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PYTHON PROGRAMMING

Core Python Fundamentals

- ❖ Introduction to Python
- ❖ Introduction to Library Functions
- ❖ Data Types
- ❖ Operators
- ❖ Input / Output Statements
- ❖ Control Statements
- ❖ Functions

Advanced Python

- ❖ Object-Oriented Programming (OOP)
- ❖ Comprehensions
- ❖ Lambda, Map, Filter
- ❖ Decorators, Iterators, Generators

Python Development

- ❖ File Handling
- ❖ Error Handling & Exceptions
- ❖ Package Architecture
- ❖ Regular Expressions
- ❖ SQL Connection

Advanced Concepts

- ❖ Multi-threading
- ❖ Real-time Projects

DJANGO FRAMEWORK

Django Basics

- ❖ Introduction to Django
- ❖ Getting Started with Django

Web Development with Django

- ❖ Views and Templates
- ❖ Static Files and Media
- ❖ URL Routing and Navigation

Database Integration

- ❖ Models and Databases
- ❖ Django Admin Interface

Advanced Django

- ❖ Forms and Validation
- ❖ User Authentication & Authorization

- ❖ RESTful Web Services
- ❖ Advanced Topics

HTML (Web Structure)

- ❖ Introduction to HTML
- ❖ HTML5 Basics
- ❖ Helper Elements for Web Page Structure
- ❖ Anchor Tags & Hyperlinks
- ❖ HTML Multimedia Embedding
- ❖ HTML Frames
- ❖ Advanced HTML Concepts
- ❖ HTML References

CSS (Web Design)

- ❖ CSS Selectors
- ❖ CSS Units
- ❖ Typography & Text Styling
- ❖ Box Model
- ❖ CSS Colours & Backgrounds
- ❖ CSS Layouts
- ❖ CSS Animations
- ❖ Responsive Web Design

Advanced CSS

- ❖ CSS Frameworks
- ❖ CSS Lists
- ❖ CSS Functions
- ❖ Specificity
- ❖ Z-Index
- ❖ CSS Opacity
- ❖ Image Sprites
- ❖ CSS Entities
- ❖ Filters

JAVASCRIPT (Web Interaction)

JavaScript Fundamentals

- ❖ Introduction to JavaScript
- ❖ JS File Structure
- ❖ Output Methods
- ❖ Variables & Tokens

- ❖ Hoisting
- ❖ Operators & Statements

JavaScript Data Handling

- ❖ Data Types
- ❖ Typecasting
- ❖ Primitive & Non-Primitive Data Types
- ❖ JSON

Advanced JavaScript

- ❖ Copying in JS
- ❖ This Keyword
- ❖ Prototype
- ❖ Function Prototype Methods
- ❖ OOP Concepts
- ❖ ES6 Classes

Async & Browser APIs

- ❖ Synchronicity in JavaScript
- ❖ Promises
- ❖ Browser Storage
- ❖ DOM
- ❖ DOM Events
- ❖ Event Propagation

SQL (Database Management)

Database Basics

- ❖ Introduction to SQL
- ❖ Data Types
- ❖ Constraints

Querying Data

- ❖ SQL Statements Overview
- ❖ Data Query Language (DQL)
- ❖ Operators
- ❖ Functions
- ❖ Grouping & Sorting

Advanced Queries

- ❖ Subqueries
- ❖ Joins
- ❖ Co-related Subqueries

Database Management

- ❖ Data Definition Language (DDL)
- ❖ Data Manipulation Language (DML)
- ❖ Transaction Control Language (TCL)
- ❖ Data Control Language (DCL)
- ❖ Normalization