Predicting Movie Rating Using Sentiment Analysis on Reviews

# Abstract

So, what exactly is sentiment? Sentiment relates to the meaning of a word or sequence of words and is usually associated with an opinion or emotion. And analysis? Well, this is the process of looking at data and making inferences; in this case, using machine learning to learn and predict movie rating. Movie reviews are an important way to gauge the performance of a movie. While providing a numerical/stars rating to a movie tells us about the success or failure of a movie quantitatively, a collection of movie reviews is what gives us a deeper qualitative insight on different aspects of the movie. A textual movie review tells us about the strong and weak points of the movie and deeper analysis of a movie review can tell us if the movie in general meets the expectations of the reviewer.. Using sentiment analysis, we can find the state of mind of the reviewer while providing the review and understand if the person was “happy”, “sad”, “angry” and so on. In this project we aim to use Sentiment Analysis on a set of movie reviews given by reviewers and try to understand what their overall reaction to the movie was, i.e. if they liked the movie or they hated it and predict rating for new movies.

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# Datasets

* IMDB Movie Ratings Sentiment Analysis

# References

* <https://ieeexplore.ieee.org/document/8819800>
* [https://www.researchgate.net/publication/321843804\_Sentiment\_Analysis  
  \_of\_Movie\_Reviews\_using\_Machine\_Learning\_Techniques](https://www.researchgate.net/publication/321843804_Sentiment_Analysis_of_Movie_Reviews_using_Machine_Learning_Techniques)
* <https://towardsdatascience.com/sentiment-analysis-a-how-to-guide-with-movie-reviews-9ae335e6bcb2>