

COURSE CONTENT – PYTHON

Introduction To Programming

- What Is Programming
- Software Development
- SDLC Techniques
- Version Controlling

Introduction To Python

- What Is Python
- History Of Python
- Why Do We Need To Learn Python
- Various Fields Of Python

Getting started With Python Programming

- How To Install Python
- What Is IDE
- Different IDEs
- How To install Pycharm
- Setting Up Python In Your System
- Basic Program In Python

Data Types And Variables

- What Is A Data Type
- Different Data Types In Python
- What Is A Variable
- Declaring And Defining A Variable In Python
- Typecasting
- Keywords And Statements



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Operators And Input/output

- Arithmetic Operators
- Comparison Operators
- Logical Operators
- Assignment Operators
- Standard Input
- Standard Output
- File I/O

Data Structures In Python

- What Are Sequence Data types
- Lists
- Tuple
- Sets
- Dictionaries
- Data Structure Operations

Decision Making Statements

- What Are Conditional Statements
- If-Else Statement
- Match Case
- Nested If Statement

Loops In Python

- What Are Loops
- For Loop & While Loop
- Understanding The Infinite Loop Scenario



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Flow Control

- Conditional Control Statement
- Loop Control Statements
- Control Flow In Exception Handling
- Advanced Flow Control Techniques

Functions

- What Are Functions In Python
- Types Of Functions
- Function Scope
- Recursion And Lambda
- Modules And Packages
- The Return Keyword
- Passing Arguments To A Function
- Default Arguments

Object-Oriented Programming

- Introduction And Terminologies
- Objects And Classes
- Constructors
- Inheritance And Overloading

Advance Python-1

- Exception Handling
- Regex



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Advance Python-2

- Decorators
- Closures
- Iterators
- Date And Time Module

File Handling

- What Is File Handling
- Different Access Modes
- Read A File
- Write A File
- File Operations
- Directory Operations

Database

- Python With SQL
- Python With NoSQL

Python For Data Science

- Setting Up An Environment With Anaconda
- Numpy

Python For Data Analysis

- Pandas
- Data In Machine Learning



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Python For Data Visualization

- Matplotlib
- Seaborn

Machine Learning Introduction

- What Is Machine Learning
- Lifecycle And Algorithms

Machine Learning Application

- Regression
- Classification

Machine Learning Algorithms

- Datasets And Algorithms
- Using Algorithms And Recording Metrics

Creating UI

- HTML & CSS
- JavaScript

Flask

- API Endpoints Using Flask
- Fullstack Application In Flask

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