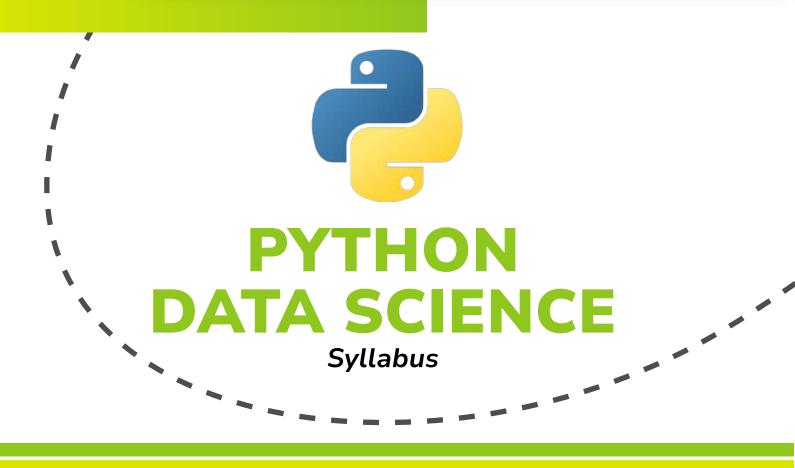




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#### **Core Python**

- Programming Basics
- Functions, Lambda Functions
- Data Structures in Python
- Object Oriented Programming
- Comprehension, Generators, Decorators
- Modules and Packages
- Exception Handling
- File Handling

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- Multithreading
- Regular Expressions
- GUI programming using Tkinter
- Database Connectivity
- Case Study

# 2 MySQL

- Database Normalization
- SQL Components and various commands
- Data definition Language
- Data Manipulation Language
- Select Statement, Groupby, having clause, Joins, Subquery
- String, Date and Number functions
- Views, Index
- PLSQL Stored Procedure, Functions, Cursor, Triggers
- Transaction
- Case Study

# Web Programming

- HTML5
- CSS3

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- JavaScript
- jQuery
- Bootstrap

### **Data Analysis**

- NumPy
- Pandas
- Plotting using Matplotlib & Seaborn

### **Data Science**

- Basics of Statistics
- NoSQL Introduction
- Data Visualization Tools(matplotlib,Seaborn,plotly)
- Machine Learning Introduction
- Machine Learning techniques (Supervised, semi supervised, unsupervised)
- Regression techniques
- (linear regression, multiple linear regression)
- Classification algorithms :
  - 1) K Nearest Neighbor
  - 2) Decision Trees & Random Forests
  - 3) Support Vector Machines
  - 4) Logistic regression
- Clustering algorithms
  1) K means, K medoid
  2) Hierarchical Clustering
- Deep Learning Basics
  - 1) RNN 2) CNN
- ML Advance Tools(Tensorflow)
- Use cases like NLP(sentiment analysis)
- Geographical Plotting
- Data Capstone Project
- PowerBI

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• Introduction to Big Data (Spark)

#### **Git & GitHub**

- Introduction
- Installation & Lifecycle
- Create & clone operation
- Perform, Review & commit changes
- Push,update,stash,move operation
- What is GitHub?
- Create a Repository
- Create a Branch
- Make a Commit
- Open a Pull Request

#### **Credit System**

- Mock Interviews (Module wise)
- Techinical quizzes
- Machine Test
- Project Presentations

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### 8 Aptitude

- Averages and ages
- Percentages
- Ratio and Proportion
- Profit and Loss
- Partnership
- Speed, distance, and time
- Trains
- Boats and Streams
- Time and Work
- Pipes and Cistern
- Permutations and Combinations
- Probability
- Simple Interest
- Compound Interest
- Numbers and Divisibility Rules
- Allegations and mixtures
- Analytical Reasoning
- Linear sitting arrangement
- Circular sitting arrangement
- Parallel sitting arrangement
- Blood Relation

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- Distance and Direction
- Coding and Decoding

# Softskills

- Introduction to Communication Skills
- Confidence Building and Public Speaking
- English Grammar
- Business English
- Advanced Communication Skills
- Group Discussion
- Resume Building and Cover Letter
- Interview Preparation
- Email Writing
- Dressing / Attire / Grooming
- Public Speaking and Presentation Skills
- Interpersonal Skills and Assertiveness
- Time Management
- Stress Management
- One to One Counseling Session for needy candidates

#### **Operating Systems**

- Operating Systems an Overview
- Types of Operating Systems
- Components of an Operating System
- An overview of File Systems
- Process and Memory Management
- User Management
- Operating System Security
- Device Drivers
- Installing an OS using Virtual Box
- Operating Systems in Cloud

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#### **Software Engineering**

- Introduction to Software Engineering
- Software Development Life Cycle
- SDLC Models
- Agile SCRUM
- Requirement Analysis
- Project Management
- Design
- Introduction to UML
- Coding / Implementation
- Testing
- DevOps



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