## Programming Assignment 2 Support Vector Machines (SVMs)

## Google Colab

https://colab.research.google.com/drive/1mFvVs06hHbBuUPDjyNp3H4zmjCaPGIp?usp=sharing

## Github,

https://github.com/olaomari/svm/tree/main/SVM

Our goal must be to find the best C value for the linear classifier : I made a loop from 1-100 and C values was incrassating by the time but  $\,$  f1 score remain 71.85185185185186  $\,$ %  $\,$  all the time .

 I made a loop from 1-100 and C  $\,$  gamma values was incrassating by the time but  $\,$  f1 score remain 71.85185185185186  $\,$  %  $\,$  all the time .

```
21
        22
        gamma= 2.7
        The f1 score : 71.85185185185186 %
        gamma= 2.80000000000000003
        The f1 score: 71.85185185185186 %
        gamma= 2.90000000000000004
        The f1 score: 71.85185185185186 %
        gamma= 3.0
        The f1 score : 71.85185185185186 %
        gamma= 3.1
        The f1 score : 71.85185185185186 %
        gamma= 3.2
        The f1 score : 71.85185185185186 %
        gamma= 3.30000000000000003
In [8]. 1 #Train Confusion matrix
```