**Instructions**

To train KNN weights, run KNN.java

* **File input: use the train data files and similarity matrix files provided in the folder, because the train data files here are shuffled and the similarity matrix file is in .txt format**
* **Command line arguments: train\_data similarity\_matrix k fold**

First argument is the location of train data

Second argument is the location of similarity matrix

Third argument is the number k in KNN

Fourth argument is the number of folds in cross validation

e.g.

/Users/yili/Documents/workspace/KNearestNeighbor/trainProdIntro.binary.arff /Users/yili/Documents/workspace/KNearestNeighbor/similarityMatrixPartB.txt 3 10

To test KNN against test data, run KNNTest.java

* **File input: use the train data files and similarity matrix files provided in the folder, because the train data files here are shuffled and the similarity matrix file is in .txt format**
* **Command line argumets: train\_data test\_data similarity\_matrix k**

First argument is the location of train data

Second argument is the location of test data

Third argument is the location of similarity matrix

Fourth argument is the number k in KNN

e.g.

/Users/yili/Documents/workspace/KNearestNeighbor/trainProdIntro.binary.arff /Users/yili/Documents/workspace/KNearestNeighbor/testProdIntro.binary.arff /Users/yili/Documents/workspace/KNearestNeighbor/similarityMatrixPartB.txt 5