Instituto Superior Técnico

Departamento de Engenharia Electrotécnica e de Computadores

Machine Learning

6th Lab Assignment

Shift _____   Group number _____

Number _____   Name _____

Number _____   Name _____

Optimization and Generalization

In this lab you will be asked to evaluate different classifiers on two datasets with real data and try to obtain, for each dataset, the best possible performance.

For each dataset you must try at least two different classifiers and use at least two distinct performance measures (Accuracy, Sensitivity, Specificity, F-Measure, ROC curve, AUC, etc…).

The datasets are already split into training and test data. Training and choice of classifier hyperparameters should be performed using only training data and performance evaluation should use only test data.

Your report should describe the experiments and present and analyze the results that were obtained. The code should also be provided.