

Data Science with Python

COURSE OVERVIEW

The Data Science with Python course covers libraries for data analysis, visualization, web scraping, machine learning, and NLP. It includes live projects, demos, assignments, and case studies for practical experience. The course also covers PROC SQL, PROC MEANS, PROC FREQ, and advanced analytics techniques like decision trees, regression, and clustering.

WHO SHOULD ATTEND?

This course is ideal for analytics professionals looking to work with Python, software professionals aiming to switch to analytics, IT professionals interested in pursuing analytics careers, graduates seeking to build a career in analytics and data science, experienced professionals wishing to apply data science in their fields, and anyone with a genuine interest in the field of data science.

COURSE OUTCOMES

Delegates will gain the skills and knowledge to;

- Perform scientific and technical computing using SciPy package and its sub-packages such as Integrate, Optimize, Statistics, IO, and Weave.
- Perform data analysis and manipulation using data structures and tools provided in Pandas package
- Gain an in-depth understanding of supervised learning and unsupervised learning models like linear regression, logistic regression, clustering, dimensionality reduction, K-NN, and pipeline
- Use Scikit-Learn package for natural language processing
- Use the matplotlib library of Python for data visualization
- Extract useful data from websites by performing web scraping using Python
- Integrate Python with Hadoop, Spark, and MapReduce

KEY COURSE HIGHLIGHTS

At the end of the course, you will understand;

- Data analysis, visualization, web scraping, and NLP using Python.
- Hands-on experience with libraries and packages through live projects.
- Practical exposure via demonstrations, assignments, and case studies.
- Introduction to machine learning techniques: decision trees, regression, and clustering.
- Insights into statistical procedures including PROC SQL, PROC MEANS, and PROC FREQ.

All our courses are dual-certificate courses. At the end of the training, the delegates will receive two certificates.

1. A GTC end-of-course certificate
2. Continuing Professional Development (CPD) Certificate of completion with earned credits awarded