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Full Stack

PYTHON

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Course Content

Module 1. Core & Advanced Python:

Introduction to Python programming

- Python software installation
- Python Features
- Python Architecture
- Variables & types
- Identifiers
- Data types
- Operators & types
- Type casting
- Conditional statements
- Python loops
- Functions & types
- Arguments & types
- Python modules & types
- Object oriented programming system concepts (OOPS)
- Encapsulation
- Class
- Object
- Inheritance & types
- Abstraction
- Polymorphism & types
- Constructor & types
- Static
- Input function
- Exception handling
- built in exceptions & user defined
- File handling functions
- Multi-threading
- Iterator
- Generator
- PyCharm IDE
- Python Exam/Mock interview

NumPy library:

- NumPy module
- Arrays
- Dimensions in Arrays
- Slicing Arrays

- NumPy Data types
- Array functions
- Splitting Array
- Sorting Array
- Filtering Array
- Ufuncs
- NumPy Exam
- Mock interview

Pandas Library:

- Pandas installation
- Pandas module
- Series
- Data frames
- Label
- Read CSV
- Write CSV
- Read JSON
- Write JSON
- Analyzing data frames
- Data cleaning
- Empty cells data
- Data in wrong format
- Wrong data
- Duplicate data
- Pandas Exam/
- Mock interview

Matplotlib library:

- Introduction to Matplotlib
- Installation of Matplotlib
- Data visualization
- Matplotlib module
- Plotting
- Markers
- Labels and Title
- Adding Grid Lines
- Subplot
- Scatter plots
- Bars
- Histograms
- Pie Charts
- Matplotlib Exam/Mock Interview

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Module 2-SQL:

SQL introduction

- MYSQL database server installation
- DDL
- DML
- DQL
- TCL
- Constrains & types of constrains
- SQL Operators & types
- Joins & types
- Views
- Limit
- Index
- Order by clause
- Where clause
- Group by clause
- Having clause
- Like
- Commit
- rollback
- procedures
- functions
- cursors
- SQL Exam
- Mock interview

Module 3-Frontend Technologies:

1.HTML:

- Introduction to Html, Internet, webpage, browsers
- Header tag
- Title tag
- Body tag
- HyperLink tag
- Image tags
- Setting background images
- Setting background colors
- Font tags
- Table tags
- Form tags
- Input tags
- Text
- Radio button
- Checkbox
- Button

- Submit
- Password
- Reset
- Date
- File
- Email
- url
- telephone
- number
- textarea
- drop down boxes
- select tags
- option tags
- Attributes
- Iframe
- List & types of list tags
- Symbol entities
- QR code generation
- HTML Layouts
- Responsive webpages
- Video
- Audio
- HTML Exam
- Mock interview

2.Cascading style sheets (CSS):

- Introduction to CSS
- CSS syntax
- Selectors
- Properties
- Inline CSS
- Internal CSS
- External CSS
- CSS Font properties
- CSS Border properties
- CSS Padding properties
- CSS Cursor properties
- CSS Table properties
- CSS Link properties
- Styling different types of input tags
- CSS list properties
- Types of selectors
- CSS Exam
- Mock interview

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3.JAVA SCRIPT:

- Introduction to Java script
- Java script features
- Java script advantages
- Types of java script code
- Java script variables
- Java script operators
- Java script conditional statements
- Java script looping statements
- Arrays & types of Arrays
- Java script String object methods
- Java script Date object methods
- Browser Object Model (BOM)
- Window object methods
- History object methods
- Navigator object methods
- Screen object methods
- Location object methods
- Document object Model(DOM)
- DOM object methods
- Java script form validations
- Java script Event Handling
- Java script JSON object
- Java Script Exam
- Mock interview

4.REACT JS:

- Introduction to React JS
- React JS features
- React Library
- Create react app tool
- Java script XML(JSX)
- React components & types
- React properties
- React conditional rendering
- React event management
- React form programming
- Hooks & types
- Use state Hook
- Use effect hook
- Use context hook
- Use ref hook
- Use reducer hook
- React with CSS integration
- React with bootstrap

- React Router
- React constructor & types of initializations
- React Exam
- Mock interview

Module 4- Frameworks:

Python Database Connectivity (PDBC):

- PDBC Library
- Connect to MySQL database
- Cursor
- Execute
- Fetchall
- Commit
- Close
- PDBC Exam
- Mock Interview

Django framework

- Introduction to web application
- Features of Django framework
- Django library
- Model View Template (MVT) Architecture
- Django Model
- Django with database
- Django Admin Interface
- Django Views
- Django Templates
- Django Template Variables
- Template Tags
- Django include Tag
- Django - Page Redirection
- Loading Static Files
- Django Exam
- Mock interview

REST API

- Introduction to Rest API
- Django REST Framework
- Rest Architecture
- HttpRequest
- HttpResponse
- JSON
- Consumer
- Service provider
- Database

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- Http methods & types
- Postman
- Rest Endpoints

PYTHON- ARTIFICIAL INTELLIGENCE(AI):

- AI introduction
- Prompts
- Responses
- LLM models
- AI Architecture
- Open AI key
- Integrating python with ChatGPT AI tool

GIT/GITHUB:

- Git introduction and installation
- GitHub registration
- Git configuration
- Git repository
- Initializing Git
- Git staging
- Git commit
- Github repository
- Git push
- Git pull

AWS Cloud server:

- Cloud computing introduction
- Features of Cloud computing
- Advantages of Cloud Computing
- AWS registration
- AWS services
- S3 service
- Web application on AWS cloud server
- AWS application endpoint

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-  **Manual Testing**
Manual Test Engineer
-  **Selenium Testing**
Automation Test Engineer
-  **TOSCA**
TOSCA Test Engineer
-  **API&ETL Testing**
API Test Engineer
-  **Performance Testing**
LoadRunner & JMeter

Developing Programs

-  **Full Stack Java**
Full Stack Java
-  **Core Java**
Core Java
-  **Adv Java & Frameworks**
Adv Java & Frameworks
-  **Full Stack Python**
Full Stack Python
-  **Python Programming**
Python Programming
-  **DJANGO & Frameworks**
DJANGO & Frameworks

Advanced Programs

-  **DevOps**
DevOps Engineer
-  **Data science with AI**
Data science with AI
-  **Data Analytics**
Data Analytics
-  **Selenium with C#**
Selenium with C#
-  **Playwright Automation**
Playwright Automation
-  **Python with Selenium**
Python with Selenium

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Project Training



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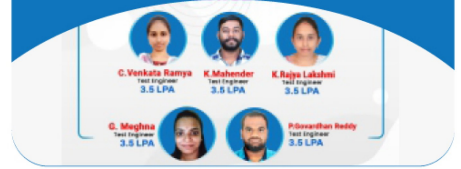
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