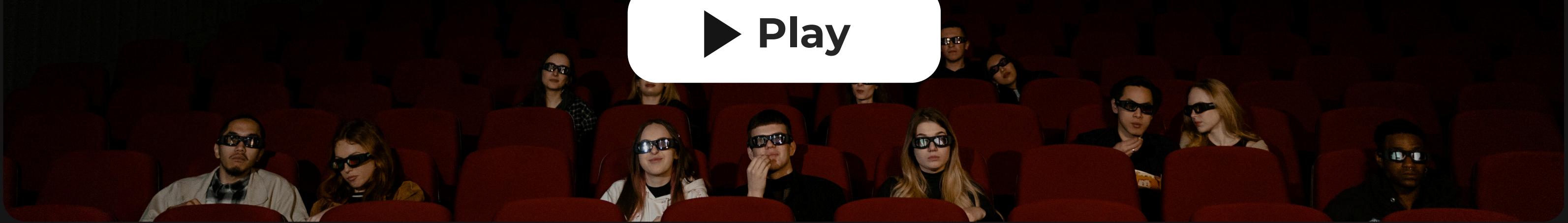


Final Presentation



MOVIE REVIEW SUMMARIZER & RECOMMENDER

► Play



Who's Coding?



Bo



Ethan



Jake



Zac

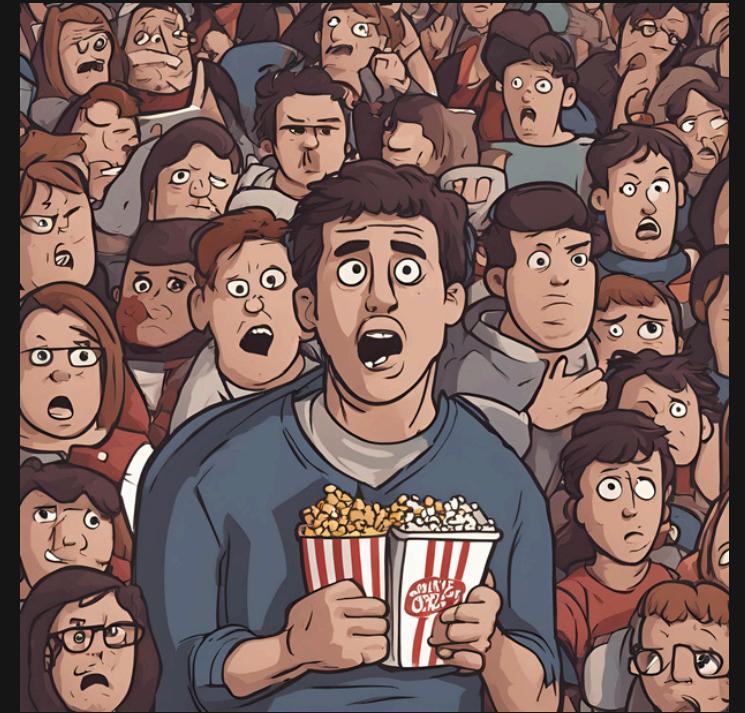
Start

What's the problem?



How good is a movie???

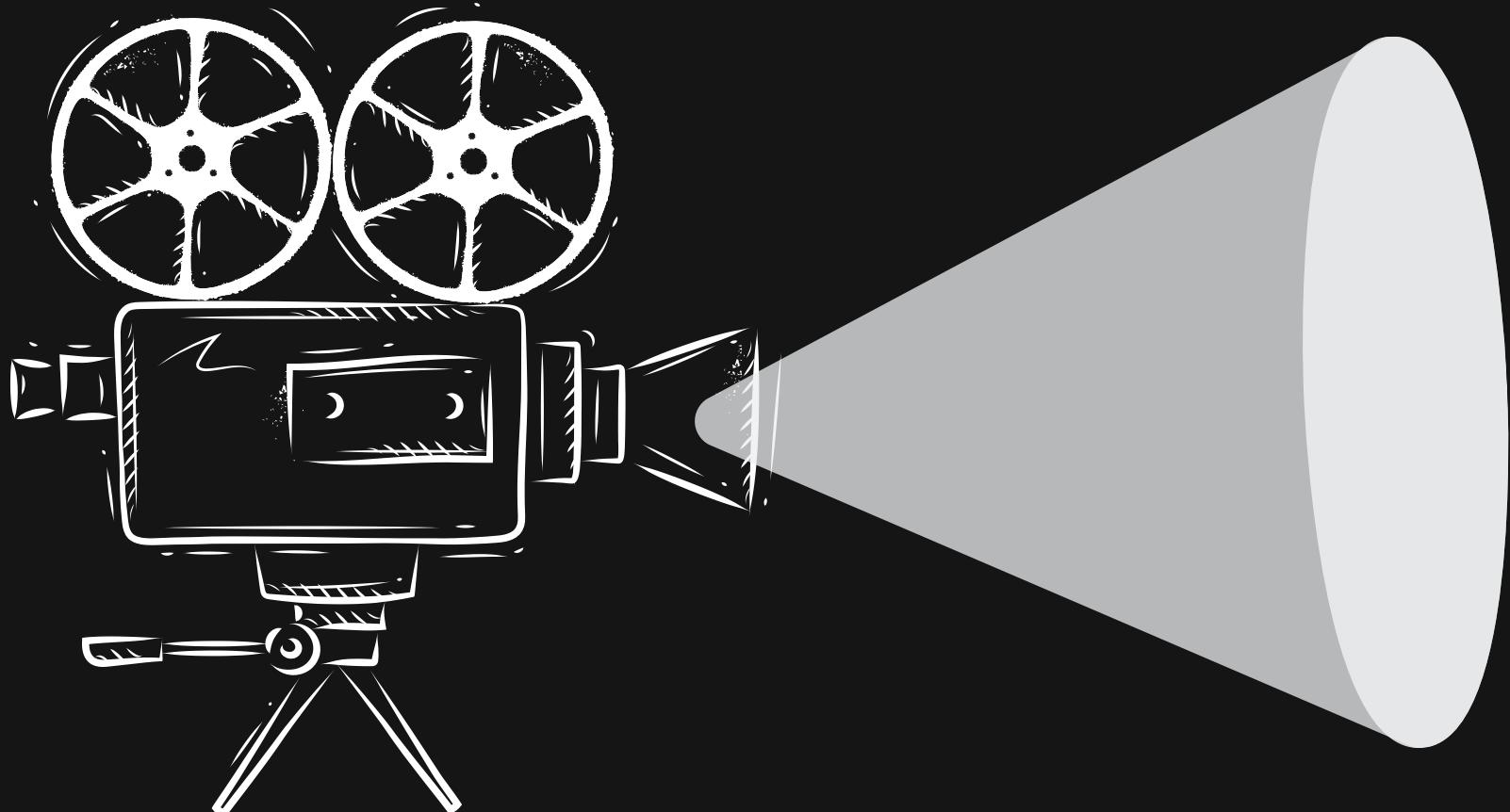
Given the vast number of reviews from professional critics, influencers, and friends, it is unrealistic to read and evaluate them all.



INFORMATION OVERLOAD
INFORMATION OVERLOAD
INFORMATION OVERLOAD
INFORMATION OVERLOAD
INFORMATION OVERLOAD



Overview & The Goal



amazon
 (review summarization)
meets
NETFLIX
(movies + recommendations)

DATA IS....

GOLD

Source

kaggle™

+

Rotten
Tomatoes®



Data Cleaning & Preparation



No. 1

Decreasing the data size from 1.1 million reviews to a workable number by limiting our dataset to movies that had at least 370 reviews. Which resulted in ~200 Movies



No. 2

Merging two large datasets to have readable movie titles as a column in the dataset we are working with



No. 3

Removing the reviews that didn't have any scoring value given by critics



No. 4

Normalizing critic scoring to a scale between 0-100 to compare to what our model was giving

Movie Model



We developed a Natural Language Processing model using the OpenAI API. Our model processes all the reviews for a single movie, sends them through Chat GPT-4o, and returns a comprehensive summary. The summary includes:

- What the majority of people are saying,
- What the minority are saying,
- The overall sentiment.

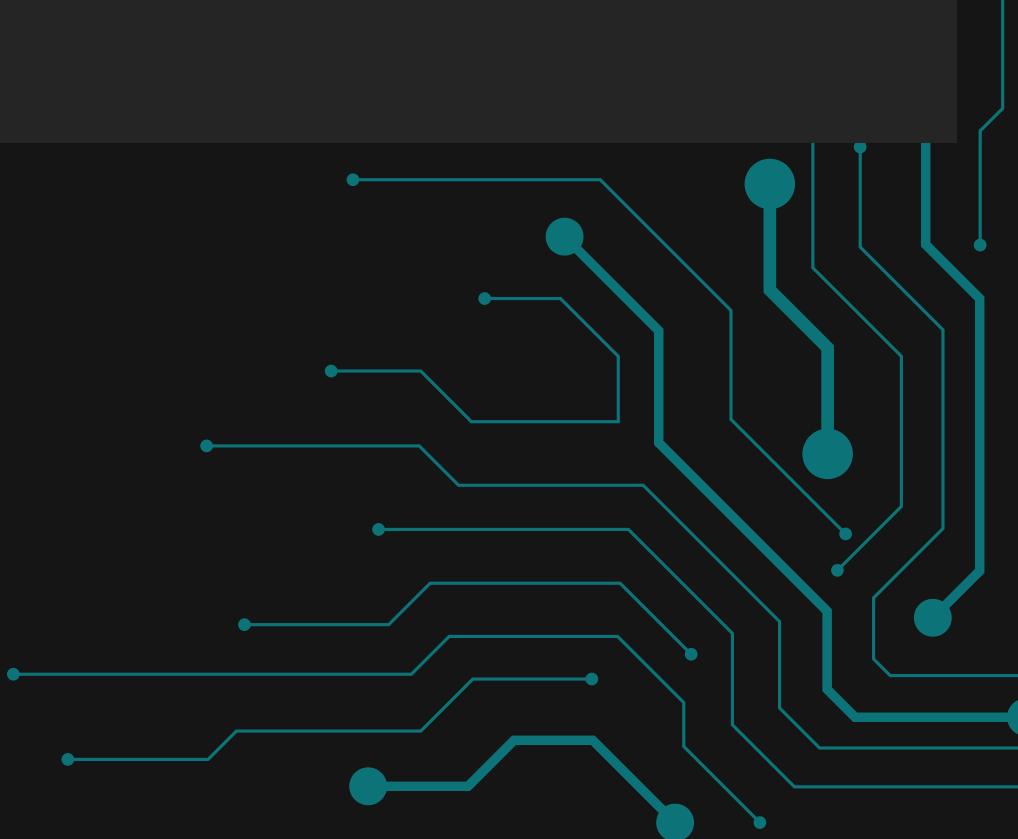
Movie Review Summarizer

Select a movie title

Movie Summary

Get Summary

Movie Recommendations



TEASER TRAILER

Movie Review Summarizer

Select a movie title

Baby Driver

Movie Summary

What Most Viewers Are Saying:

Most viewers are enchanted by "Baby Driver," praising it as an exhilarating heist film with a unique blend of music and action. They commend Edgar Wright's masterful direction, impeccable synchronization of music with scenes, and the high-energy car chases that outshine other franchises like "Fast & Furious." Many highlight the film's exhilarating action, captivating soundtrack, and engaging characters, calling it one of the best movies of the year and a significant accomplishment for Wright.

What Some Viewers Are Saying:

Some viewers criticized the film for its somewhat shallow storyline, overreliance on style, and a predictable plot. While the film's technical achievements and soundtrack were appreciated, these viewers felt the emotional aspect and character depth were lacking, making the experience feel hollow or superficial at times. Others noted that despite these flaws, the film remains entertaining and a visual spectacle.

Overall Sentiment:

The overall sentiment of the reviews is highly positive. "Baby Driver" is lauded as an original, exhilarating cinematic experience. Its fusion of kinetic action with a diverse, perfectly synced soundtrack makes for an engaging thrill ride. Despite minor criticisms of the plot's depth, the film's innovative approach and Edgar Wright's direction leave audiences highly entertained and eager for more.

Movie Recommendations

If you like, Baby Driver, you may also like:

Guardians of the Galaxy Vol. 2

Scott Pilgrim vs. the World

Mission: Impossible - Fallout

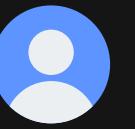
1917

Mad Max: Fury Road

MOVIE



Questions, Problems and Plans for the Future



Questions

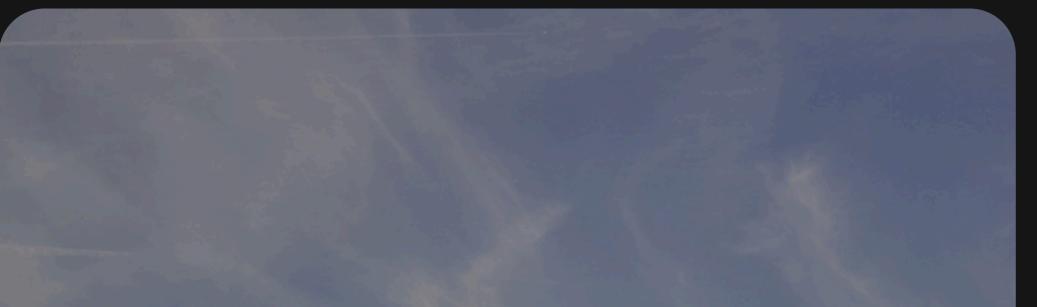
- Who could benefit from this model?
- Could this be used for other topics like video games, products, etc?
- Stop words - Keep or filter out?

Problems

- We kept running into token per minute limits
- Data size and Runtimes
- Cost
- Had to use older version of OpenAI
- OpenAI server crashing mid runtime
- Scores from critics varying in value (A,B,C,D&F Grading; 1-5 Stars; 0-100%)

Plans for the Future

- Deploy our project on Hugging Face
- Run the model on all the reviews
- Have our OpenAI model give a overall score from 0-100 for all the movies
- Fully fleshed out recommendation system
- Connect to RottenTomatoes API for regular updates.
- Have a prettier GUI integrated with RottenTomatoes



MOVIE



THANK YOU!

QUESTIONS?

► End

