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Question 1: Support Vector Machine using SMO ALgorithm
ICM2015502_Question_SVM

Data Set:

1. MNIST Data set

The Assignment is on Jupyter Notebook
FileName for Face recognition using PCA**:**
ICM2015502_Question_SVM

Open the file which (is public) add this to Notebook, Data set Name:"mnist_train.csv" "mnist_test.csv" and run the code, for question SVM using SMO algorithm
This will predict the accuracy of our model for face recognition using PCA, LDA

1. import numpy as np # linear algebra
2. import pandas as pd # data processing, CSV file I/O (e.g. pd.read_csv)
3. from sklearn.model_selection import train_test_split as tts
4. from sklearn.metrics import confusion_matrix
5. import seaborn as sns
6. import matplotlib.pyplot as plt
7. import os
8. import random as rnd

We have implemented using

1. Linear Kernel Type
    a. Accuracy: 95.46%

2. Gaussian Kernel Type
    a. Accuracy: 95.08%

3. Quadratic Kernel Type
    a. Accuracy: 46.97%