

<Hello World> !!



Data Analytics using Python

Understanding and analyzing data is one of the key skills required in the industry today. This course is completely focused on the various aspects of data analytics using Python and taken through the key libraries for data ingestion and manipulation, exploratory data analysis, model building and data visualization.

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**Start your data science
journey with us.**

Basic knowledge of Python is required to attend this course.

**A short
course in
16 hours.**



What You'll Learn

Data Analytics using Python is an intermediate level course in understanding how to play with data and perform visualizations and analytics in Python. Participants will learn to write programs in Python which will help in analysis, visualization, statistical calculations, data wrangling and manipulation. Participants who complete learning these skills will finish the course at an intermediate level of Python and will be ready to take up advanced courses in machine learning.

**Learn how you can put your
data to good use.**

About the Course

These are the key takeaways that participants will gain:

- Understand techniques to get data from different sources
- How to analyze and make sense of data from a business perspective
- Learn how to clean data in Python
- Understand the functionalities of the pandas library
- Learn how to create data models required for analysis
- Exploratory Data Analysis using Python
- How to formulate KPIs based on business cases
- Understand how to plot complex visualizations
- Learn how to extract key insights from data

It's about your goals & your future!

Course Outline

Module 1: Understanding Data

To learn how to get data from external sources into the Python environment and manipulate and analyze data. Before any data analytics project, it is very important to use statistical algorithms and methods to analyze data as part of the data analytics process.

- Python packages for data manipulation
- Importing and Exporting datasets
- Basics of analyzing the data

Module 2: Data Wrangling

To learn about how python libraries can be leveraged to deal with data inconsistencies, issues with data and making them fit for data analytics. This is where 80% of today's data scientists and engineers spend their time and it is very important to know how to do it.

- Dealing with data issues and preparation
- Data Formatting and conversions in Python
- Working with Pandas

Module 3: Exploratory Data Analysis

The objective of this module is to understand how to use appropriate statistical methods and visualizations for descriptive analytics.

- Performing descriptive statistics with Python
- Correlations, Scatter-plots and charts with Matplotlib
- Understanding data analysis with respect to various business scenarios

Module 4: Data Visualization

The objective of this module is to understand basic metric and KPIs (Key Performance Indicators) of different business cases and plotting advanced interactive visualizations for data analysis to gain insights from data.

- Understanding basic metrics and KPIs
- Visualizations using Python (Seaborn, Folium)



Join us & launch your career in data science.

It's time to upskill for the Industry 4.0

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