AIBT101 - Introduction to modern AI

From the Advanced Master AIBT

(Artificial Intelligence & Business Transformation)

Key elements

Period: **Late September to Early October**

Estimated duration: **30 hours**

For whom:
recent graduates, jobseekers and experienced employees

Location:
ISAE-SUPAERO, Toulouse

Language: **English**

Highlights

- AI basics
- Major success stories of business & AI
- World leading industrial expert

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.

Learning objectives

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.

Information and registration

info.exed@isae-supaero.fr

AIBT101 - Introduction to modern AI

From the Advanced Master AIBT

(Artificial Intelligence & Business Transformation)

Course Content

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

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	X
Case study	X

Assessment

- Case study (100 %)