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**Subject: Machine Learning CSC 736**

**Project 1**

**KNN Classifier**

Run the file knn\_classify.py with 3 input arguments <training\_file> <test\_file> <k>

Run the below lines inthe command lines to get the code executed for k=1

* runfile('C:\\Users\\venna\\OneDrive\\Desktop\\Machine Learning\\nearest neighbors\\knn\_classify.py', args=' pendigits\_training.txt pendigits\_test.txt 1')

and the same for k = 3 and k=5

Classification Accuracy for the code with different k values

K = 1

Output: classification accuracy=0.9731

K = 3

Output: classification accuracy=0.9731

K = 5

Output: classification accuracy=0.9415