

Assignment-9

(SVM Classifier)

Q1:SVM Classifier

Implement SVM Classifier on the given dataset using in-built function.

Index	Weight	Size	Class
0	69	4.39	orange
1	69	4.21	orange
2	65	4.09	orange
3	72	5.85	apple
4	67	4.7	orange
5	73	5.68	apple
6	70	5.56	apple
7	75	5.11	apple
8	74	5.36	apple
9	65	4.27	orange
10	73	5.79	apple
11	70	5.47	apple
12	74	5.53	apple
13	68	4.47	orange
14	74	5.22	apple

Q2.Performance Evaluation of the Classifier:

Evaluate the performance of the classifier using metrics library based on the parameters like confusion matrix, accuracy, precision, recall, F-1 Score, TPR, TNR, FPR and FNR.