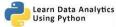


# **IPT Excel School**

## **Data Analysis with Python**

www.iptindia.com





SQL Power BI



# Section -1

### **Core Python**

Introduction to python
Writing Our First Python Program
Datatypes in Python
Operators in Python
Input and Output
Control Statement
Arrays in Python
Strings and Characters
Functions
Lists and Tuples

Dictionaries
Introduction to Oops
Classes and Object
Inheritance and Polymorphism
Abstract Classes and Interfaces
Exceptions
Files in Python
Regular Expressions in Python

Data Structures in Python

Data and Time
Threads
Graphical User Interface
Networking in Python
Python's Database Connectivity
Data Science Using Python
100 Small and Basic Example Programm

## **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

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

Anaconda

NumPy

SciPv

**Pandas** 

Seaborn

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

In Pandas, a dataframe is a data structure used to store and manipulate tabular data. The tabular data has it's columns, column

names and rows - we can easily

 $\label{thm:continuous} \textbf{Visualize multiple forms of both 2D and 3D graphs, like line graphs, scatter plots, bar charts, and more \cdot \textbf{Create live graphs} \cdot \textbf{Multiple Plots in a Graph}$ 

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



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