module 1: Python - An Introduction

- Python: An Overview
- History of Python
- Version of Python
- Feature of Python
  - ✓ Simple
  - ✓ Open Source
  - ✓ High Level Programming Language
  - ✓ Portable
  - ✓ Object Oriented & Procedure Oriented
  - ✓ Interpreted
  - ✓ Easy to Maintain
- Comparisons of Python with Other Language
  - ✓ Java
  - ✓ C++
  - ✓ Java Script
  - ✓ Perl
- Execution of Programs
- Python Comment

### Module 2: Python Variables & Data Types

- What is variables
- Assign Variables
- Data Types:
  - ✓ Numeric Data Types
  - ✓ Boolean Data Types
  - ✓ Compound Data Types
  - ✓ Dictionaries
  - ✓ Sets
  - ✓ Array

## Modules covered under Python Training Program

### **Module 3:** Operators

- Types of Operators
  - ✓ Arithmetic & Relational Operators
  - ✓ Assignment Operators
  - ✓ Logical / Boolean Operators
  - ✓ Identity Operators
  - ✓ Membership Operators
  - ✓ Bitwise Operators
- Operators Precedence & Associativity
  - ✓ Precedence of Operators
  - ✓ Associativity of Operators

### **Module 4:** Python Conditional Statements

- The If Statements
- The if-else Statements
- The Elif Statements
- The Nested If – Else Statements

### **Module 5:** Python Looping Concept

- Python for Loop
- Python While Loop

### **Module 6:** Python Control Statements

- The Break Statements
- The Continue Statements
- The Pass Statements

### **Module 7:** Python Number

- Mathematical Function
- Random Function
- Trigonometric Function

## Modules covered under Python Training Program

### Module 8 : Python Strings

- Accessing Strings
- Basic Operations
- String slices
- String Built-In Function

### Module 9 : Python List

- Introduction
- Accessing list
- Operations
- Working with lists
- List Slices
- Aliasing
- Cloning
- List Comprehension
- Deleting List
- Built-in Function

### Module 10 : Python Tuple

- Introduction
- Creating Tuple
- Accessing Tuple
- Modifying Tuple
- Deleting Tuple
- Built-in Function

### Module 11 : Python Dictionary

- Introduction
- Creating Dictionary
- Accessing Dictionary
- Deleting Dictionary
- Built-In Function

## Modules covered under Python Training Program

### Module 12 : Python Sets

- Introduction
- Declaring an Sets
- Operation on Sets
- Built-In Function

### Module 13 : Python Date & Time

- The Time Module
- The Calendar Module

### Module 14 : Python Function

- Defining a function
- Calling a function
- Types of functions
- Function Arguments
- Anonymous functions
- Global and local variables

### Module 15 : Module

- Introduction
- The Import Statement
- The From...Import Statement
- The From...Import\* Statement

### Module 16 : File Handling (Input / Output)

- Introduction
- Opening & closing Files
- Reading & writing Files
- Rename & Remove Files
- The Directories

## Modules covered under Python Training Program

### **Module 17 :** Exception Handling

- Error in Python Program
  - ✓ Syntax error
  - ✓ Exception
- Types of Exception
- Handling Exception in Python
- Raising Exception
- User Defined Exception

### **Module 18 :** OOPs Concepts

- Class and object
- Attributes
- Inheritance
- Overloading
- Overriding
- Interface & Abstraction

### **Module 19 :** Regular Expression

- Regular Expressions
- RegEx functions
  - findall()
  - search( )
  - split()
  - sub( )
- RegEx Functions
- Special Sequences
- Sets
- Match object
- Phone Number verification
- Email Verification
- Web scraping using RegEx
- Regular Expression Exercises

## Modules covered under Python Training Program

### **Module 20 :** Web Scrapping

- Web scrapping
- Extract useful data from websites
- Beautiful soup library
- Create a CSV file to store data
- Web Scrapping exercises

### **Module 21 :** Database Connections

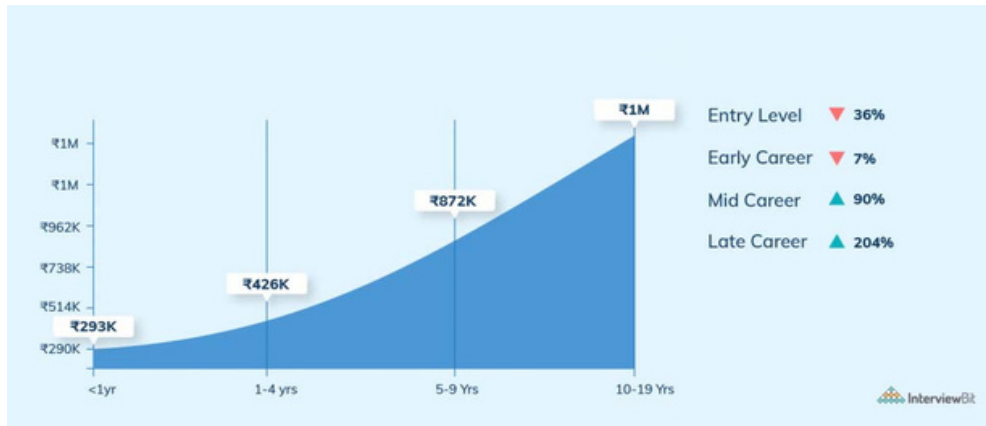
- Getting started with MySQL
- MySQL create database
- MySQL create table
- MySQL Insert
- MySQL select
- MySQL where
- MySQL Order by
- MySQL Update
- MySQL Limit
- MySQL Join
- MySQL Delete
- MySQL Drop Table
- MySQL Exercises

### **Module 22 :** Projects And Interviews

- Covering all the concepts
- Project Work
- Resume Prepration
- Interview Question Prepration



## Benefits as Python Developer



## Our Training Benefits as Python Developer Program

- Our complete training is constructed as per the current industry standard.
- Live Project & Industrial Based Training.
- One of the biggest team of Certified Expert & Competent Trainers.
- Easy to understand study material.
- Regular and Weekends classes for IT & Software training is provided.
- Interaction, analysis and case studies are an integral part of the training.
- Smart Labs with Real Latest Equipments.
- Students are free to access the labs for an unlimited number of hours
- Free Study Material, e-PDFs, Video Trainings, Sample Questions.
- Globally Recognized Course Completion Certificate.
- The ability to retake the class at no-charge as often as desired.
- One-on-One attention from instructors.
- Helps students to take knowledge of complex technical concepts.
- Post Training Support will help the students.
- Personality Development & Interview Preparation classes.
- 100% Job Assistance with dedicated training & placement team.



# Join One of the Best Python Training Institute in India

(In-Class & Live Online Training by Industry Experts)



**5740+**  
**Batches Completed**



**68806+**  
**Students Trained**



**470+**  
**Skilled Instructors**



## Our Latest Reviews



Hi All, I am Shilpa and i have done my Certification from TechVidya. The study environment is good and trainers are full of knowledge. I personally recommend TechVidya Institute to all the students who looking for quality education and sincere about there future.

I am grateful to TechVidya - both the faculty and the Training & Placement Department. They've made efforts ensuring maximum number of placed students. The Institute started grooming us for placements in the first few months including courses such as Professional Excellence Program and Professional Skills Enhancement. I suggest to join TechVidya which comes under top 10 IT & Software training institute.



Hi I am Amit Kumar and my Enrollment ID with TechVidya is TV230967. I completed my Certification from TechVidya. They provides IT & Software courses in more practical & real scenario basis. Complete project based training help me to sharpen my technical skills.

TechVidya has always believed in helping and guiding its students and it was no different during the placement time. Regular classes held to help us with our aptitude and technical skills. Recommend to all the students who looking for best computer classes with quality education. Thanks TechVidya for explore my career.



## RECORD BREAKING PLACEMENTS 100% JOB PLACEMENT ASSISTANCE

MEET OUR PLACED STUDENTS



Anand Pandey  
Newgen



Sumi Singh  
R Systems



Baldev Singh  
Star Solutions



Meenakshi  
Chetu India



Neha Bisht  
PayTM



Jeewan Singh  
Aavishkar Ent.









Prem Prakash  
MPS Limited



## Career Assistance Services



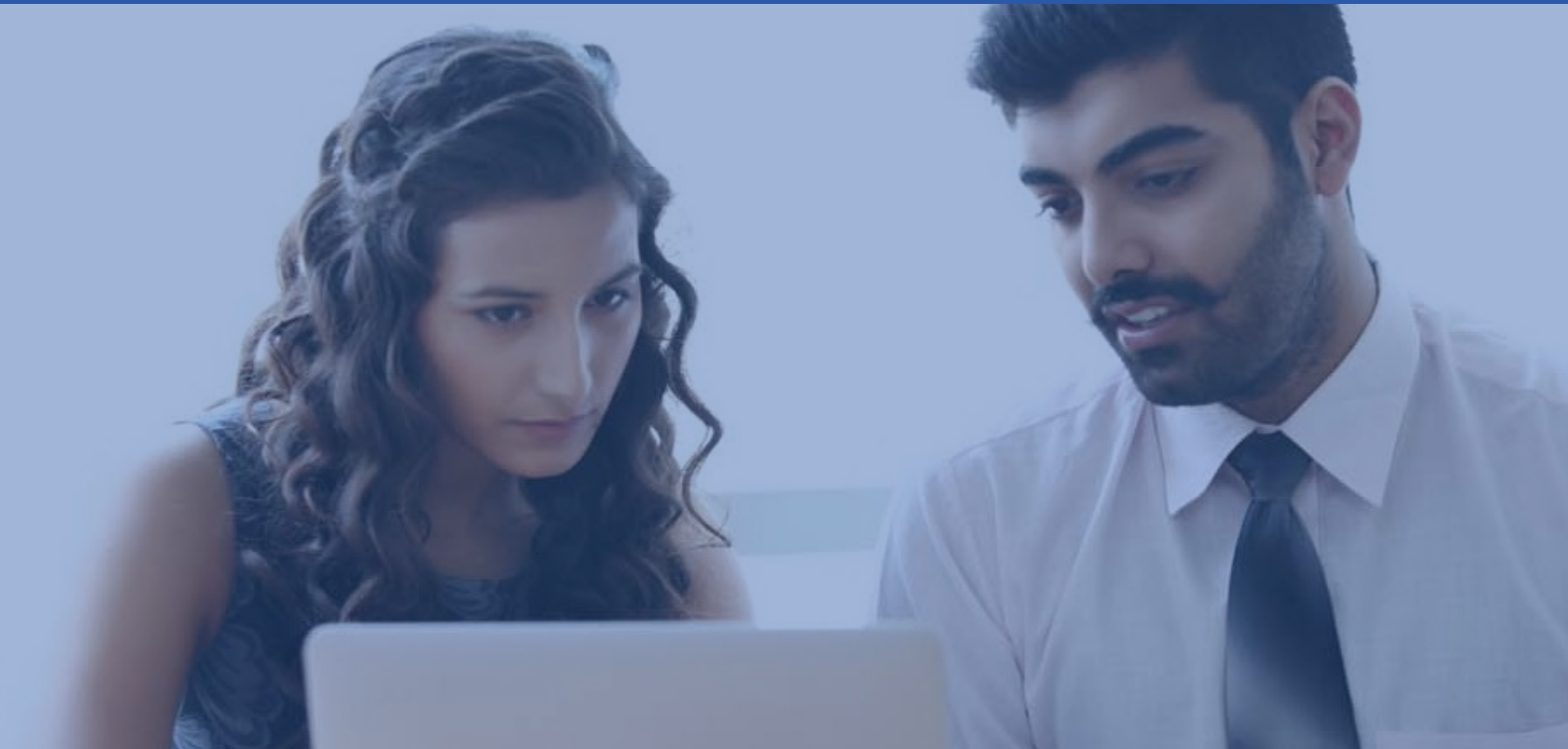
-  **Career Oriented Sessions**  Throughout the Course
-  **Resume & LinkedIn Profile Building**  After 70% of the Course Completion
-  **Mock Interview Preparation**  After 80% of the Course Completion

-  **1 on 1 Career Mentoring Sessions**  After 90% of the Course Completion
-  **Assured Interviews**  After 90% of the Course Completion
-  **1 Year Placement Assistance**  After 100% of the Course Completion



# Our Top Placement Partners





## TechVidya In News



08-Jan

ET Now- Startup Central

TIMESNOWNEWS.COM

22-Dec

What skills in demand & how should upgrade?

THE HINDU  
BusinessLine

14-Nov

Turning executive education into class act

EducationTIMES  
EST. ESTABLISHED

30-Sep

TechVidya Campaign  
#StayUpdatedStayAhead

YOUR  
STORY

02-Sep

How TechVidya enhance learning experience

THE ECONOMIC TIMES

16-Jun

The journey of an EduTech Company



## Contact Us



### Address:

TechVidya Career Private Limited  
A-78, Ground Floor  
Sector-2, Noida, Uttar Pradesh  
Landmark: Front of Metro Sec-15

### Number & Mail ID:

+91 83759 66700  
+91 98714 38701  
Email: [info@techvidya.education](mailto:info@techvidya.education)  
[www.techvidya.education](http://www.techvidya.education)



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