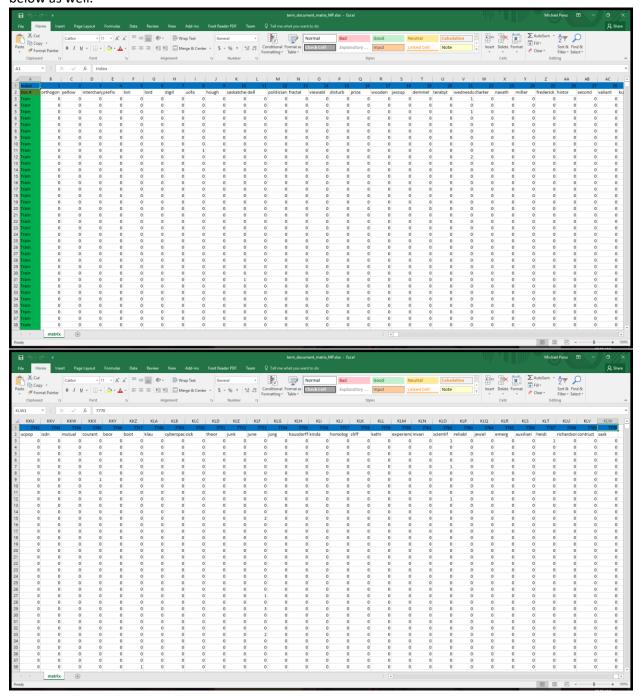
Natural Language Processing (Spring 2017) Homework # 2

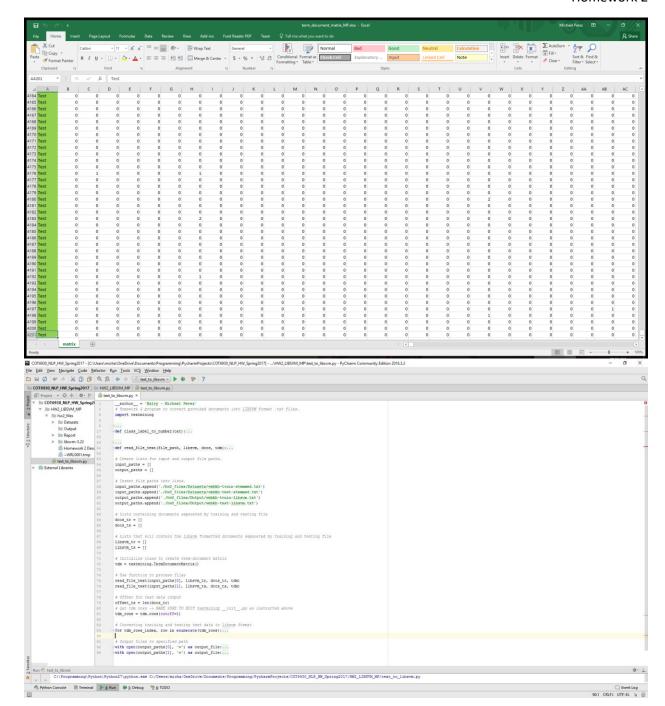
DUE: 2/26/2017 11:59pm EST Total: 10 points

1) Term-Document Matrix

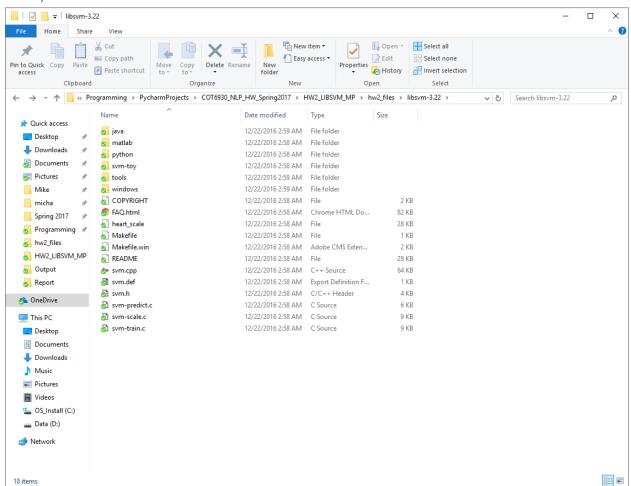
This turned out to be a large matrix when outputted into .csv and it is largely useless because of its sparsity. See screenshots below for a sample. Matrix will be attached, but it is 86.2 MB.

The code for making the conversion will be attached (made using python). Limited screenshots available below as well.





2) LIBSVM Download



3) LIBSVM Formatted Text

Attached files under the following names "webkb-test-libsvm.txt" and "webkb-train-libsvm.txt". Screenshots can be found below as well:

webkb-test-libsvm.txt



webkb-train-libsvm.txt

4) LIBSVM Training and Testing Data Demo

svm-train.exe -t 0 webkb-train-libsvm.txt

svm-predict.exe webkb-test-libsvm.txt webkb-train-libsvm.txt.model webkb_output_file_MP

C:\Users\micha\OneDrive\Documents\Programming\PycharmProjects\COT6930_NLP_HW_Spring2017\HW2_LIBSVM_MP\hw2_files\libsvm-3.22\windows>svm-predict.exe webkb-test-libsvm.txt webkb
-train-libsvm.txt.model webkb_output_file_MP
Accuracy = 85.0287% (1187/1396) (classification)

C:\Users\micha\OneDrive\Documents\Programming\PycharmProjects\COT6930_NLP_HW_Spring2017\HW2_LIBSVM_MP\hw2_files\libsvm-3.22\windows>