CS4092D Machine Learning Lab
Module 7 Exercise
Support Vector Machines
S4 MCA: Winter 2022-23

Date: 06-Apr-2023

Q. Implement the **Linearly Separable version of SVM from scratch (without using any built-in svm functions from the Python libraries) using the Iris dataset**.

Dataset Description: We have shared the *'IRIS.csv'* file which is to be used for implementing this exercise. Refer to *iris.NAMES* file for thorough feature descriptions.

Feature details in brief:

The dataset contains a set of 150 records with 5 features - Petal Length, Petal Width, Sepal Length, Sepal width, and Class(Species):

1. sepal length in cm

2. sepal width in cm

3. petal length in cm

4. petal width in cm

5. class:

       -- Iris Setosa

       -- Iris Versicolour

       -- Iris Virginica

Compare your model's performance against the output of LinearSVC() function defined in sklearn.svm.