



Python Full Stack

Data Science Overview

Topics Covered :

- Introduction To Full Stack Development
- Life Cycle of Full Stack Development
- Tools and Technologies used in Full Stack Development
- Skills required for Full Stack Development
- Careers Path in Full Stack Development
- Future Of Full Stack Development
- Front End, Back End, Life cycle of web development

Fundamentals of computer science

- ✓ Learning fundamentals of computer science

Topics Covered :

- ✓ Programming Basics
- ✓ Fundamentals of Computer
- ✓ Using Windows Explorer & File Structure
- ✓ Number Systems
- ✓ Application Software
- ✓ Operating System & Networking
- ✓ Need for operating system
- ✓ Functions of Operating System
- ✓ Process Management Memory Management
- ✓ File Management

- ✓ Device Management
- ✓ Types of operating system
- ✓ TCP/IP fundamentals
- ✓ Networks and computer networks
- ✓ 2 tier, 3 tier and n-tier architecture

❖ Relational Database Management System:

- ✓ Introduction to RDBMS
- ✓ Installing MySQL
- ✓ Retrieving
- ✓ Updating
- ✓ Inserting
- ✓ Deleting
- ✓ Sorting AND Filtering
- ✓ Summarizing AND Grouping
- ✓ Using Subqueries
- ✓ Joining Tables
- ✓ Views
- ✓ Stored Procedure
- ✓ Python Database Connection API Subnets

Python for Web development

Topics Covered :

- Python programming:
- Environment Setup
- Jupyter Notebook Overview
- Data types: Numbers, Strings, Printing, Lists, Dictionaries, Booleans, Tuples, Sets
- Comparison Operators
- if, elif, else Statements
- Loops: for Loops, while Loops
- range()
- list comprehension
- functions
- lambda expressions

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- map and filter
- methods
- Programming Exercises.
- Object Oriented Programming
- Modules and packages
- Errors and Exception Handling
- Python Decorators
- Python generators
- Collections
- Regular Expression

HTML : Hyper Text Markup Language

Topics Covered :

- What is HTML
- Setting up the environment
- HTML elements and Tags
- Singular and Paired tags
- Structure of an HTML page
- Heading and Paragraph Tags
- Attributes in HTML
- Images
- Links - Internal and External
- Lists
- Tables
- The style attribute
- Colors in HTML
- HTML5 semantic tags
- HTML5 audio and video tags

CSS : Cascading Style Sheets

Topics Covered :

- What is CSS and why it is required.
- Inline CSS
- Internal CSS
- external stylesheets
- Overriding CSS Styles
- Common CSS Properties
- CSS units
- The CSS Box Model
- More CSS Properties
- CSS Pseudo-classes
- Styling Tables
- Elements Positioning, Working with Layouts
- Multi-Column Layouts with CSS3
- Dealing with Cross Browser Layouts
- Media Queries, Print CSS3

Bootstrap :

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Topics Covered :

- Java Script Operators
- JS Control Flow
- JS While Loops
- JS For Loops
- Java Script Functions
- Function Exercises
- JS Three Arrays
- JS Array
- JS Objects Text preprocessing using Bag of words technique
- Document Object Model Introduction
- Document Object Model- Events
- JQuery Advanced

Django

Topics Covered :

- Django Setup
- Django Basics
- Django Project
- Application
- Django - URL
- Mappings
- Django - Templates
- Django Templates
- Django Templates
- Django Static Files
- Django Models Overview
- Creating Models
- Population Scripts

- Models-Templates-Views Paradigm
- Django Project Exercise
- Django Forms
- Form Basics Code Along
- Form Validation
- Model Forms
- Model Forms Exercise
- Relative URLs with Templates
- URL Template Inheritance
- Quick Note on Custom Template Filters
- Template Filters and Custom Filters
- Django Passwords
- User Models
- Quick note about forms!
- Coding User Models and Forms
- Registration
- Template Views with CBV
- Detail View and List View
- CRUD Views
- Debug Toolbar
- Introduction to Admin
- Admin Templates
- Ordering Fields
- Adding Search
- Adding Filters
- Adding Fields
- Editable List View