

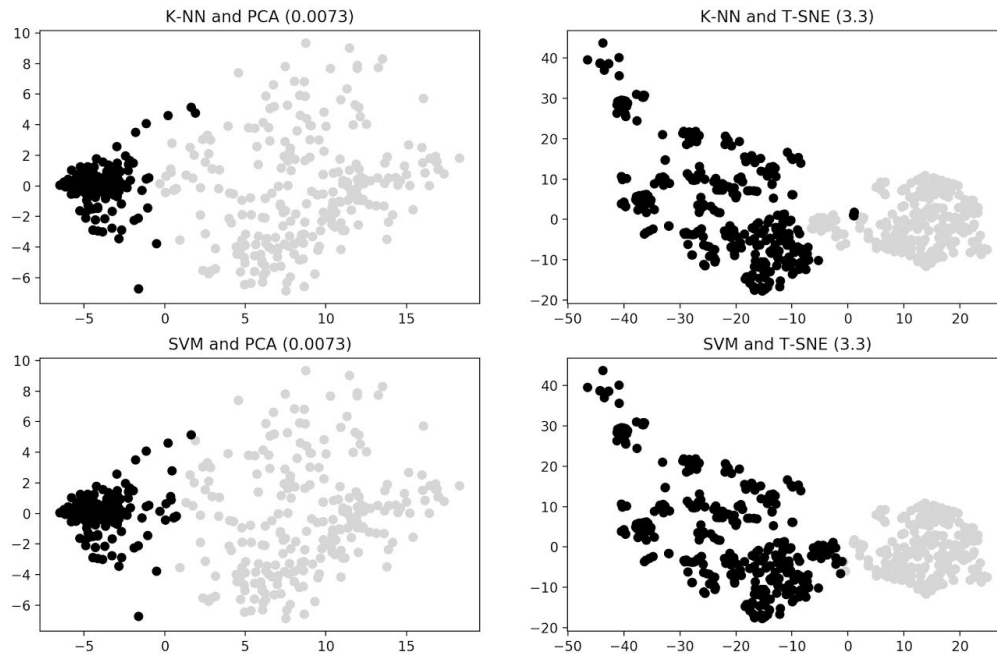
Looking at the chart from step 2, dimension reduction algorithm works best?

Why?

b. What was the accuracy of each algorithm?

c. Which classifier with which form of dimension reduction worked the best? Why?

T-SNE worked better because it had a slightly higher average accuracy than PCA for the 4 graphs.



The accuracies are as follows:

K-NN and PCA accuracy score is: 0.97364568082

K-NN and T-SNE accuracy score is: 0.980966325037

SVM and PCA accuracy score is: 0.966325036603

SVM and T-SNE accuracy score is: 0.959004392387

The K-NN with T-SNE worked the best because it had the highest accuracy score. K-NN is better suited for clusters of close bunches and somewhat normal cluster shapes, which was what was produced with T-SNE dimension reduction technique.