AIBT102 - Data integration and Exploration

From the Advanced Master AIBT
(Artificial Intelligence & Business Transformation)

Key elements

Period: **Late October**

Estimated duration: **35 hours**

For whom:
recent graduates, jobseekers and experienced employees

Location:
ISAE-SUPAERO, Toulouse

Language: **English**

Highlights

- Data warehousing and visualisation
- Data quality management
- Practical courses

Data is ubiquitous in modern economy. From flight test data to financial reports, from web-based content to scientific computation results, sources of data are heterogeneous, flow at different speeds and vary in volume. The first step in an efficient data-driven business model is the definition of a strong data integration framework, able to cover all the useful data sources, to manage them over time, to report on data quality and to efficiently explore and visualize their contents.

Learning objectives

After completing this course, participants will be able to:

- Explain the key components of ETL-based data warehousing;
- Set up indicators on data quality and management;
- Perform a simple data visualization task.

Prerequisites

- General knowledge on computer science.
- Work experience in a professional environment.

Information and registration

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Course Content

Data Warehousing:

- History and recent evolutions
- Extract-Transform-Load process
- Architecture
- Key functions
- Layers

Data quality:

- Indicators
- improvement
- assurance
- control

Data visualisation:

- visual perception
- effective graphical display
- tools

Teaching methods

Teaching methods	Yes
Lectures / tutorial	X
Collaborative learning	
Flipped classroom	
Blended learning (online and face to face)	
Learning by doing	X
Project-based	
Simulation	
Case study	X

Assessment

- Case study (50 %)
- Hands-on evaluation on a computer (50 %)