

Department of Statistics and Business Analytics

Statistical Consulting Unit

Workshops/Training courses

Title: Data Analysis and Visualization

Statistical Software: Python/R

Requirements: None

Instructor: Dr. Hanae Ouahhabi

Target Group: Any participant junior (3rd year undergraduate) and above (including Master's and Doctorate levels).

Date: 10-16 February 2025.

Period: 2 days, 4 hours/session, 8 hours total.

Platform: Face-to-face Meeting, with interactive session; participants must bring laptops.

Inclusive of Scientific Materials: PowerPoint Slide Presentation and E-Certificate.

Description:

This comprehensive workshop provides participants with a foundation in data analysis, visualization, and an introduction to machine learning concepts. Designed for beginners and intermediate practitioners, the workshop covers the data analysis process, from importing data to gaining insights and creating simple predictive models.

Topics Covered:

Day 1:

- Welcome and introductions.
- Overview of data analysis process.
- Types of data and their characteristics.
- Importing data from various sources.
- Identifying and handling missing data.
- Data transformation and feature engineering.
- Descriptive statistics.

- **Data distribution and summary metrics.**
- **Correlation analysis.**
- **Overview of common chart types and their uses.**
- **Interpreting statistical results.**
- **Interactive hands-on practice session.**

Day 2:

- **Introduction to machine learning concepts.**
- **Supervised vs. unsupervised learning.**
- **Simple classification and regression models.**
- **Case Studies.**
- **Interactive hands-on practice session.**
- **Assessment.**

Workshop Fee: 1000AED

Contact US: statconsult@uaeu.ac.ae

*20% off for UAEU students