

Homework 3

- Implement the Adaboost algorithm explained in lecture 5

- Use the homework framework provided
- Use the sample file given
 - samples.txt
 - the sample file includes a training sample in each row

$$\begin{matrix} f_1^{(1)} & f_2^{(1)} & \dots & f_{10}^{(1)} & c_1 \\ \vdots & & & & \end{matrix}$$

$$\begin{matrix} f_1^{(N)} & f_2^{(N)} & \dots & f_{10}^{(N)} & c_N \end{matrix}$$

where $f_j^{(i)}$ represents the j^{th} feature of sample i , and $c_i (\in \{-1, +1\})$ is the label of sample i

- Show the trained classifier
 - Error of the strong classifier trained
 - Number of weak classifiers
 - Confusion matrix