**Why Choose Python?**

✔ Versatile and beginner-friendly programming language.  
✔ Widely used in web development, data science, and automation.  
✔ High demand in industries like AI, ML, and cybersecurity.  
✔ Extensive libraries and community support.

**What You Will Learn?**

**Python Fundamentals**

✔ Understanding Python syntax and structure.  
✔ Variables, Data Types, and Operators.  
✔ Conditional Statements and Loops.  
✔ Functions and Modules.  
✔ Exception Handling and Debugging.

**Object-Oriented Programming (OOP)**

✔ Classes and Objects.  
✔ Inheritance and Polymorphism.  
✔ Encapsulation and Abstraction.  
✔ Working with Magic Methods.  
✔ Real-world OOP Applications.

**Data Handling with Python**

✔ Working with Lists, Tuples, and Dictionaries.  
✔ File Handling (Reading/Writing Files).  
✔ JSON and XML Parsing.  
✔ Data Manipulation using Pandas.  
✔ NumPy for Numerical Computations.

**Web Development with Python**

✔ Introduction to Flask & Django.  
✔ Building RESTful APIs.  
✔ Working with Databases using SQLAlchemy.  
✔ Authentication & Security in Web Apps.  
✔ Deploying Python Web Applications.

**Automation & Scripting**

✔ Writing Python Scripts for Task Automation.  
✔ Working with OS and Sys Modules.  
✔ Web Scraping with BeautifulSoup & Selenium.  
✔ Automating Excel and CSV Tasks.  
✔ Building CLI Applications.

**Data Science & Machine Learning**

✔ Data Analysis with Pandas & NumPy.  
✔ Data Visualization with Matplotlib & Seaborn.  
✔ Introduction to Machine Learning with Scikit-learn.  
✔ Training & Evaluating ML Models.  
✔ AI & Deep Learning Basics with TensorFlow/Keras.

**Advanced Python Topics**

✔ Multithreading & Concurrency.  
✔ Working with APIs & HTTP Requests.  
✔ Unit Testing & Test Automation.  
✔ Performance Optimization & Debugging.  
✔ Introduction to Cybersecurity with Python.

**Who Should Enroll?**

✅ Students & Beginners looking to start programming.  
✅ Developers & Engineers expanding their skill set.  
✅ Data Analysts & Scientists working with Python.  
✅ Business Professionals automating tasks with Python.

**Course Benefits**

📌 Hands-on Training with Real-world Projects.  
📌 Industry-Recognized Certification.  
📌 Expert Mentorship & Career Guidance.  
📌 Flexible Learning Options (Online & Offline).  
📌 Access to Python Community & Coding Challenges.  
📌 Career Assistance & Resume Building.  
📌 Capstone Projects for Portfolio Development.

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