Exercise 1

DNN on Tabular Data

Weka (Descarga WEKA:

[**https://waikato.github.io/weka-wiki/downloading_weka/**](https://waikato.github.io/weka-wiki/downloading_weka/)**)**

1. Run the examples for classification () and regression () presented in class (**Classification and Regression with DNN.ipynb**) where a comparison between ML and DL is done over tabular data, make some screen shots of the obtained results and answer the following questions:

   - Which is the best model (hyperparameters) and the resulting metrics?
   - Why do you think Neural Networks under performed ML models?
   - What did you do to improve performance?
   - What is Cross Validation?

2. Corra el modelo de regresión solo para casas con precios por debajo de 3 millones de dólares, mejoran las métricas? Encuentre una manera de medir la mejora, por ejemplo, grafique el accuracy vs diferentes número de épocas, batch size, dropout, y L2, y diferentes arquitecturas. Cuál es el mejor modelo?