

Dear Reader,

Please find attached to this assignment the following items:

1. CS6120_NLP_Assignment_1_Notebook_Saleh-Alkhalifa.ipynb
2. text_classifier.py
3. loglikelihood.json

You can access the '.ipynb' using Jupyter notebook and opening the file. You can run the text_classifier module by running the command "python text_classifier.py" This will require the loglikelihood.json file to be loaded in an "artifacts" file. An example of the file running on the command line can be seen below:

```
#####  
Sentiment  
Classifier  
#####  
  
Welcome to the movie review classifier!  
  
Instructions:  
Enter your review and we will detect the sentiment.  
Example: 'This is a great movie', or 'this is a terrible movie'  
  
To exit the application, enter 'X'  
  
Review: this is an amazing movie!  
Word: amaz -> -1.0173561243498324  
Word: movi -> 0.27144572527368915  
Positive Sentiment Detected  
Review: this is a terrible movie!  
Word: terribl -> 1.7600173195501176  
Word: movi -> 0.27144572527368915  
Negative Sentiment Detected  
Review: X  
Exiting now!
```

My full code and readme.md can be found on my personal GitHub: <https://github.com/alkhalifas/cs-6120-natural-language-processing/tree/master/Assignments/Assignment%201>