

Activity 2

Classification with SVM, BP and MLR

- **Git Repository**

<https://github.com/YoussefEzz/Classification-SVM-BP-and-LR>

- **Part 1 : Selecting and analyzing the datasets**

Since we do not want to give a priori more importance to some of the input variables w.r.t. the others, we should scale all of them to the same range of variation.

Plot of Ring datasets A2-ring-merged.txt and A2-ring-separable.txt in Ring_Datasets.ipynb

since the two input variables lay in the same range $[-1.0, 1.0]$, No pre-processing is needed. Both Training sets have the same two input feature values but with different output values(class) such that the plot of A2-ring-merged shows that the class of points are emerged but the plot of A2-ring-separable shows that the class of points are separable

