GEEKONIX IT HUB

Data Analytics Course

5 Month

Python

Introduction To Python

installation and Working with Python
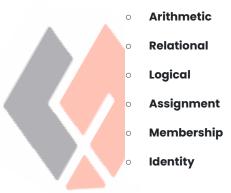
Understanding Python variables

Python basic Operators

Understanding the Python blocks.

Python Keyword and Identiers

Python Comments, Multiline Comments.

- **Python Indentation**
- **Understating the concepts of Operators**
  - **Arithmetic**
  - **Relational**
  - **Logical**
  - **Assignment**
  - **Membership**
  - **Identity**

- Basics of Python.

- Variables & Data Types.

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- Operators & Constructs.

- Modules & Functions.

- File Handling.

- **Python Data Type**

Declaring and using Numeric data types

Using string data type and string operations

Understanding Non-numeric data types

Understanding the concept of Casting and Boolean.

- Python Date Time and Calendar

Day, Month, Year, Today, Weekday

IsoWeek day

Date Time

Time, Hour, Minute, Sec, Microsec

Time Delta and UTC

StrfTime, Now

Time stamp and Date Format

Month Calendar

Itermonthdates

Lots of Example on Python Calendar

Create 12-month Calendar

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- Exception Handling.

- GUI.

- List, Tuple, Dictionary & Sets.

- Database Connectivity.

- Regular Expression .

- Python for Data Visualization

- Numpy.

- Pandas.

- **Data Analysis and Visualization using Pandas.**

- **Statistics**

Categorical Data

Numerical Data

Mean

Median

Mode

Outliers

Range

Interquartile range

Correlation

Standard Deviation

Variance

Box plot

- **Data Analysis and Visualization using NumPy and MatPlotLib**

- Matplotlib.

- Seaborn.

- Plotly.

- Ggplot.

Data Analytics Theory

- Introduction to Data Analyst.

- Data Analyst Job Prospects .

- Application of Data Analyst .

- Why Learn Data Analyst.

- Future of Data Analyst.

- Data Science vs Data Analytics.

- Data Analyst vs Business Analyst.

- Data Analyst Application.

- Data Analyst Jobs.

- Prerequisite for   Data Analyst.

- Data Analyst Components.

- Data Analyst Lifecycle.

- Data Analytics workflow.

- Data Analyst Tools .

Advance Excel

- Working with functions.

- Sorting & Filtering Data.

- Conditional Formatting.

- Data Validation.

- Pivot Table.

- Dashboard Reporting.

- Special Operations.

- Charts & Graphs.

- MIS Reporting.

MySQL & Statistics

- Data Definition Language.

- Data Manipulation Language.

- Data Control Language .

- Data Query Language .

- Normal & Position Distribution.

- Descriptive Statistics.

- Inferential Statistics.

- Probability.

Power BI

- Introduction to Power BI.

- Power BI Reports & Auto Filters.

- Report Visualization & Properties.

- Chart & Map Report Properties.

- Hierarchies & Drill Down Reports.

- Power Query & M Language.

- Power BI Development & Cloud.

- Data Modelling.

- Data Cleaning.

- Data transformation.

- Insights & Subscriptions.

- DAX Expression.