

Formation - Machine Learning Concepts



MLBASIC-EN-D



Distanciel



3 jours

Machine learning is a subfield of Artificial Intelligence that acts as a bridge between Data Science and Artificial Intelligence. Its objective is to understand the structure of data and to build data-driven models for further automate decision-making processes, in most technical domains including the O&G industry

Niveau

Découverte

Public

The course is intended for O&G professionals interested in machine learning and its applications to O&G

Objectifs

Attendees will be able to implement the following skills:

- describe the different types of machine learning, algorithms, techniques and models
- identify the main programming languages used in machine learning
- examine some machine learning applications in the O&G industry

Pédagogie & ressources techniques

Interactive lectures and exercises

Évaluation des acquis

- Trainees are assessed throughout the training through practical application phases and interactions with the trainer
- A final on-the-spot evaluation may also be carried out at the end of the course and/or at the end of each module using tests designed to verify the learners' understanding and assimilation of the knowledge linked to the training objectives

Prérequis

No prerequisites are necessary to follow this course

Responsable

IFP Training instructors, with expertise in the field and trained in modern teaching methods adapted to the specific needs of learners from the professional world

Programme

INTRODUCTION TO MACHINE LEARNING

MACHINE LEARNING METHODS

Supervised machine learning.
Unsupervised machine learning.

COMMON ALGORITHMIC APPROACHES

Decision tree, K nearest neighbors, deep learning.

PROGRAMMING LANGUAGES

Python, Java, R, C++.

EVALUATING MACHINE LEARNING MODELS

Quantify errors; testing and validation.

EXAMPLES OF MACHINE LEARNING APPLICATIONS IN O&G

IFP Training est référencé au DataDock. Rapprochez-vous de votre OPCO pour connaître les possibilités de financement de cette formation.

Pour vérifier l'accessibilité de cette formation à une personne en situation de handicap, contactez notre référent à l'adresse suivante : referent.handicap@ifptraining.com