CS 6350

ASSIGNMENT \_\_\_\_\_2\_\_\_\_\_\_\_

Names of students in your group:

Aditya Kulkarni (axk230069@utdallas.edu)

Number of free late days used: \_\_\_\_\_\_\_\_0\_\_\_\_\_\_\_\_\_\_\_   
Note: You are allowed a **total** of 4 free late days for the **entire semester**. You can use at most 2 for each assignment. After that, there will be a penalty of 10% for each late day.

Please list clearly all the sources/references that you have used in this assignment.

1. [Naive Bayes, Text Classification, and Sentiment](https://web.stanford.edu/~jurafsky/slp3/4.pdf)
2. [Natural Language Processing(Part 17)-Laplacian Smoothing](https://medium.com/@Coursesteach/natural-language-processing-part-17-laplacian-smoothing-7d4be71d0ded)

Solution:

Part 1:

Solution Link: <https://databricks-prod-cloudfront.cloud.databricks.com/public/4027ec902e239c93eaaa8714f173bcfc/3380253459312739/4478292658001737/8088637324675909/latest.html>

Part 2:

Solution Link: <https://databricks-prod-cloudfront.cloud.databricks.com/public/4027ec902e239c93eaaa8714f173bcfc/3380253459312739/161730108111329/8088637324675909/latest.html>

Attached in submission:

1. *Notebooks for part-1 and part-2(in case there is some issue with above links)*
2. *PDF file for detailed algorithm for part 1*
3. *PDF file for algorithm and results for part 2*
4. *CSV file containing results for part 1*
5. *Dataset:* [*IMDB Dataset of 50K Movie Reviews*](https://github.com/adityavkulkarni/6350_assignment2/blob/master/IMDB%20Dataset.csv)

[*IMDB Dataset of 50K Movie Reviews*](#https://www.kaggle.com/datasets/lakshmi25npathi/imdb-dataset-of-50k-movie-reviews)