**How to run the code:**

To run Naïve Bayes algorithm without enhanced feature extraction and find the optimal smoothing parameter on digit:

**python dataClassifier.py -c naiveBayes --autotune**

To run Naïve Bayes algorithm without enhanced feature extraction and find the optimal smoothing parameter on digit:

**python dataClassifier.py -c naiveBayes -k num**

Where num is the smoothing parameter you use

To run perceptron without enhanced feature extraction on digit:

**python dataClassifier.py -c perceptron**

To run perceptron with a particular iteration time:

**python dataClassifier.py -c perceptron -i num**

Where num is the iteration times

To choose the classifier you with to use, add: **-c + perceptron\ naiveBayes**

To run a specific number of training samples: add**: -t + training size**

To run classifier with feature enhance, add: **-f**

To change the testing sample size, add: **-s + testing size**