



Section -1

Core Python

<p>Introduction to python</p> <p>Writing Our First Python Program</p> <p>Datatypes in Python</p> <p>Operators in Python</p> <p>Input and Output</p> <p>Control Statement</p> <p>Arrays in Python</p> <p>Strings and Characters</p> <p>Functions</p> <p>Lists and Tuples</p>	<p>Dictionaries</p> <p>Introduction to OOPS</p> <p>Classes and Object</p> <p>Inheritance and Polymorphism</p> <p>Abstract Classes and Interfaces</p> <p>Exceptions</p> <p>Files in Python</p> <p>Regular Expressions in Python</p> <p>Data Structures in Python</p>	<p>Data and Time</p> <p>Threads</p> <p>Graphical User Interface</p> <p>Networking in Python</p> <p>Python's Database Connectivity</p> <p>Data Science Using Python</p> <p>100 Small and Basic Example Program</p>
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Section -2

DATA ANALYTICS MODULE

INTRODUCTION TO DATA ANALYTICS

Analyzing data with Python is an essential skill for Data Scientists and Data Analysts. This course will take you from the basics of data analysis

LIBRARIES FOR DATA ANALYTICS

Anaconda
NumPy
SciPy
Pandas
Matplotlib
Seaborn

Anaconda

Anaconda is the birthplace of Python data science. We are a movement of data scientists, data-driven enterprises, and open source communities.

NumPy

NumPy is an essential Python library for data scientists and analysts. It offers a great alternative to Python lists, as they are more compact and allow faster

SciPy

SciPy is a python library that is useful in solving many mathematical equations and algorithms. It is designed on the top of Numpy library

Pandas

In Pandas, a dataframe is a data structure used to store and manipulate tabular data. The tabular data has its columns, column names and rows - we can easily

Matplotlib

Visualize multiple forms of both 2D and 3D graphs, like line graphs, scatter plots, bar charts, and more · Create live graphs · Multiple Plots in a Graph

Seaborn

Seaborn is a library for making statistical graphics in Python. It builds on top of matplotlib and integrates closely with pandas data structures.

Data Visualization with Python and Power BI

Learn to create Power BI reports and visual charts with Python Matplotlib and Seaborn. Power bi business intelligence

Python SQL Libraries

A quick and easy way to be able to run SQL queries with Python is using SQLite. SQLite is a library that utilizes an SQL database engine.

Excel Dashboards with Python

Learn how to create interactive Excel dashboards with Python, Pandas and PyXLL. This video demonstrates how Python code can be used in Excel