

## Algorithms

Each folder contains an algorithm:

1. OvA -> One vs All code using RLS
2. Tree Bagger -> Random Forest using MATLAB TreeBagger
3. Tree Bagging -> Code for Tree Bagging
4. Random Forest
5. OOB\_TreeBagger -> OOB error using MATLAB TreeBagger
6. OOB\_Random\_Forest -> Code for OOB error

## Dataset

I used the wine dataset and an indoor localization through wifi dataset that you can find here:

<https://archive.ics.uci.edu/ml/datasets/Wireless+Indoor+Localization>

Since I modified both the dataset to import them quickly, I add also the .mat files.

## Execute

To execute the codes you have to import the dataset and call it 'S' and then you have to change the size of the splits for training. For OvA it is necessary to change the classes for the 'for' cycle (1:4 for wifi dataset, 3:9 for wine dataset). You can also choose the number of trees and the number of iterations.