

Prepared and assessed by:

Nakul Chamariya (1813064)

Priyanuj Bordoloi (1813083)

Sentiment-Analysis-on-IMDB-Dataset

Natural Language Processing

This is a basic form of Natural Language Processing (NLP) called Sentiment Analysis in which we will try and classify a movie review as either positive or negative.

Sentiment Analysis

Opinion mining (sometimes known as sentiment analysis or emotion AI) refers to the use of natural language processing, text analysis, computational linguistics, and biometrics to systematically identify, extract, quantify, and study affective states and subjective information. Sentiment analysis is widely applied to voice of the customer materials such as reviews and survey responses, online and social media, and healthcare materials for applications that range from marketing to customer service to clinical medicine.

Generally speaking, sentiment analysis aims to determine the attitude of a speaker, writer, or other subject with respect to some topic or the overall contextual polarity or emotional reaction to a document, interaction, or event. The attitude may be a judgment or evaluation (see appraisal theory), affective state (that is to say, the emotional state of the author or speaker), or the intended emotional communication (that is to say, the emotional effect intended by the author or interlocutor).

The dataset has following features:

Categories: [0 1]

Number of unique words: 9998

Average Review length: 234.75892

0 category refers to negative sentiment and 1 category refers to positive sentiment

Results:-

Train loss: 0.0108

Train accuracy: 0.9957

val_loss: 0.8497

val_accuracy: 0.8843



