Training - Introduction to Data Science and Analytics for O&G Professionals

DABASIC-EN-D | **Distance only** | **1 day**

This course aims at introducing data science and analytics, which aims at extracting knowledge from raw data to build data-driven models. It will introduce the workflow involving data exploration, preprocessing and machine learning modeling

Level

Awareness

Public

O&G professionals getting involves in Data Analytics and Machine Learning projects

Objectives

Attendees will be able to implement the following skills:

- Understand the data science and analytics objectives (data science, analytics and machine learning)

Pedagogical & technical resources

- Participative lecturing
- Case studies
- Team work/mini-project

Assessment of achievements

- 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

Prerequisites

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

Program

INTRODUCTION TO DATA SCIENCE & ANALYTICS

Concept of data science.
Data analytics.

DIFFERENT LEVELS FOR DATA ANALYTICS

Descriptive.
Diagnostic.

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Predictive.
Prescriptive.
Cognitive (AI).

DATA ANALYTICS PRINCIPLES

Data statistics (univariate, bivariate, distributions).
Data ranking (correlation matrix, principal component analysis, fuzzy logic).

DATA ANALYTICS WORKFLOW

Exploratory data analysis.
Data preprocessing.
Machine learning models.

SOME O&G APPLICATIONS

To French entities : IFP Training is referenced to DataDock ; you may contact your OPCO about potential funding.
Please contact our disabled persons referent to check the accessibility of this training program : referent.handicap@ifptraining.com

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