

# AIBT101 – Introduction to modern AI

From the Advanced Master AIBT

(Artificial Intelligence and Business Transformation)



Artificial intelligence is creating new jobs and new ways of working. This is crucial to acquire some basic knowledge about AI and big data in order to lead one's firm and teams through change and transformation challenges.

## Key elements

*Dates:*

**14 - 17 October 2019**

*Duration:*

**28 hours, 4 days**

*For whom:*

**recent graduates, jobseekers  
and experienced employees**

*Location:*

**ISAE-SUPAERO, Toulouse**

*Course fees:* **2300 €**

*Language:* **English**

## Skills learned

After completing this course, participants will be able to:

- Understand how a problem needs to be framed to be tackled by Data Science and AI;
- Be able to answer most basic questions about AI;
- Be acquainted with flagship algorithms and typical business-oriented use-cases;
- Understand the major technology trends driving business-oriented AI;
- Understand the different phases leading to profitable uses of AI (from solid exploratory data analysis practice to state of the art engineering environment).

## Prerequisites

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

## Learning objectives

*This module introduces the participants to business-oriented modern AI. It gives the basics to start taming the complexity of Data Science and Machine Learning with a special focus on Big Data and Deep Learning.*

## Practical information and registration

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## **Programme**

### *AI Basics:*

- History and basic principles of AI and more specifically Machine Learning

### *Machine Learning:*

- Landscape and flagship algorithms on Supervised
- Unsupervised and Reinforcement Learning

### *Fueling AI:*

- Understanding the relationship between problem framing
- Types of data available
- Actual business outcomes and the applicable algorithms

### *Business intelligence and business models:*

- How to deliver insights to end users

### *Major success stories of Business and AI:*

- Targeted publicity and recommendations (such as Netflix's)
- 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
- How AI can deliver prescription for manufacturing, etc.