



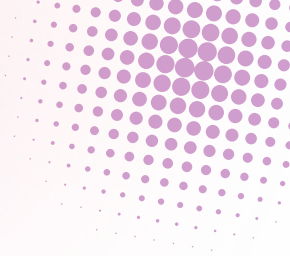
DataTeach.ai

Python full Stack

CURRICULUM

Online/Offline





PYTHON FULL STACK

Syllabus

Introduction:

- Introduction to python
- Features of python
- Advantages of python over other programming language
- Anaconda installation
- Jupyter notebook Basics

Data Types & Data Structures

- Variables
- Data Types
- Operators
- Strings
- Lists
- Sets
- Tuples
- Dictionaries

Control Flow & Conditional Statements

- Operators
- if
- elif and else statements
- range
- while loops and control flow.

- for loops and nested loops
- pass, break and continue
- Nested loops and list
- dictionary comprehensions.

Functions and Modules

- What is function and types of functions
- Code optimization and argument functions
- Lambda functions.
- Map, filter
- Manual higher order functions & nested functions
- Importing a module
- Namespace & scope of a variable using help() and dir() aliasing or renaming
- Some Important Modules In Python: math module
- random module
- datetime and os module.

Class and Objects

- Create A Class And Objects
- __init__()
- self parameter
- Class Properties
- Instance Properties & Static Properties
- Modifying Object Properties
- Delete Object
- Pass Statements
- 4 pillars of oop
- Inheritance
- Encapsulation
- Polymorphism
- Abstraction
- Multiple dispatch & abc modules.

File Handling

- Errors and Exception Handling,
- Create, Read, Write files
- Operations in File Handling.

MySQL Database

- Learn about MySQL database its operators
- string functions
- working with MySQL workbench
- MySQL joins and more

Python for Web Development – Flask

- Learn about Flask, a Python web framework
- Flask introduction and installation
- Building routes with Flask
- Learn how to install Flask, its components
- Importance of a virtual environment for project development.

Building routes with Flask

- Learn about dynamic routes
- Redirection
- URL building
- URL converters, requests, and responses in Flask.

Getting into Front-end Web Development

- HTML
- Learn basic HTML concepts, including page structure
- formatting content
- creating lists and links
- controlling styling.

CSS3

- Learn about CSS3, its core concepts
- Flask request handling
- Jinja 2 template engine
- Dynamic web pages with Flask-Jinja2.

CSS

- Learn about typography
- layouts
- login system with Flask
- server-side sessions
- file handling with Flask
- advanced layouts.

JavaScript

- Learn about typography
- Layouts
- Login systems with Flask
- Server-side sessions
- File handling with Flask
- Advanced layouts.



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KEY HIGHLIGHTS OF THE TRAINING



100+ hours of learning



Instructor-Led LIVE Sessions



Life-time LMS Access



LIVE Doubt Resolution



Topic-wise Assignments



Weekly Quizzes



Monthly Assessments



20+ Use Cases



Mock Interviews



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