



*Training Course:
Introduction to Data*

*9 - 13 August 2026
Cairo (Egypt)*

Training Course: Introduction to Data

Training Course code: IT234613 From: 9 - 13 August 2026 Venue: Cairo (Egypt) - Training Course Fees: 4100 € Euro

Introduction

This course introduces Data Analysis using Python, MySQL, NumPy, and Pandas. It provides a practical foundation for understanding how to collect, clean, explore, analyze, and interpret data. Learners will go through the full data analysis workflow, from posing a question to communicating insights and making data-driven decisions using real datasets and hands-on exercises.

Course Objectives

- Learn how to define and structure data analysis questions
- Understand how to clean, prepare, and wrangle raw data into usable formats
- Develop skills to explore datasets and identify meaningful patterns
- Perform statistical analysis to support insights and predictions
- Build visual understanding of data using charts and plots
- Communicate findings effectively for business or technical audiences
- Gain hands-on experience with Python, NumPy, Pandas, and MySQL for data analysis tasks

Target Audience

- Beginners and professionals interested in starting a career in data analysis
- Data analysts who want to strengthen their skills in Python-based data analysis tools
- Students and graduates in computer science, business, or related fields
- Business professionals who need to analyze and interpret data for decision-making
- Developers and engineers who want to transition into data analysis roles
- Anyone interested in learning how to work with data using Python, NumPy, Pandas, and MySQL

Course Outlines

Day 1: Problems Solved by Data Analysts

- Questions about Student Data Solution
- Investigating the Data
- Problems in the Data
- Missing Engagement Records

Day 2: Debugging Data Analysis Code

- Making Histograms

- Predicting Based on Many Features
- Improving Plots and Sharing Findings

Day 3: NumPy

- One-Dimensional Data in NumPy
- Two-Dimensional NumPy Arrays
- NumPy Arrays
- Vectorized Operations
- Multiplying by a Scalar
- Standardizing Data

Day 4: Pandas

- Pandas Series
- Filling Missing Values
- Plotting in Pandas

Day 5: Statistics

- Mean, Median and Mode
- Standard Variation, Error mean
- Calculating Correlation

Registration form on the Training Course: Introduction to Data

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