INSTRUCTIONS TO COMPILE AND RUN THE CODE

- 1. Implemented the assignment in Java. Need Oracle/Sun JDK setup on the target machine to compile and run the code. (Used JDK 1.7.0_45 during development)
- 2. Extract all java files into some location.
- 3. Compile instruction through command prompt: 'javac *.java'
- 4. Run instruction through command prompt:
 - a. java TextClassification <full path to data folder> {true/false}
 - b. Ex: java TextClassification E:\txt_sentoken true
- 5. The 2nd argument {true/false} is optional. It can be used to set whether to ignore/not ignore stop words. If chosen to ignore stop words then the Stop_Words.txt file included in the zip file should be placed in the same folder as TextClassification.class file.

README

- **1.** Have implemented the standard Naïve Bayes classifier algorithm. Have two classes pos & neg.
- **2.** Performed 10 fold cross validation as instructed.
- **3.** Generated 10 models for each of the fold training data, generated respective learning model (gets written to lm.txt).
- **4.** Used the learning model generated in each fold to test the testing samples set aside during that fold.
- **5.** The program execution prints the accuracy generated on each fold, and the final accuracy at the end.

REPORT

- **1.** The final accuracy ignoring stop words is 76%.
- **2.** The final accuracy without ignoring stop words is 74.5%.