

**IA102**

ARTIFICIAL INTELLIGENCE

# Introduction to Machine Learning and Deep Learning

## Objectives

To provide the knowledge and skills required to understand and support decision making related to Machine Learning and Deep Learning projects.

## Targeted audience

Account or project managers, directors, stakeholders, IT managers, analysts, CFOs and accountants.

## Prerequisite

None.

## Content

- Introduction to Artificial Intelligence and its role in modern IT
- Fundamentals: neural networks, examples of convolutional and recurrent networks
- Machine learning: the principles of learning and key concepts—data, learning concepts, predictions on new data
- Data to rely on: internal company data, data acquired externally
- Supervised, unsupervised, adaptive and reinforcement training
- Linear models of learning: regression, logistic, predictive (Bayesian, decision trees...)
- Tools for implementation: API, languages, local and Cloud platforms
- Examples of how machine learning is used: decisions, image recognition, natural language processing
- The special case of deep learning, algorithms and API, applications
- Implementing a learning project or deep learning project, required skills, industries

440 René-Lévesque West Blvd, 5th Floor, Montreal (Quebec) H2Z 1V7

Phone: 514 380 0380 | toll free: 514 380 0380 (Mt) / 418 681 0865 (Qc) / 1 877 380 8228

<http://www.technologia.com/en/information-technology/artificial-intelligence/introduction-to-machine-learning-and-deep-learning/>

Contact Us: [formation@technologia.ca](mailto:formation@technologia.ca)

© 2019 All rights reserved Groupe informatique Technologia inc.

DURATION  
**2 DAYS**

REGULAR FEE  
**1 000 \$**

PREFERENTIAL  
FEE  
**900 \$**

## Select the training date\*

Montreal	November 11 to November 12 2019
Quebec City	January 13 to January 14 2020
Montreal	May 19 to May 20 2020