



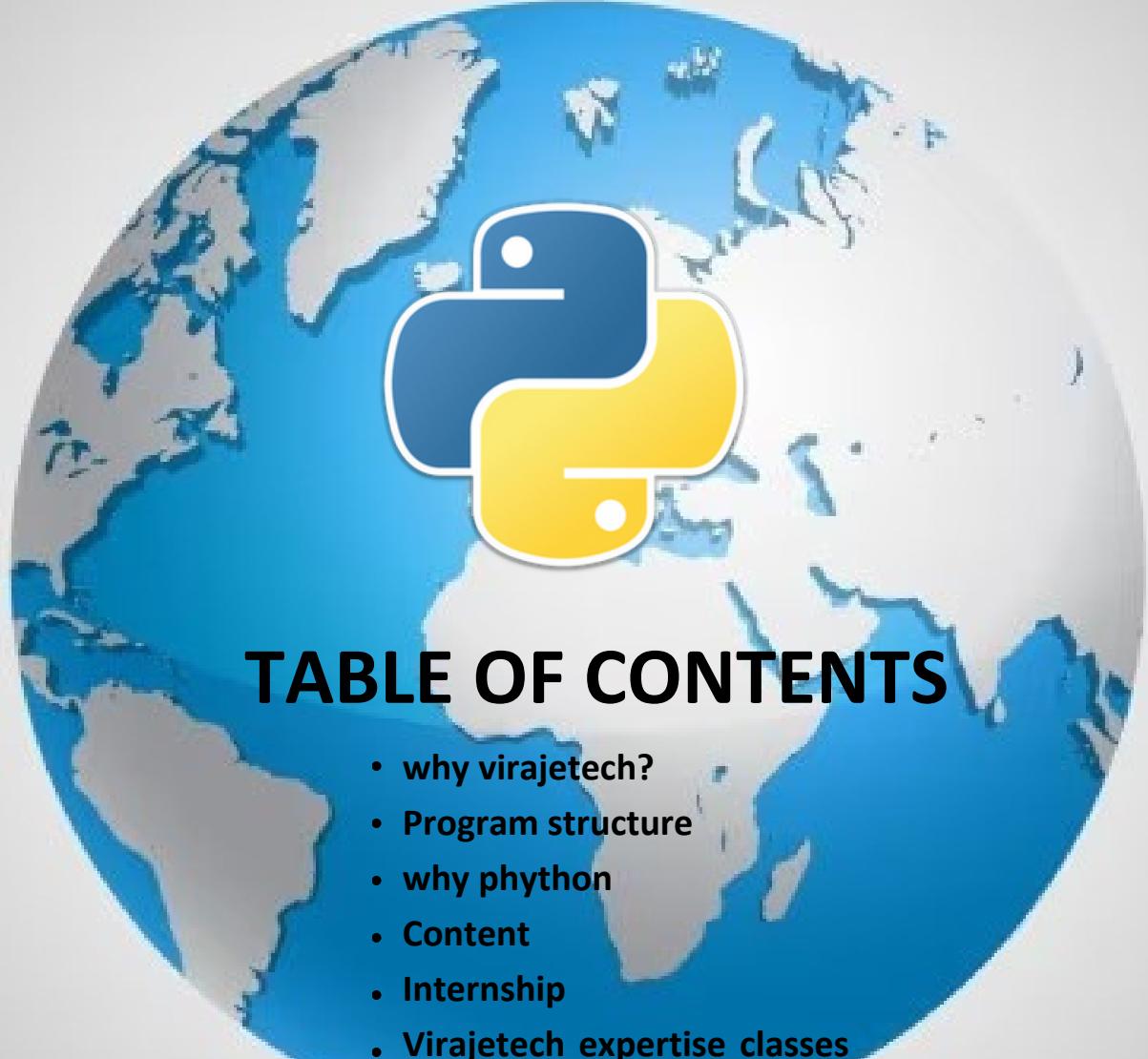
info@virajetech.com



8618501719



# CERTIFIED GCP PROGRAM BROCHURE



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# WHY VIRAJETECH?

## “OUR VISION”

To be the safest, most progressive Technology Provider, relentless in the pursuit of Client and employee excellence

Virajetech's Placement Team has garnered a reputation for the industry's most exceptional placement records. Their dedicated efforts have facilitated the successful transition of thousands of aspirants into flourishing careers.



### EXPERT TRAINERS

10+year experienced and Industry Experts  
Elite Faculty from Prestigious universities with deep research and coaching expertise



### COMPREHENSIVE

30 hours & 700+ Learning Hrs.  
Syllabus aligned with virajetech standards and rigorously updated to match with latest industry requirements

### JOB ASSISTANCE

End to End job Support  
Personalized resume and interview preparation support Job updates and connects

### REALTIME EXPERIENCE

Projects and Internships  
20 capstone projects and 1 client projects with active interaction  
Internship -developing POCs

# PROGRAM STRUCTURE

- THE COURSE FOR BEGINNER'S PROFESSIONALS AND INTERMEDIATE LEARNERS IN THE FIELD OF
- FULL STACK THIS IS A CAREER- ORIENTED PROGRAM, DESIGNED TO IMPART A STRONG FOUNDATION



- PRE COURSE SELF-STUDY
- HIGH QUALITY VIDEOS
- EASY LEARNING APPROACH.
- CERTIFICATIONS
- JOB READY PROGRAM



- LIVE TRAINING
- 30 HOUR A WEEK
- COMPREHENSIVE SYLLABUS
- HANDS-ON PROJECTS
- EXPERT TRAINERS AND MENTORS



# Python

# Python Programming full course

## WHY PYTHON?

In the IT industry, a Python course is essential for professionals as Python's simplicity and versatility make it a go-to language for web development, data science, and AI. Mastering Python accelerates project timelines, enhances productivity, and opens doors to diverse career opportunities in the rapidly evolving tech landscape. Employers highly value Python proficiency, recognizing its pivotal role in driving innovation and efficiency. Python's extensive community support ensures access to a wealth of resources and collaborative problem-solving. The language's popularity is evident in its use across various domains, making it a valuable skill for staying competitive in the ever-changing IT industry.



## 1. Introduction

- *Installing Python in Windows/Linux/Mac OS*
- *Using Python interpreter*
- *Execute a Script*
- *Structuring with Indentation*
- *Editors*

## 2. Introduction to Google Cloud

- *Variables*
- *Variables v/s identifiers*
- *Naming convention of variables*
- *KeywordsData preprocessing pipelines in Scikit-learn.*

## 3. String

- *Single-quote, double quote and multi-line strings*
- *String Operations ( Concatenation, Repetition, Indexing, Slicing, Splitting and joining )*

## 4. Control Flow

- **If/Else Statements**
- **For/while Statements**
- **Range() function**
- **Break and continue statements**
- **Else clauses on Loops**
- **Pass statements**

## 5. Functions

- **Defining Function**
- **Default Argument**
- **Keyword Argument**
- **Arbitrary Arguments List**
- **Unpacking Argument List**
- **Documentation Strings**

## 6. List Data Structure

- **Indexing**
- **Slicing**
- **Sorting**
- **List Comprehensions**
- **Appending to the list**
- **Extending the list**
- **Repetitions**

## 7.Tuples

- *Immutable objects*
- *Indexing*
- *Slicing*
- *Sorting*
- *Tuple Comprehensions*

## 8.Sets

- *Immutable objects*
- *Add, Clear, Copy Sets*
- *Difference*
- *Intersection*

## 9.Python Libraries for Data Science

- *Introduction to NumPy for numerical computing in Python.*
- *Manipulating arrays and matrices with NumPy.*
- *Essential operations for data analysis with Pandas.*
- *Data visualization using Matplotlib and Seaborn.*
- *Exploratory Data Analysis (EDA) techniques in Python.*
- *Introduction to statistical analysis with Python.*
- *Accessing and querying databases with Python.*
- *Web scraping and data extraction with Python.*
- *Time series analysis using Python libraries.*
- *Introduction to machine learning libraries: Scikit-learn, TensorFlow, and*

## **10. Advanced Python Concepts**

- *Object-oriented programming (OOP) in Python.*
- *Classes, objects, and inheritance in Python.*
- *Polymorphism and encapsulation in Python.*
- *Decorators and generators in Python.*
- *Context managers and the "with" statement.*
- *Advanced data structures: sets, dictionaries, and tuples.*
- *List comprehensions and lambda functions.*
- *Functional programming concepts in Python.*
- *Metaprogramming and dynamic programming in Python.*
- *Introduction to design patterns in Python.*

## **11. Web Development with Python**

- *Basics of web development using HTML and CSS.*
- *Introduction to web frameworks: Flask and Django.*
- *Creating a simple web application with Flask.*
- *Building a dynamic website with Django.*
- *Handling forms and user input in web applications.*
- *Implementing authentication and authorization.*
- *RESTful API development with Flask and Django.*
- *Templating engines and frontend integration.*
- *Database interactions in web applications.*
- *Deploying web applications using cloud platforms.*

## **12.Python Scripting and Automation**

- *Writing and executing Python scripts.*
- *Task automation using Python scripts.*
- *Working with command-line arguments in Python.*
- *File and directory manipulation with Python.*
- *System administration tasks using Python.*
- *Automating repetitive tasks with Python.*
- *Introduction to cron jobs and scheduling in Python.*
- *GUI automation with tools like Selenium.*
- *Creating custom automation scripts for specific tasks.*
- *Building practical automation projects*

## **13.Game Development with Python**

- *Introduction to game development concepts.*
- *Setting up a game development environment in Python.*
- *Creating a simple text-based game.*
- *Implementing graphical user interfaces for games.*
- *Game physics and collision detection in Python.*
- *Integrating sound and multimedia in games.*
- *Game design principles and best practices.*
- *Building a 2D game using Pygame.*
- *Developing a 3D game with Python libraries.*
- *Deploying and sharing games created with Python.*

## **14.Python and IoT (Internet of Things)**

- ***Introduction to IoT and its applications.***
- ***Connecting Python with IoT devices.***
- ***Interfacing sensors and actuators using Python.***
- ***Communication protocols for IoT in Python.***
- ***Data processing and analysis in IoT with Python.***
- ***Building a simple IoT project with Python.***
- ***IoT security considerations and best practices.***
- ***Remote monitoring and control using Python.***
- ***Integrating IoT with cloud platforms.***
- ***Real-world examples of Python in IoT applications.***

# INTERNSHIP

Explore valuable internship opportunities with us! Join a dynamic and innovative environment, collaborate on real-world projects, and enhance your skills. We're seeking motivated individuals with a passion for learning and strong communication skills. This internship offers hands-on experience, exposure to industry best practices, and potential career pathways.



## VIRAJETECH EXPERTISE CLASS



## VIRAJETECH EXPERTISE CLASS

## PLACEMENT ASSISTANCE TEAM



### PROJECT MENTORING

35 hours Live  
Mentoring in industry  
projects

### DOUBTS SESSIONS

Twice a week, Live  
doubts session from  
mentors and experts

### JOB COUNSELLING

Mapping your  
profile to suitable  
job role

### INTERVIEW QUESTIONS

Frequently asked  
interview questions  
course included

### ALUMNI CONNECT

Connect with  
successful Alumni to  
learn from experience

### RESUME SUPPORT

Personalized resume  
creation support from  
professionals

## PLACEMENT ASSISTANCE



Mercedes-Benz



# OUR LEARNER'S FEED BACK

## HIGHEST LEVEL OF CUSTOMER DELIGHT



ruchi s

1 review · 3 photos

★★★★★ 3 months ago

VirajeTech has been a game-changer for me. Their training courses have provided me with the skills I needed to excel in my career 4X. The instructors and Arjun sir are passionate about what they do, and it shows in their teaching. Hands on and practical way of teaching, I highly recommend VirajeTech to anyone looking to further their knowledge and skills

⋮



Anoop G

6 reviews

★★★★★ 3 months ago

Getting placed at Amency was a dream come true, and I owe a big thank you to VirajeTech for making it possible. The instructors were experts in their field, and they created a supportive learning environment. The hands-on approach and practical exercises made all the difference.

⋮



Sachidanand Shahane

3 reviews

★★★★★ 7 months ago

I am part of the AWS Associate master Class. The course was designed in a fashion that we are able to cover most of the content in a very short time. our trainer Kumar sir clarified any doubt we had and also pushed us to do the practicals which is really helpful in the learning process. He having vast knowledge and experience in Devops and Multi cloud platform(AWS,Azure,GCP),he provide the opportunity to get as much knowledge and guidance as possible. each session are interactive has real time use cases.

⋮



Sayali Gawde

2 reviews

★★★★★ a year ago

Thanks for the AWS tutoring by Virajtech. The best decision I have taken in my career so far. Instructor was very helpful and gave all possible solutions related to the problem which we faced in real time scenarios. This is what I have experienced in this course, a very practical and beneficial one.

⋮



Piyush Poply

2 reviews

★★★★★ 3 years ago

I am connected with this organization since its inception. This is one of the best places to learn, practice and grow your skills up to the standards of the industry. As in IT industry, maintaining your skills and updating yourself is the most important thing, we should never stop learning and this is exactly what this institute provides. The online classes are really great as well as the trainers.

⋮



Harpreet Singh

12 reviews

★★★★★ 7 months ago

Give very detailed explanation and also live teaching classes. Covering all latest topics which for sure help in getting jobs in today's market

⋮

# ADMISSIONS AND CONTACTS

ENQUIRE FOR DETAILED INFORMATION FOR ENROLLMENT

DURATION:35 HOURS

LEARNING : ONLINE MODE

b 1st floor, 64, 3rd Cross Rd, Electronics City Phase

1, Electronic City, Bengaluru, Karnataka 560100

PHN NO:8618501719



SELF STUDY

**8 HRS/WEEK**



INSTRUCTOR LED LIVE ONLINE LEARNING

**8 HRS/WEEK**



PROJECTS & ASSESSMENTS

**4 HRS/WEEK**

**20 HOURS A WEEK COMMITMENT**



**PYTHON IS RATED AS THE TOP CAREER  
HIGHEST PAID – RECESSION PROOF – MILLIONS OF JOBS**



TAKE YOUR FIRST STEP TOWARDS PYTHON CAREER

**ENQUIRE NOW**

# THANK you



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