

## **Glossary of Folders**

#Documents – Contains files such as FYP Report, Installation Guide and User Manual

#Results – Contains output files of accuracy score

#Run – Contains batch files to run the experiments

Arff – Folder to store pre-processed data files

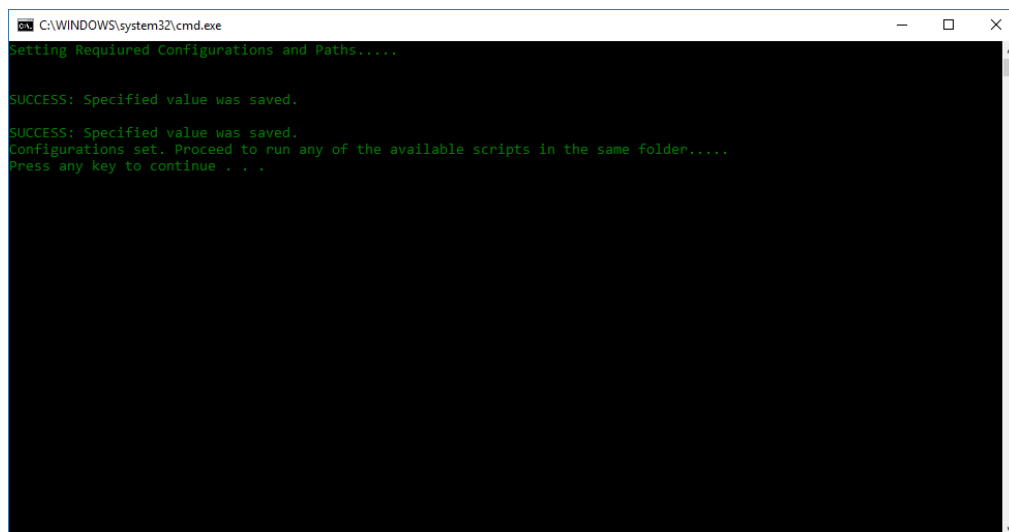
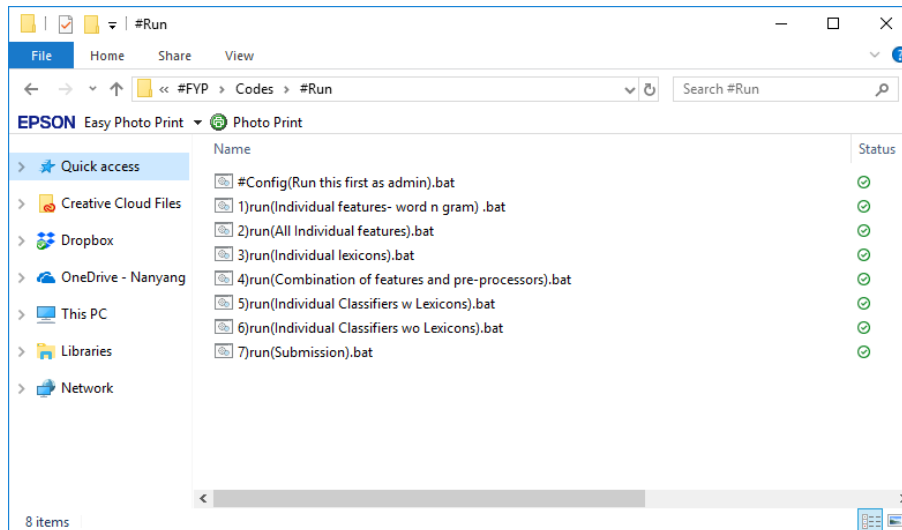
Config – Contains python scripts to evaluate accuracy scores and pre-process data files

Data – Contains all original datasets used in the experiments

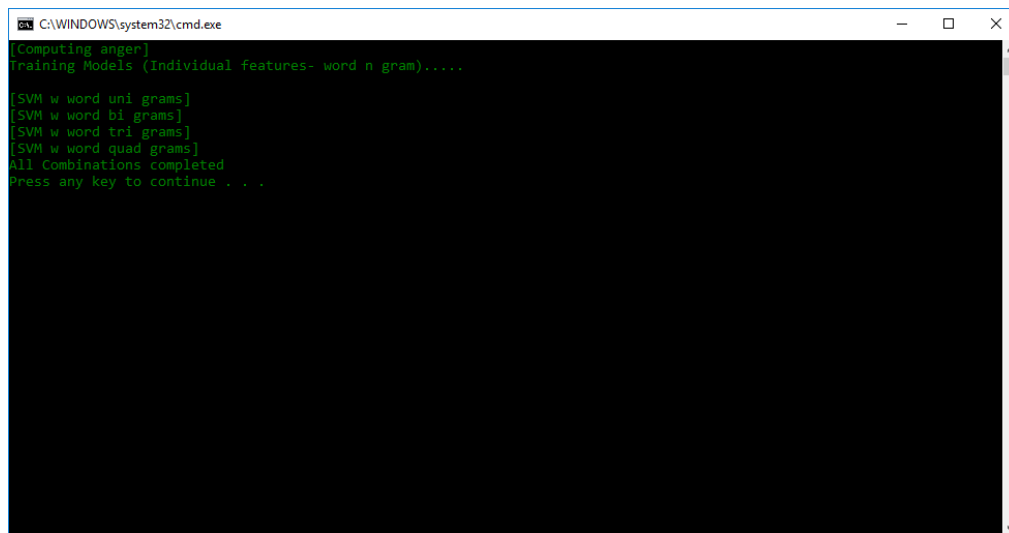
Output – Contains output of test dataset after evaluation

# Instructions

1. Go to "#Run" Folder in the git repo folder and execute #Config (Run this first as admin).bat with admin privileges



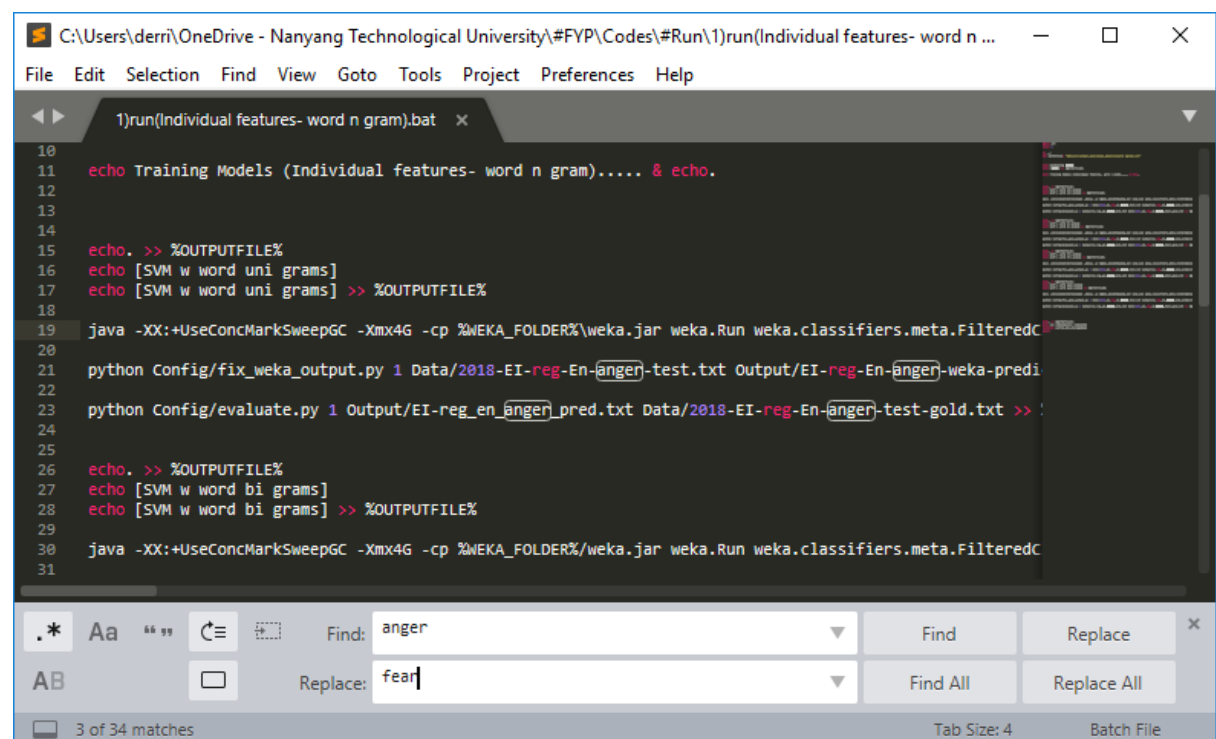
## 2. Run any of the 7 scripts available in the " #Run" Folder



```
C:\WINDOWS\system32\cmd.exe
[Computing anger]
Training Models (Individual features- word n gram).....
[SVM w word uni grams]
[SVM w word bi grams]
[SVM w word tri grams]
[SVM w word quad grams]
All Combinations completed
Press any key to continue . . .
```

The current default emotion tested on is "anger". To change the emotion (anger, fear, sadness, joy), please do the following:

- Open any one of the seven scripts
  - e.g. 1)run(Individual features- word n gram).bat
- Replace all occurrence of emotion to the new emotion



```
10
11 echo Training Models (Individual features- word n gram)..... & echo.
12
13
14
15 echo. >> %OUTPUTFILE%
16 echo [SVM w word uni grams]
17 echo [SVM w word uni grams] >> %OUTPUTFILE%
18
19 java -XX:+UseConcMarkSweepGC -Xmx4G -cp %WEKA_FOLDER%\weka.jar weka.Run weka.classifiers.meta.FilteredC
20
21 python Config/fix_weka_output.py 1 Data/2018-EI-reg-En-anger-test.txt Output/EI-reg-En-anger-weka-predi
22
23 python Config/evaluate.py 1 Output/EI-reg_en_anger_pred.txt Data/2018-EI-reg-En-anger-test-gold.txt >> :
24
25
26 echo. >> %OUTPUTFILE%
27 echo [SVM w word bi grams]
28 echo [SVM w word bi grams] >> %OUTPUTFILE%
29
30 java -XX:+UseConcMarkSweepGC -Xmx4G -cp %WEKA_FOLDER%\weka.jar weka.Run weka.classifiers.meta.FilteredC
31
```

Find: anger  
Replace: fear  
3 of 34 matches

- Save the script and run it again.

### 3. To see the accuracy results, go to the "#Results" Folder

The screenshot shows a Windows File Explorer window and a text editor. The File Explorer window is open to the "#Results" folder, showing a table of files and folders. The text editor is open to the file "output\_Individual\_Features(Word ngram).txt", displaying accuracy results for different n-gram models.

**File Explorer: #Results**

Name	Status	Date modified	Type	Size
Others	✓	21/9/2018 4:56 PM	File folder	
output_Individual_Features(Word ngram)...	✓	15/10/2018 7:16 PM	TXT File	

**Text Editor: output\_Individual\_Features(Word ngram).txt**

```
1 [anger]
2
3 [SVM w word uni grams]
4 Pearson correlation between EI-reg_en_anger_pred.txt and 2018-EI-reg-En-anger-test-gold.txt:
5 0.4385098016372889
6 Pearson correlation for gold scores in range 0.5-1 between EI-reg_en_anger_pred.txt and
7 2018-EI-reg-En-anger-test-gold.txt: 0.3972365492550743
8
9 [SVM w word bi grams]
10 Pearson correlation between EI-reg_en_anger_pred.txt and 2018-EI-reg-En-anger-test-gold.txt:
11 0.41853579464021884
12 Pearson correlation for gold scores in range 0.5-1 between EI-reg_en_anger_pred.txt and
13 2018-EI-reg-En-anger-test-gold.txt: 0.379152571737102
14
15 [SVM w word tri grams]
16 Pearson correlation between EI-reg_en_anger_pred.txt and 2018-EI-reg-En-anger-test-gold.txt:
17 0.39674414561311366
18 Pearson correlation for gold scores in range 0.5-1 between EI-reg_en_anger_pred.txt and
19 2018-EI-reg-En-anger-test-gold.txt: 0.366412583762703
20
21 [SVM w word quad grams]
22 Pearson correlation between EI-reg_en_anger_pred.txt and 2018-EI-reg-En-anger-test-gold.txt:
23 0.3781685274659122
24 Pearson correlation for gold scores in range 0.5-1 between EI-reg_en_anger_pred.txt and
25 2018-EI-reg-En-anger-test-gold.txt: 0.3519673765050155
```

#### 4. To see the content of the labelled data, go to the "Output" Folder

The screenshot shows a Windows File Explorer window with the address bar set to 'C:\Users\derri\OneDrive - Nanyang Technological University\#FYP\Codes\Output'. The folder contains two files: 'El-reg\_en\_anger\_pred.txt' (TXT File) and 'El-reg-En-anger-weka-predictions.csv' (Microsoft Excel C...). Below the File Explorer, a Sublime Text editor window is open, displaying the content of 'El-reg\_en\_anger\_pred.txt'. The text in the editor is as follows:

```
1 ID Tweet Affect Dimension Intensity Score
2 2018-En-02328 @Pageshhh1 I know you mean well but I\'m offended. Prick. anger 0.484
3 2018-En-02617 Let go of resentment, it will hold you back, do not worry about what could of been,
4 what is to come is what matters. anger 0.476
5 2018-En-01021 No, I\'m not \'depressed because of the weather,\' I\'m depressed because I have
6 #depression #sicknotweak anger 0.495
7 2018-En-03737 #AmarnathTerrorAttack Muslims are killing everywhere Syria Iraq Palestine Everyday
8 beyond They say that Islam is terrorism shame on you anger 0.48
9 2018-En-03407 Prepare to suffer the sting of Ghost Rider\'s power! Prepare to know the true
10 meaning of hell! anger 0.486
11 2018-En-02897 @ajduy04303 We\'ve been broken up a while, both moved on, she\'s got a kid, I
12 don\'t hold any animosity towards her anymore... anger 0.431
13 2018-En-04119 Just know USA, all Canadians don\'t agree with what Khadr\'s settlement and his
14 unwillingness to take responsibility for his actions. #outrage anger 0.513
15 2018-En-01392 I hate getting woken up out my sleep 0Y; anger 0.508
16 2018-En-03023 @Mothercarehelp after being assured we would get the rest of our order it has been
17 cancelled and a 10% voucher issued. #nothappy anger 0.478
18 2018-En-01244 #UKVI why are you so difficult to access? And why on earth am I being charged
19 exorbitant amounts to understand about my visa status?! #crap anger 0.582
20 2018-En-03985 I just remembered I made a presentation of the top 100 male idols out of anger
21 after seeing that siwon was first anger 0.532
22 2018-En-00032 #ATO hacking into your phone calls and text messages! #privacylaws #invasion I knew
23 they did it but hearing them get approval ! anger 0.531
24 2018-En-02200 @CP_UK Longleat money grabbing and RUBBISH customer service!!! Rapids shut but no
25 reply to emails! #diabolical #CustomerService #crap anger 0.499
26 2018-En-01391 I am so freaking annoyed that he constantly feels the need to be a time in my life
27 where I\'d be happy with just one monitor on my PC anger 0.559
28 2018-En-02433 I cannot see a rational way of bearing a grudge to him for that. I do not. Maybe
29 because I do not live by Netflix and I do not care anger 0.559
```