



01

Python

FLASK



Flask



Experience Level: **ADVANCED**



Number of Classes: **50**



Age Range: **ALL AGES**

01

Fundamentals of the Python

- Printing.
- Strings.
- Variables.
- Operators.
- String Indexing.
- Slicing.

02

Understanding Program Flow Control

- Conditional statements.
- If, elif, else blocks
- Iterations.



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02

02

Understanding Program Flow Control (Contd.)

- Loops.
- For loops and while loops.

03

Lists

- List operations.
- Iterating over lists.
- Sorting.
- Nesting.

04

Tuples

- Unpacking tuples.
- Functions.
- Function definitions.
- Parameters.

05

Dictionaries

- Sets.
- Input and Output

06

File Manipulation & Advanced Concepts

- Reading Files.
- Writing Files.
- Classes and Objects in Python.
- Inheritance.
- Building a login and sign-up system.



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07

Flask

- Introduction to Flask.
- How to make a website with Flask.
- HTML Templates.
- Adding Bootstrap and Template Inheritance.
- HTTP Methods (GET and POST)
- Retrieving Form Data.
- Sessions.
- Message Flashing.
- Using SQLAlchemy Database.
- Adding, Deleting and Updating Users with SQLAlchemy.
- Static Files (Custom CSS, Images and JavaScript).
- Blueprints and Using Multiple Python Files.

08

Git and GitHub

- What is Git?
- What is Version Control?
- Git Commands.
- Using Git in Local Machines.
- Cloning through VS Code.
- Git Commit Command.
- Git Push Command.
- Git Branching.
- Undoing and Forking.



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09

SQL

- Introduction to SQL.
- Data and Database.
- How to Create a Database.
- Drop Database.
- Create and Drop Tables.
- SQL Basic Queries:
 - SELECT
 - WHERE
 - AND, OR, NOT.
 - INSERT INTO.
 - AGGREGATE FUNCTIONS.
 - GROUP BY, HAVING, ORDER BY.
 - NULL.
 - UPDATE & DELETE.
 - IN & BETWEEN OPERATORS
 - ALIASES IN SQL



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