

# Machine learning project

## Facies classification

This project illustrates how to predict some facies from well log data. The dataset contain many wells. Type of file is las files. They classification is based on three flags (Unknown, sand, coal, and carbonate). The different steps of this project are:

Load, preprocess the data to have a clean dataframe

Explore the data set

Condition the dataset

Perform classification using NaiveBayes and Neural Network

control the quality of the classifier

## DNN regression with a dense Network

This project is based on a simple regression with a Dense Neural Network (DNN). The aim of this project is focus on these two points:

- Predicts housing prices from a set of house features.
- Understanding the principle and the architecture of a regression with a dense neural network

The **Dataset** consists of price of houses in various places. The different steps for this project are:

- Retrieve data
- Prepare Data
- Build a model
- Train the model
- Evaluate the result