

Project link: <http://nifty.stanford.edu/2016/manley-urness-movie-review-sentiment/>

For my final project, I will complete a movie review sentiment analysis. I'm really interested in this project because it will be a good introduction to machine learning, and it will also give me experience working with a large data file. This project also allows me to focus on efficient use of data structures, which is a very useful skill for software engineers. I will first use a small sample of the movie review data file to test out my algorithm. Then, I will test my algorithm on the entire data file. These are the directions as according to Nifty:

1. Read in a review
2. Assign each word in the review the score attributed to the review
3. Enter a WordEntry object (consisting of the word, total score, and number of occurrences) into a hash table. If word already exists in the hash table, update the score and number of occurrences to the record
4. Repeat Step 1 until all data is entered

The main.cpp program that does this is provided for you. Your responsibility is to implement the HashTable.cpp and WordEntry.cpp files. The corresponding .h files are supplied on the course website.

The program should prompt the user to input a movie review, and automatically score the review based on the average score of the words in the review. The program must implement all methods in the WordEntry.cpp and HashTable.cpp files correctly.