Movie Review Sentiment Predictor

Problem Statement: Can I develop a natural language processing (NLP) method to determine the sentiment of a movie review based solely on the text within the review so that Rotten Tomatoes can have more accurate movie scores?

Client: Rotten Tomatoes

Data: Utilizing a dataset sourced from Kaggle: https://www.kaggle.com/datasets/lakshmi25npathi/imdb-dataset-of-50k-movie-reviews, which contains 50,000 user reviews and their sentiment (positive or negative).

Criteria for Success: Success will be determined by identifying an accurate way to determine the sentiment of a user review using NLP to analyze the text within the review.

Scope: The project aims to create a model that would be able to accurately assess any movie review written and determine whether the user liked the movie or not.

Constraints: Lack of time and resources will cause this project to rely on a dataset from kaggle and trusting that the data within this set is accurate to the truth of the sentiments for each review.

Stakeholders: The project stakeholders include the CEO and Technology Lead for Rotten Tomatoes, who with to improve their movie scoring accuracy.

Deliverables: The primary deliverable will be a presentation deck summarizing key findings, supported by documentation detailing the methodology and code used. Additionally, a deployable model capable of predicting movie review sentiments future movies will be provided.