

PYTHON

Introduction to Python

- Writing and running your first Python program
- Installing Python and setting up the development environment
- Variables, data types, and basic input/output
- Overview of Python and its features

Functions and Modules

- Defining functions and parameters
- Scope and lifetime of variables
- Importing and using Python modules
- Built-in functions and libraries

Error Handling

- Understanding exceptions
- Using try, except, and finally
- Raising custom exceptions
- Best practices for error handling

Introduction to Python Libraries

- Introduction to popular Python libraries such as NumPy, Pandas, and Matplotlib
- Basic data manipulation and visualization with these libraries

Control Structures

- Loops (for and while)
- Writing and understanding conditional code
- Using logical operators
- Variables, data types, and basic input/output
- Conditional statements (if, elif, else)

Data Structures

- Indexing and slicing
- Iterating through data structures
- List comprehensions
- Lists, tuples, and dictionaries

Object-Oriented Programming (OOP)

- Introduction to OOP concepts
- Classes and objects
- Abstraction and Encapsulation
- Inheritance and polymorphism
- Types of inheritance.

Project

- Introduction to Business Problem
- Constraints
- Solving the business problem with python
- Deployment using streamlit.
- Creating and using classes in Python

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