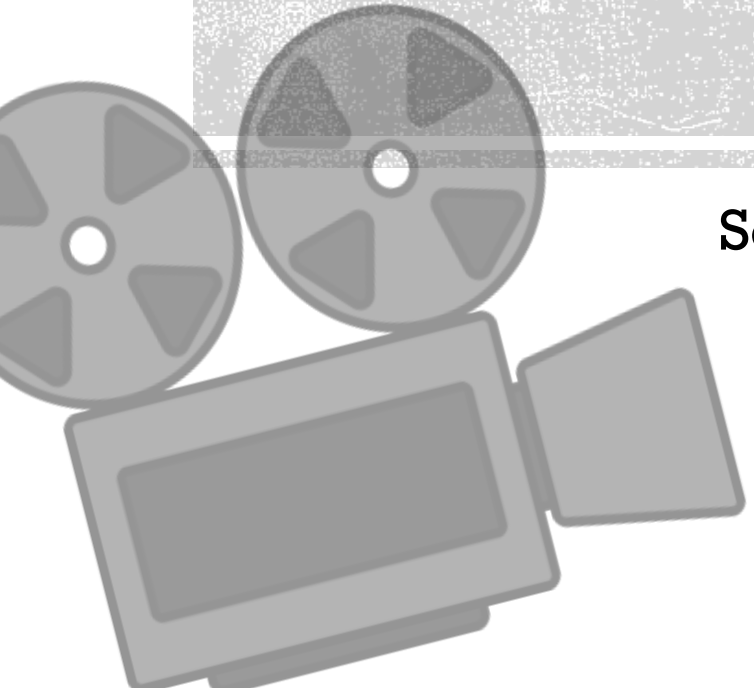
I-RATE MOVIE

Sentiment analysis of movie reviews



INTRODUCTION

- Sentiment analysis is language processing task that uses a computational approach to identify uncompromising content and categorize it as positive, negative or neutral.
- A simple sentiment analysis algorithm attempts to distinguish a document as ‘positive’ or ‘negative’, based on the opinion expressed in it.
- **Problem Statement :**movies review is becoming a more useful and important information resource for people, and it is very important to get people’s reviews on a particular topic of interest.

- **Motivation :**The motivation behind this approach is that the people who review the movies, their reviews are used to rate the movies.

RELATED WORK :

- a method focuses on a linguistic approach of computing the opinion of a clause from the prior sentiment scores assigned to individual words. Sentences will be divided into individual portion and then check if there is any grammatic mistakes. The approach found to be affective for short documents such as message posts on discussion boards. Used to multiple review aspects.

- discrimination only between positive and negative sentiment. compared different machine learning algorithm to this problem. The algorithms were a generative approach (language models), continuous representations of sentences and a clever reweighing of tf-idf bag-of-word representation of the document. Three algorithms found to be affective.

TECHNICAL BACKGROUND

- **Python .**
- **Machine Learning.**
- **Natural Language Processing .**
- **Regular Expression.**
- **One Hot Encoding.**
- **Logistic Regression .**

METHODOLOGY

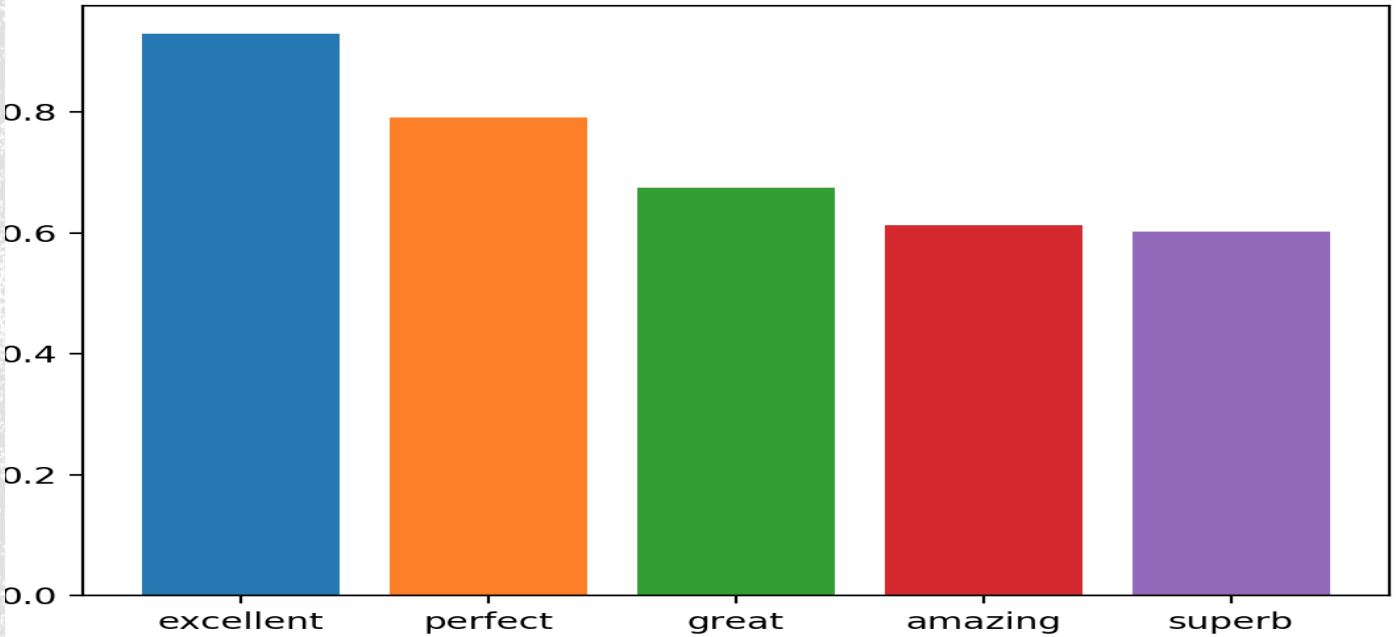
DATA SET

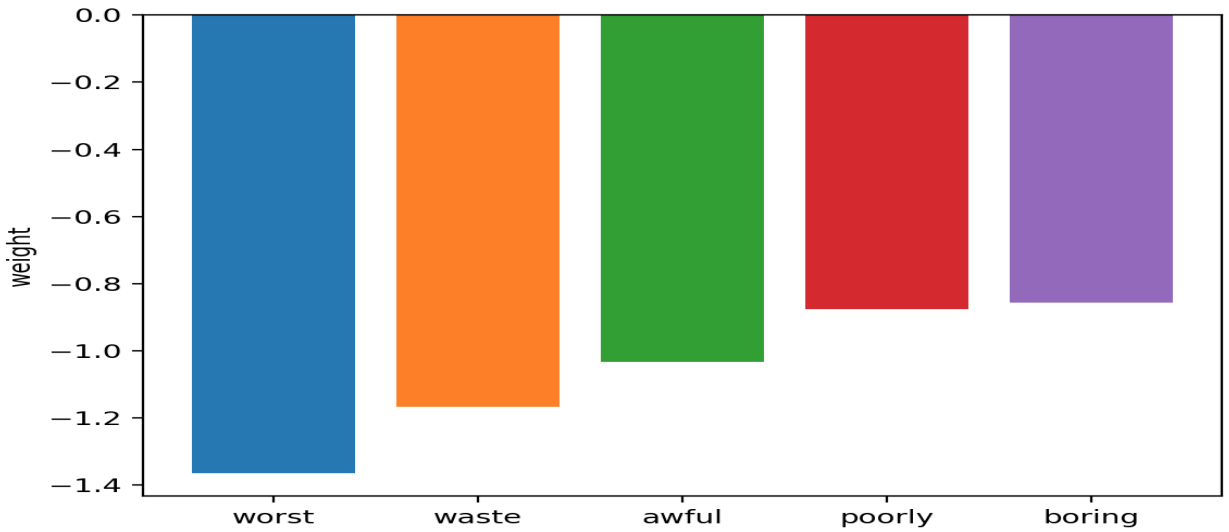
DATA PREPROCESSING.

VECTORIZATION

ALGORITHM

RESULTS





RESULT

- After training data with different C (Inverse of regularization strength), turned out that is the best value for regularization is C=0.05 with accuracy 0.88152.