



# CORE PYTHON

- Introduction of Python
- Installing Python IDEs – Python IDLE and Anaconda
- Writing Your First Python Program
- Datatypes in Python
- Variables in Python – Declaration and Use
- Typecasting in Python
- Operators in Python – Assignment, Logical, Arithmetic etc.
- Taking User Input (Console)
- Conditional Statements – If else and Nested If else and elif
- Python Collections (Arrays) – List, Tuple, Sets and Dictionary
- Loops in Python – For Loop, While Loop & Nested Loops
- String Manipulation – Basic Operations, Slicing & Functions and Methods
- User Defined Functions – Defining, Calling, Types of Functions, Arguments
- Lambda Function
- Importing Modules – Math Module

## **Advance Python**

### **Object Oriented Programming in Python**

- Basics of Object-Oriented Programming
- Creating Class and Object
- Constructors in Python – Parameterized and Non-parameterized
- Inheritance in Python
- In built class methods and attributes
- Multi-Level and Multiple Inheritance
- Method Overriding and Data Abstraction
- Encapsulation and Polymorphism

### **Additional classes**

- Django Basics
- HTML Basics
- CSS Basics

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- JavaScript Basics
- SQL Basics
- Django base Project

# PYTHON FULL STACK

## Data Science Overview

### Topics Covered :

- Introduction To Full Stack Development
- Life Cycle of Full Stack Development
- Tools and Technologies used in Full Stack Development
- Skills required for Full Stack Development
- Careers Path in Full Stack Development
- Future Of Full Stack Development
- Front End, Back End, Life cycle of web development

### Fundamentals of computer science

Learning fundamentals of computer science

### Topics Covered :

Programming Basics  
Fundamentals of Computer  
Using Windows Explorer & File Structure  
Number Systems  
Application Software  
Operating System & Networking  
Need for operating system  
Functions of Operating System  
Process Management Memory  
Management

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File Management  
Device Management  
Types of operating system  
TCP/IP fundamentals  
Networks and computer networks  
2 tier, 3 tier and n-tier architecture

### ✦ Relational Database Management System:

Introduction to RDBMS  
Installing MySQL  
Retrieving  
Updating Inserting  
Deleting  
Sorting AND Filtering  
Summarizing AND Grouping  
Using Subqueries  
Joining Tables  
Views  
Stored Procedure  
Python Database Connection API Subnets

## Python for Web development

### Topics Covered :

- Python programming: ○
  - Environment Setup ○
  - Jupyter Notebook
  - Overview
- Data
  - types:Numbers,Strings,P
  - rinting,Lists,Dictionaries,
  - Booleans,Tuples
  - ,Sets

- Comparison Operators
  - if, elif, else Statements
  - Loops: for Loops, while Loops
- range() ○ list comprehension ○ functions ○ lambda expressions ○ map and filter ○ methods ○ Programming Exercises.
  - Object Oriented Programming ○ Modules and packages
  - Errors and Exception Handling ○ Python Decorators ○ Python generators ○ Collections ○ Regular Expression

## **HTML : Hyper Text Markup Language**

### **Topics Covered :**

- What is HTML
- Setting up the environment
- HTML elements and Tags
- Singular and Paired tags
- Structure of an HTML page
- Heading and Paragraph Tags
- Attributes in HTML
- Images
- Links - Internal and External
- Lists

- Tables
- The style attribute
- Colors in HTML
- HTML5 semantic tags
- HTML5 audio and video tags

## **CSS : Cascading Style Sheets**

### **Topics Covered :**

- What is CSS and why it is required.
- Inline CSS
- Internal CSS
- external stylesheets
- Overriding CSS Styles
- Common CSS Properties
- CSS units
- The CSS Box Model
- More CSS Properties
- CSS Pseudo-classes
- Styling Tables
- Elements Positioning, Working with Layouts

- Multi-Column Layouts with CSS3
- Dealing with Cross Browser Layouts
- Media Queries,Print CSS3

## Bootstrap :

### **Topics Covered :**

- Java Script Operators
- JS Control Flow
- JS While Loops
- JS For Loops
- Java Script Functions
- Function Exercises
- JS Three Arrays
- JS Array
- JS Objects Text preprocessing using Bag of words technique
- Document Object Model Introduction
- Document Object Model- Events
- JQuery Advanced

## Django

## Topics Covered :

- Django Setup
- Django Basics
- Django Project
- Application
- Django - URL
- Mappings
- Django - Templates
- Django Templates
- Django Templates
- Django Static Files
- Django Models Overview
- Creating Models
- Population Scripts
- Models-Templates-Views Paradigm
- Django Project Exercise
- Django Forms
- Form Basics Code Along
- Form Validation
- Model Forms
- Model Forms Exercise
- Relative URLs with Templates
- URL Template Inheritance
- Quick Note on Custom Template Filters
- Template Filters and Custom Filters
- Django Passwords
- User Models
- Quick note about forms!
- Coding User Models and Forms
- Registration
- Template Views with CBV
- Detail View and List View
- CRUD Views
- Debug Toolbar

- Introduction to Admin
- Admin Templates
- Ordering Fields
- Adding Search
- Adding Filters
- Adding Fields
- Editable List View