* Dataset

The dataset used was the CIFAR-10. The dataset can be accessed through the link given below:

<https://www.cs.toronto.edu/~kriz/cifar.html>

* Feature Extraction
* Feature\_HOG.py : Extracts HOG feature descriptors for the CIFAR dataset
* Feature\_intensityvalues.py : Extraction grayscale intensity values for the CIFAR dataset
* Main Code
* LapRLS
* Singleclass\_Singleview\_permutations\_S.py : Implements a supervised classifier for binary classification single-view case.
* Singleclass\_Singleview\_permutations\_SS.py : Implements a Semi-supervised classifier for binary classification single-view case.
* Singleclass\_Multiview\_permutations\_S.py : Implements a supervised classifier for binary classification multi-view case.
* Singleclass\_Multiview\_permutations\_SS.py : Implements a Semi-supervised classifier for binary classification multi-view case.
* Multiclass\_Singleview\_permutations\_S.py : Implements a supervised classifier for multi class and single-view case.
* Multiclass\_Singleview\_permutations\_SS.py : Implements a Semi-supervised classifier for multi class and single-view case.
* Multiclass\_Multiview\_permutations\_S.py : Implements a supervised classifier for multi class and Multi-view case.
* Multiclass\_Multiview\_permutations\_SS.py : Implements a Semi-supervised classifier for multi class and Multi-view case.

The codes were run on Anaconda (Spyder) – Python 2.7.

* LapSVM
* Laplacian Support Vector Machine Single-view single class – LAPSVM\_SV\_SC\_SS.py
* Laplacian Support Vector Machine Single-view multi-class – LAPSVM\_SV\_MC\_SS.py
* Laplacian Support Vector Machine Multi-view single class - LAPSVM\_MV\_SC\_SS.py
* Laplacian Support Vector Machine Multi-view multi-class – LAPSVM\_MV\_MC\_SS.py

For supervised learning set the gamma\_I (gamma\_I1, gamma\_I2) parameters in all the scripts as zero

Python version 3.6 is used for implementing and running all the scripts.

Install CVXOPT V 1.1.9 library that is compatible with the system and python version used for running the scripts.