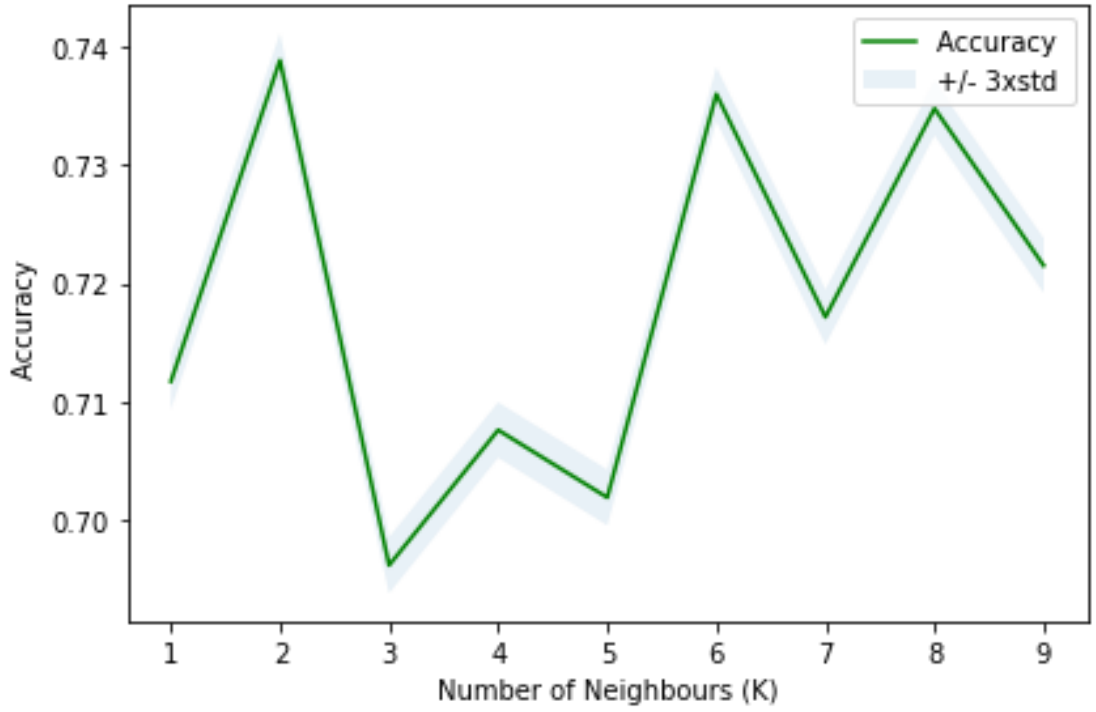
4 Results Section

Evaluation for KNN

Accuracy evaluation for KNN
In multilabel classification, accuracy classification score is a function that computes subset accuracy.
This function is equal to the jaccard_similarity_score function.
Essentially, it calculates how closely the actual labels and predicted labels are matched in the test set.

```
print("Train set Accuracy: ", metrics.accuracy_score(y_train,
neigh.predict(X_train)))
print("Test set Accuracy: ", metrics.accuracy_score(y_test, yhat))
```

Train set Accuracy: 0.7127332985627423
Test set Accuracy: 0.707589521495722




```
print( "The best accuracy was with", mean_acc.max(), "with k=",
mean_acc.argmax()+1)
```

The best accuracy was with 0.7388560261962607 with k= 2

Evaluation for Decision Tree

print("DecisionTrees's Accuracy: ", metrics.accuracy_score(y_dtree_testset, predTree))

DecisionTrees's Accuracy: 0.7446216682511179

So Accuracy for Decision Tree is at 74%

Accuracy classification score computes subset accuracy:
the set of labels predicted for a sample must exactly match the corresponding set of labels in y_true.
In multilabel classification, the function returns the subset accuracy.
If the entire set of predicted labels for a sample strictly match with the true set of labels,
then the subset accuracy is 1.0; otherwise it is 0.0.

Fig. for decision tree available when prerequisite python libraries installed.