

# Introduction to Machine Learning

**PRICE:** \$1,950 / participant**DURATION:** 2 days**FOR:** Developers / BI Analysts / Consultants / Statisticians / Marketing Specialists / IT Professionals

## DESCRIPTION

This training, designed by Data Science and Artificial Intelligence professionals, guides you step by step into the world of Machine Learning. It represents an initiation into the fundamental techniques and the basic concepts of analytical reasoning (statistical, descriptive and predictive).

On one hand, the participants will be exposed to the fundamentals of machine learning approaches (supervised and unsupervised) and to the logical development of algorithms. On the other hand, the real-world application of these concepts using the most advanced tools and programming languages used in the field including R and Python will be covered.

The demystification of Artificial Intelligence, Machine Learning, the real-world case practice and the understanding of different learning approaches will allow developers, consultants, and analysts to acquire a clear vision, initial and practical knowledge for implementing an intelligent machine learning solution.

## LEARNING OBJECTIVE

With this course, the participants will be able to:

- Understand the motivations and the fundamentals of Machine Learning.
- Distinguish between supervised and unsupervised learning approaches.
- Set up the bases of an intelligent machine learning solution.
- Describe and execute a learning process in a real-world case.

## PREREQUISITIES

The participant must have:

- Basic knowledge of programming
- Basic knowledge of mathematics/statistics
- Basic knowledge of R/Python programming would be a plus

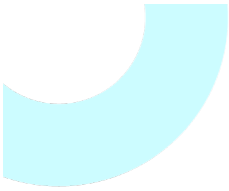
## PRIOR TO STARTING THE COURSE

A participant must have:

- A laptop with a decent configuration: 8Go of RAM, 500Go of disk space, Intel I3 or higher is a minimum requirement
- Installed software required for training (an installation manual will be provided prior to training)

## COURSE OUTLINE

- Definitions of Machine Learning and its place in the world of AI
- Implementing an intelligent solution: Approach and Challenges

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- Presentation of different learning approaches: Concepts and Motivations
  - Tools, Languages, and Libraries
  - The practice of supervised approaches
    - Algorithms
    - Evaluation and measures
    - Algorithm application according to a real-world case study
  - The practice of unsupervised approaches
    - Algorithms
    - Evaluation and measures
    - Algorithm application according to a real-world case study