

1

100% Placement Assurance

2

Online/ Offline Batches

3

Practical Oriented Training

4

Internship for Everyone



**FULL STACK
DEVELOPMENT WITH
PYTHON**

Education

with Different

Perspective

Course Duration and Eligibility

Duration

Regular Batch: 5-6 Months

Eligibility

Any Graduate and Post Graduate can do.

**“An investment in knowledge pays
the best interest”**



Syllabus of Full Stack Development with Python

Front-End Part

- Introduction
- Different types of Applications
- Application Architecture

HTML

- Introduction to HTML
- Basic Structure of HTML
- HTML Editors
- HTML Tags
- Paragraphs, Headings and Text
- Formatting Tags
- HTML Lists
- HTML Images
- HTML Tables
- HTML Forms
- HTML Media

CSS

- Introduction to CSS
- Types of CSS
- CSS Properties, Selectors and Values
- Applying CSS to HTML
- CSS colors
- CSS Box Model, Margins, Padding, Borders
- CSS Text & Font Formats
- CSS Advanced Topics (Effects, Animations, Shadows, Etc.,)

JAVASCRIPT

- Introduction to JavaScript
- How to Apply JavaScript
- Displaying Output in JavaScript
- Understanding JavaScript Syntax
- Variables & Datatypes
- Operators
- Math and String Manipulations
- Conditional and looping Statements
- Functions
- Validations
- Events

BOOTSTRAP

- Introduction to Bootstrap
- Bootstrap Setup
- Bootstrap Containers
- Bootstrap Grids
- Bootstrap Tables
- Bootstrap Buttons, Navbars, Alerts
- Bootstrap Carousel
- Bootstrap Forms

ANGULARJS

- Introduction to Angular
- Environment Setup
- Installing Angular CLI
- Directory Structure of Angular
- Angular Fundamentals
- Angular Building Blocks
- Angular Data Binding
- String Interpolation
- Directives and Pipes
- Forms
- Approaches (Driven & Reactive)
- Validators
- Routing

Database

- Database Handling with MySQL
- Python MySQL Database Access
- Create Database Connection
- DML and DDL Operations with Databases
- Performing Transactions
- Handling Database Errors
- Disconnecting Database
- Database Handling with MongoDB
- SQL vs NoSQL
- MongoDB
- PyMongo
- Establishing a Connection
- Accessing Database
- DML and DDL Operations

MongoDB

Oracle

MySql

Syllabus of Full Stack Development with Python

Backend Part

INTRODUCTION TO PYTHON

- What is Python and history of Python
- Unique features of Python
- Python-2 and Python-3 differences
- Install Python and Environment Setup
- First Python Program
- Python Identifiers, Keywords and Indentation
- Comments and document interlude in Python
- Command-line arguments
- Getting User Input
- Python Data Types
- What are variables?
- Python Core objects and Functions
- Number and Maths
- Assignments

CONTROL STATEMENTS

- if-else
- if-elseif-else
- while loop
- for loop
- break
- continue
- assert
- pass
- return

LIST, RANGES & TUPLES IN PYTHON

- Introduction
- Lists in Python
- More about Lists
- Understanding Iterators
- Generators, Comprehensions and Lambda Expressions
- Generators and Yield
- Next and Ranges
- Understanding and using Ranges
- More About Ranges
- Ordered Sets with tuples

PYTHON DICTIONARIES AND SETS

- Introduction to the section
- Python Dictionaries

- MORE ON DICTIONARIES
- SETS
- Python Sets Examples
- Input and Output in Python
- Reading and writing text files
- writing Text Files
- Appending to Files and Challenge
- Writing Binary Files Manually
- Using Pickle to Write Binary Files

PYTHON BUILT IN FUNCTION

- Python user defined functions
- Python packages functions
- Defining and calling FunctionThe anonymous Functions
- Loops and statement in Python
- Python Modules & Packages

PYTHON OBJECT ORIENTED

- Overview of OOP
- The self variable
- Constructor
- Types Of Variables
- Namespaces
- Creating Classes and Objects
- Inheritance
- Types of Methods
- Instance Methods
- Static Methods
- Class Methods
- Accessing attributes
- Built-In Class Attributes
- Destroying Objects
- Abstract classes and Interfaces
- Abstract Methods and Abstract class
- Interface in Python
- Abstract classes and Interfaces

EXCEPTIONS

- Errors in Python
- Compile-Time Errors
- Runtime Errors
- Logical Errors
- What is Exception?
- Handling an exceptiontry....except...elsetry-finally clause.

Syllabus of Full Stack Development with Python

- Argument of an Exception
- Python Standard Exceptions
- Raising an exceptions
- User-Defined Exceptions

PYTHON REGULAR EXPRESSIONS

- What are regular expressions?
- The match Function
- The search Function
- Matching vs searching
- Search and Replace
- Extended Regular Expressions
- Wildcard

PYTHON MULTITHREADED PROGRAMMING

- What is multithreading?
- Difference between a Process and Thread
- Concurrent Programming and GIL
- Uses of Thread
- Starting a New Thread
- The Threading Module
- Thread Synchronization
- Locks
- Semaphore
- Deadlock of Threads
- Avoiding Deadlocks
- Daemon Threads
- Using Databases in Python
- Python MySQL Database Access
- Install the MySQLdb and other Packages
- Create Database Connection
- CREATE, INSERT, READ Operation
- DML and DDL Oepration with Databases
- Web Scraping in Python

DATA SCIENCE USING PYTHON

- **Numpy**
- Introduction to numpy
- Creating arrays
- Indexing Arrays
- Array Transposition
- Universal Array Function
- Array Processing
- Array Input and Output
- Matplotlib: Data Visualization
- Python for Data Visualization

- Welcome to the Data Visualization Section
- Matplotlib

Pandas

Machine Learning Introduction

- Machine Learning Introduction
- Machine Learning Algorithms
- Linear Regression and Logistic Regression
- Decision Tree
- Naïve Bayes Classifier

GRAPHICAL USER INTERFACE

- HTML, CSS, JQuery, Bootstrap
- GUI in Python
- Button Widget
- Label Widget
- Text Widget
- Rest Api

FRAMEWORKS FOR WEB DEVELOPMENT

DJANGO

- Django overview
- Creating a project
- Apps life cycle
- Admin interface
- Creating views
- URL Mapping
- Template system
- Models
- Form details
- Testing
- Page redirection
- Sending Emails
- Deploying Django framework
- Form processing
- File uploading
- Cookie handling
- Sessions, caching and comments
- RSS,AJAX
- Sending Emails
- GitHub,Bigbucket
- Flask Framework & TkInter GUI Framework
- Overview of Flask Framework
- Installation of Flask and
- Demo Application

Flask Framework

Our Students Placed in These Companies

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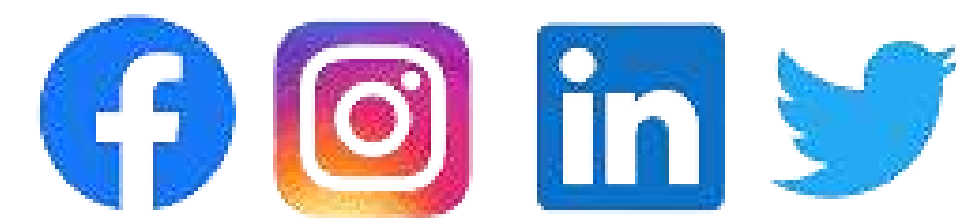
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