

## HW2 Frederic Boileau

The code for the homework is in the folder hw2Py and can be imported as a module or run as a script. Detailed explanations of its structure and its classes are included in the latex-generated pdf which also contains the theoretical results.

For the script to run properly the module must be in a repository which also contains the folder hwk2data which contains the text files with the same names as when given by Pr. Lacoste.

If run as a script it will plot the test data as a scatter plot, one for each dataset (i.e. A, B and C) with the four decision boundaries included.

There is a class for each classification model/process which all share a common interface: `estimateParameters`, `computeBoundary` and `computeMisclassificationRate`.

All those classes and methods use the class `Data` which fetches and parses the data when initialized with the letter of the corresponding data set and contains two panda structures, one for the training set and one for the testing set, named `train` and `test` respectively.