

Abhimanyu Aryan PG51632 | Millena Santos PG54107 | Ricardo Oliveira PG54177

#### Table of contents



#### Introduction

- Context
- Objectives
- Planning



#### **Technologies**



### Implementation • Data Extraction

RAG pipeline



#### Results

- User Interface
- Comparison with GPT40



#### Conclusion

Limitations and Future Work



#### Context

- Movies are a powerful medium of storytelling that have a profound impact on society. They entertain, educate, and inspire audiences, transcending geographical and cultural boundaries;
- Personalized recommendations help users discover movies that match their preferences, enhancing their viewing experience;
- Hollywood films often set trends in filmmaking and popular culture.
   The industry is renowned for producing a wide variety of genres, including action, drama, science fiction, and animation.
- Based in Mumbai, India, Bollywood is the largest film industry in the world in terms of the number of films produced and tickets sold.
- The cultural influence of Bollywood is immense, with its movies and stars being adored across South Asia and among the Indian diaspora worldwide.





# **Objectives**



Better recommendation for movies based on more context

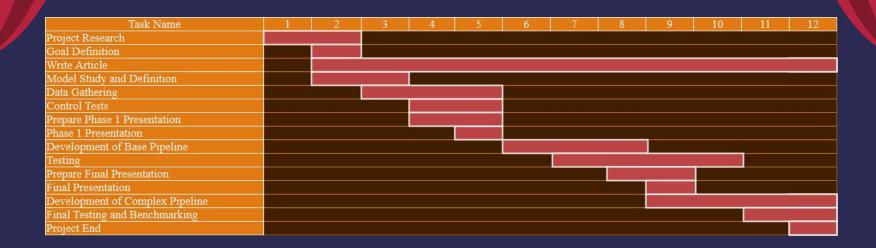


Specific questions about movies



Up to date with the latest movies

## Planning





# 02 Technologies



# **Technologies**









## **Implementation Process**











### **Data Gathering**

- All movies from the 2020's section in the page "Lists of Hindi films";
- All movies from the 2020's section in the page "Lists of American films";
- Used Wikipedia API to extract all content from each movie's page;
- Contents saved as PDF.

## RAG Pipeline

- Prompt Engineering;
- Indexing and Embedding;
- Embedding Storage.



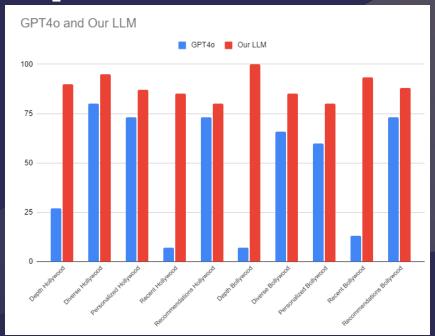
#### **User Interface**

#### Enter a description and get a list of movies!

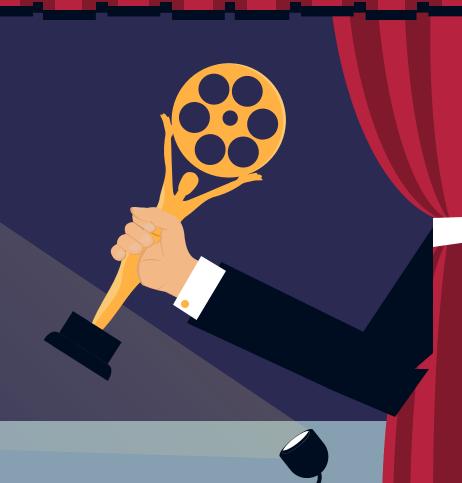
Example: A comedy movie set in new york city

Generate!

# Comparison with GPT-40



# 05 Conclusion



#### **Limitations and Future Work**

- Difficulty in handling "tricky" questions;
- Evaluation Pipeline
  - Sentence-window retrieval;
  - Auto-merging retrieval.



Abhimanyu Aryan PG51632 | Millena Santos PG54107 | Ricardo Oliveira PG54177