

AIBT2 - AI oriented business model design

From the Advanced Master AIBT
(Artificial Intelligence and Business Transformation)
In partnership with TBS Education



Highlights

- Major success stories of business & AI
- Legal and business perspectives
- Principles of data economics & strategy
- Changes for data value creation

Sources of data are heterogeneous, flow at different speeds and vary in volume. Defining a strong data integration framework is key to report on data quality and to efficiently explore and visualize their contents. Big Data can be characterized by the 3 Vs of Volume, Velocity and Variety and often requires dedicated computing solutions, which will be explored.

Prerequisites

- Basics on computer science.
- Work experience of minimum 3 years.

Key elements

Dates:
4 October 2021 - 11 March 2022

Duration: **84 hours, 12 days**

For whom:
**recent graduates, jobseekers
and experienced employees**

Location:
ISAE-SUPAERO, Toulouse

Course fees: **5 000 €**

Language: **English**

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;
- Implement the distribution of simple operations via the Map/Reduce principle in Spark;
- Connect on a cloud computing engine (e.g. Google Cloud Platform) and launch a simple task;
- Deploy a Docker container.

Practical information and registration

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Course Content

AIBT101 - Introduction to modern AI (28h):

- AI Basics;
- Landscape and flagship algorithms on Supervised;
- Unsupervised and Reinforcement Learning;
- Understanding the relationship between problem framing;
- Types of data available;
- Actual business outcomes and the applicable algorithms;
- Business intelligence and business models;
- Major success stories of Business and AI;
- Google's Self-driving car; IBM Watson's Medical diagnosis;
- DeepMind's Alpha Go beating the World champion of Go;
- Airbus building the Skywise platform;
- AI to deliver prescription for manufacturing;

AIBT104 - The business of data (28h):

- AI in the world, a geostrategic point of view through data and cloud;
- Legal environment (RGPD and beyond);
- New economy and the sharing economy;
- Opendata;

AIBT107 - Data value creation (28h):

- AI and the marginal value of data, of algorithms;
- Changing the cost of prediction;
- Machine learning, market structure and competition;
- The impact of artificial intelligence on innovation.



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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

Written examination (100%)