Sentiment Analysis Project Report

Ena So, 0961375, Nov, 27th, 2019

Abstract—In this project, we explore various Natural Language Processing techniques to perform sentiment analysis on movie reviews. We work with 2 different data sets one with negative reviews and one with positive reviews. Using 2 different feature selection and 3 different classification model we compare the performance of each model.

I. INTRODUCTION

MOVIE REVIEWS are frequently used to evaluate the quality of the movie and many people refer to these reviews to pick which movie fits their interest. Enormous amount of textual movie reviews available online provides us deeper qualitative information than numerical star ratings that gives quantitative information. But how can we analyze the textual reviews and conclude with whether ite objece objec meets readers expectation?

Sentiment Analysis is a well-known technique in the realm of natural language processing. It's objective is to determine the polarity of the data which is given as set of texts. In this project we classify the given data into 2 different cases: (+)positive, or (-)negative polarity.

II. MATERIALS AND METHODS

III. HOW TO RUN

Entire project is written in Jupyter Notebook Open the Jupyter notebook and each cell runs separate part of the project.
first couple cells will import all the modules that is needed for the program.
Cell 3 will load data and run data analysis.
Cell 4 will train and test the data and print out the test results.
** to run each cell, there is a run button on top of the notebook and currently clicked.
will run and the result will be displayed right underneath the bottom