

Title: Analyzing the Influence of Rotten Tomatoes Reviews on IMDb Movie Ratings

Author: Aditya Chunduri

Objective:

This project aims to dissect the complex interplay between public sentiment and cinematic success by examining how movie reviews on Rotten Tomatoes influence IMDb ratings. Through this analysis, we seek to uncover patterns that might suggest a predictive relationship between audience reception and a movie's acclaim.

Data Sources:

1. IMDb Top 250 Movies:

- Description: A curated list of the top 250 movies as rated by IMDb users, showcasing a diverse range of influential films.
- Data Acquisition: Automated web scraping with BeautifulSoup, targeting movie titles, ratings, and metadata.
- URL: [IMDb Top 250](<https://www.imdb.com/chart/top>)

2. Rotten Tomatoes Reviews:

- Description: Extensive user-generated reviews and ratings for a broad spectrum of movies.
- Data Acquisition: Advanced dynamic scraping using Selenium to capture nuanced review texts and detailed rating statistics.
- URL: [Rotten Tomatoes](<https://www.rottentomatoes.com>)

3. Kaggle Movie Dataset:

- Description: Comprehensive movie dataset which may include additional ratings and metadata not found on IMDb or Rotten Tomatoes.
- Data Acquisition: Utilization of existing datasets from Kaggle to enrich our analysis.
- URL: [Kaggle Datasets](https://www.kaggle.com/datasets/rounakbanik/the-movies-dataset?select=movies_metadata.csv)

Project Description:

This investigation will synthesize data from IMDb, Rotten Tomatoes, and Kaggle to paint a detailed picture of the relationship between review sentiments and movie ratings. The project will employ sophisticated data integration techniques to merge these diverse sources effectively. By conducting detailed sentiment analysis on Rotten Tomatoes reviews and correlating these sentiments with IMDb ratings, this study will explore whether public opinion can significantly sway a movie's rating. Our analysis will not only highlight trends but also provide actionable insights that could inform industry practices and audience engagement strategies. The ultimate goal is to articulate a clear narrative about how reviews influence viewer perceptions and ratings on major platforms, thus affecting a movie's overall success.