

€ TRAINING

Advanced Data Analysis



23 - 27 December 2024
London (UK)



Advanced Data Analysis

REF: G2622 DATE: 23 - 27 December 2024 Venue: London (UK) - Fee: 5850 Euro

Introduction:

The program is designed to provide participants with comprehensive knowledge and practical skills in advanced data analysis methods. This program covers a wide range of topics, from data preprocessing and exploration to sophisticated modeling techniques and interpretation of results. It is ideal for professionals who wish to deepen their understanding of data analysis and enhance their ability to derive meaningful insights from complex datasets.

Program Objectives:

At the end of this program, participants will be able to:

- Equip participants with advanced data analysis techniques and methodologies.
- Enhance participants' ability to handle and preprocess large datasets.
- Develop participants' skills in applying statistical models and machine learning algorithms.
- Enable participants to interpret and communicate data analysis results effectively.
- Provide hands-on experience with popular data analysis tools and software.

Target Audience:

- Data Analysts and Scientists.
- Business Analysts.
- Research Scientists.
- Statisticians.
- Professionals in fields requiring data analysis expertise.

Outlines:

Unit 1

Data Preprocessing and Exploration:

- Data Cleaning and Preparation.
- Data Transformation.

- Exploratory Data Analysis EDA.
- Data Integration.

Unit 2

Advanced Statistical Techniques:

- Hypothesis Testing and Statistical Inference.
- Regression Analysis.
- Time Series Analysis.
- Multivariate Analysis.

Unit 3

Machine Learning and Predictive Modeling:

- Supervised Learning Algorithms.
- Unsupervised Learning Algorithms.
- Model Evaluation and Validation.
- Ensemble Methods.

Unit 4

Advanced Data Visualization:

- Data Visualization Principles.
- Interactive Visualizations.
- Geospatial Data Visualization.
- Custom Visualizations.

Unit 5

Practical Applications and Case Studies:

- Real-World Case Studies.
- Project Work.



- Ethical Considerations in Data Analysis.
- Future Trends in Data Analysis.