Providing recommendation solutions for movie streaming platforms.

Meet the Movie Recommenders:

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Supervisor:

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The Client

RELIABLE
RECOMMENDERS

WEAVING STORIES TOGETHER

Overview

1. Introduction
2. Problem statement
3. Exploratory Data Analysis
4. Machine Learning Models
5. Streamlit App
6. Conclusion
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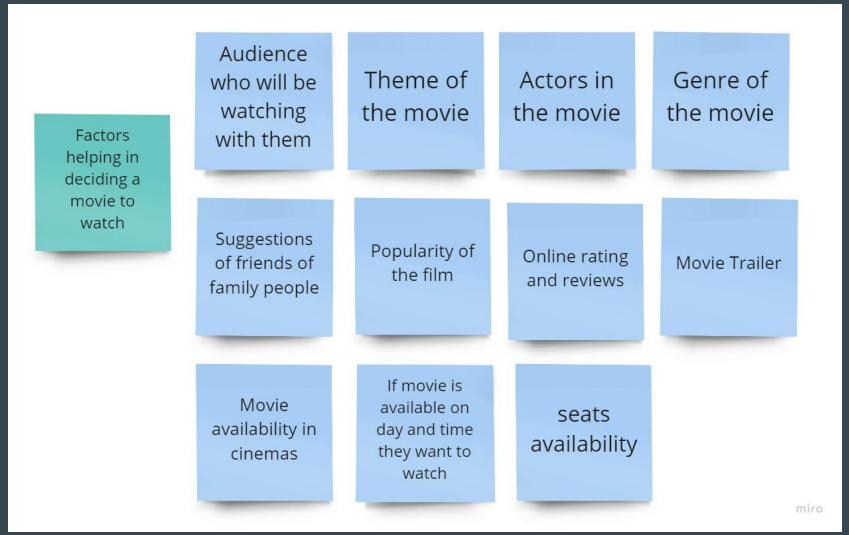
Introduction:

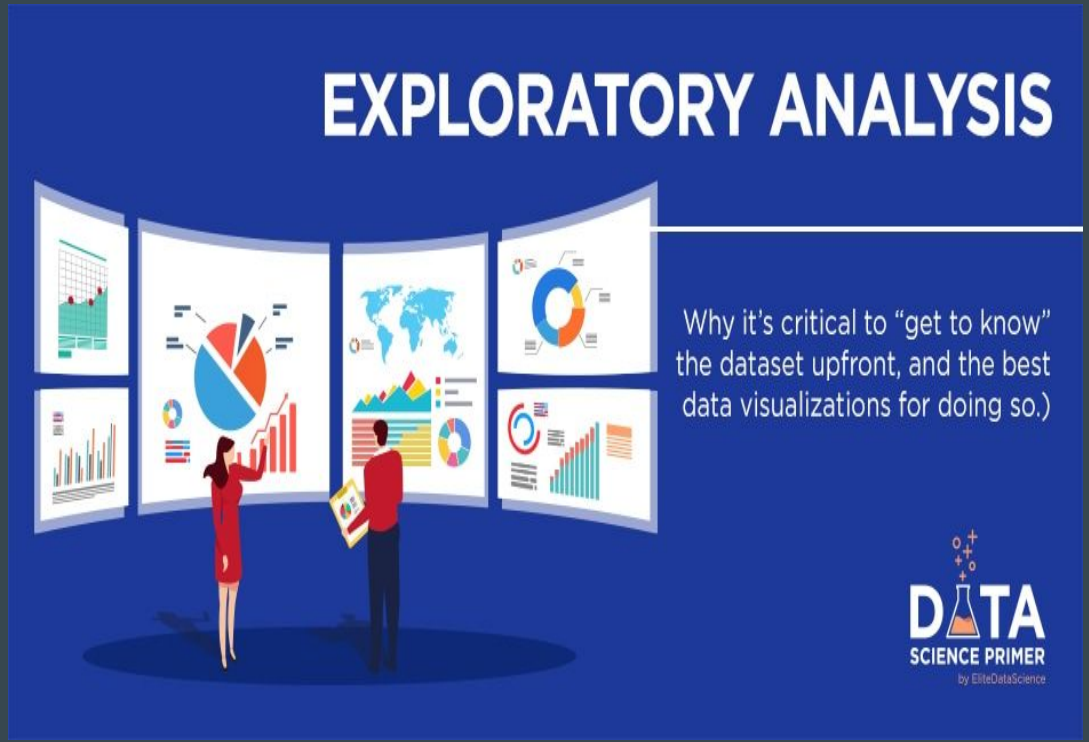


- Too much time taken searching through the movies
- People have problem in selecting alternative items(eg.movies)
- Expand Cognitive resources
- Need large data set of movie collection.

Problem Statement:

- To engage with users
- Build a model that can recommend movies to users
- Deploy the model using an App
- Drive Traffic
- Deliver relevant content
- Increase order value

Exploratory Data Analysis



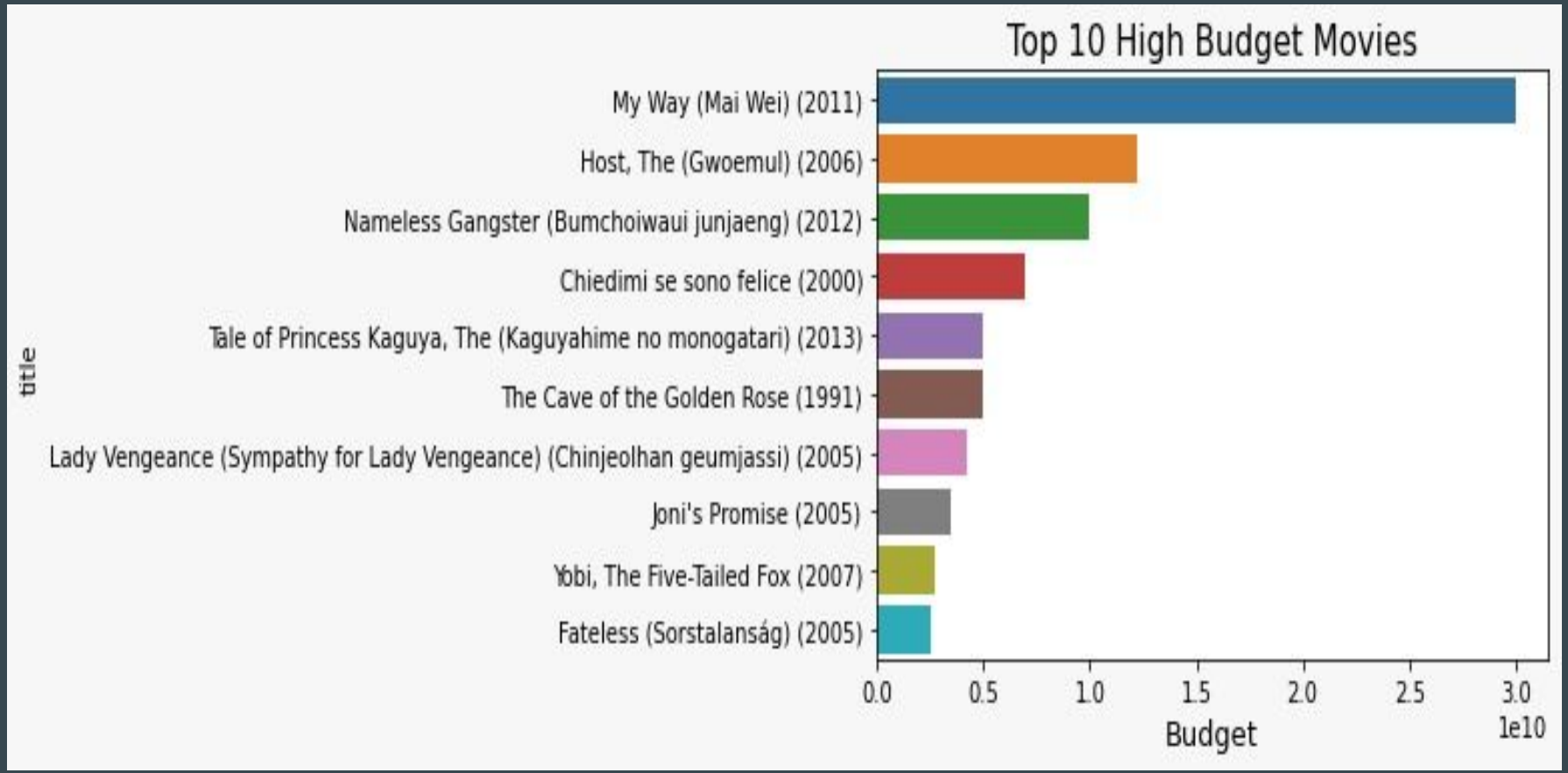
- Analyse datasets using visuals

Movie Budget Analysis

Elements of a movie budget:

- Story rights
- Screenplay
- Producers
- Director
- Cast
- Production costs
- Visual effects
- Music

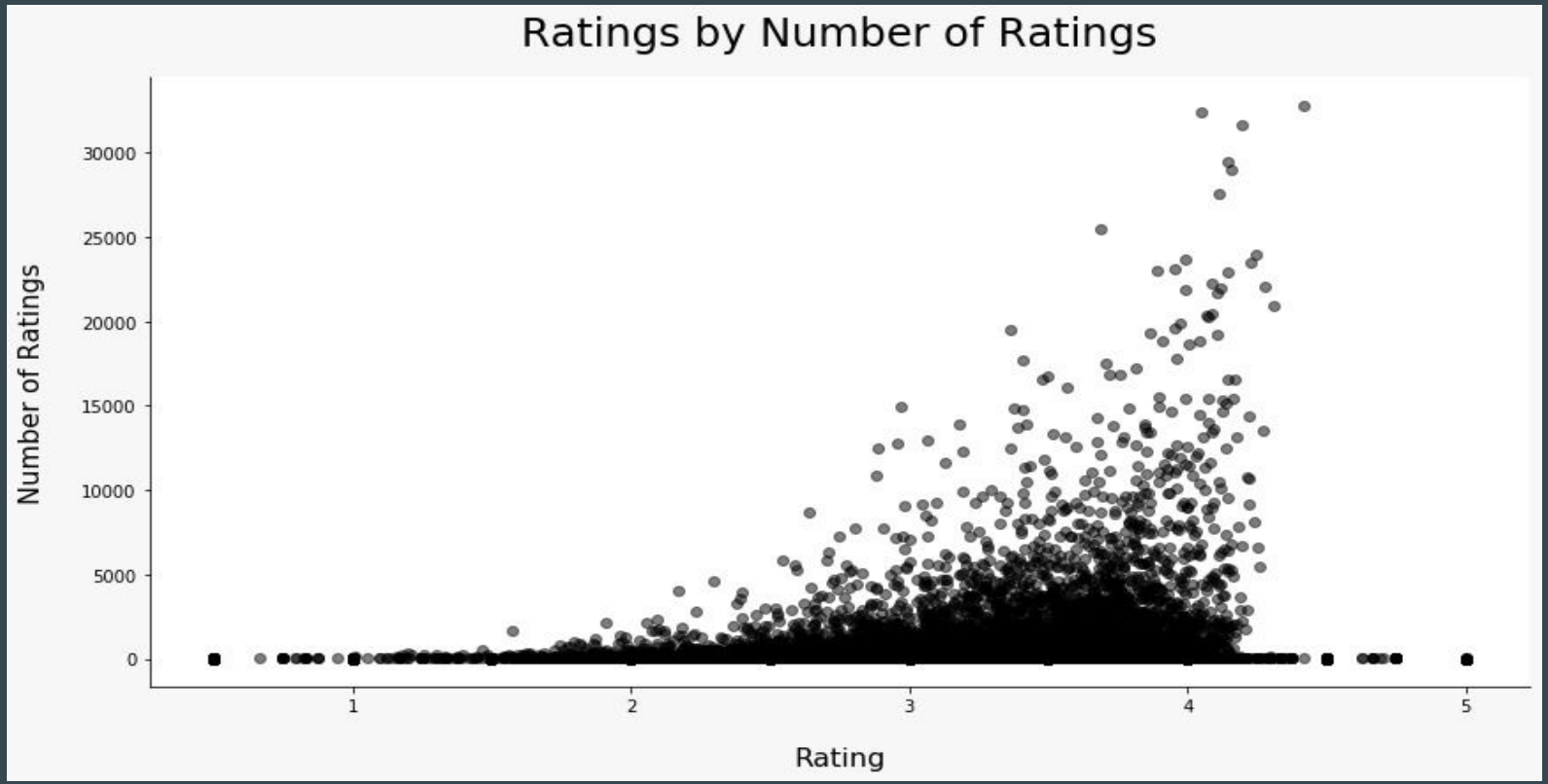
What were the most expensive movies made?



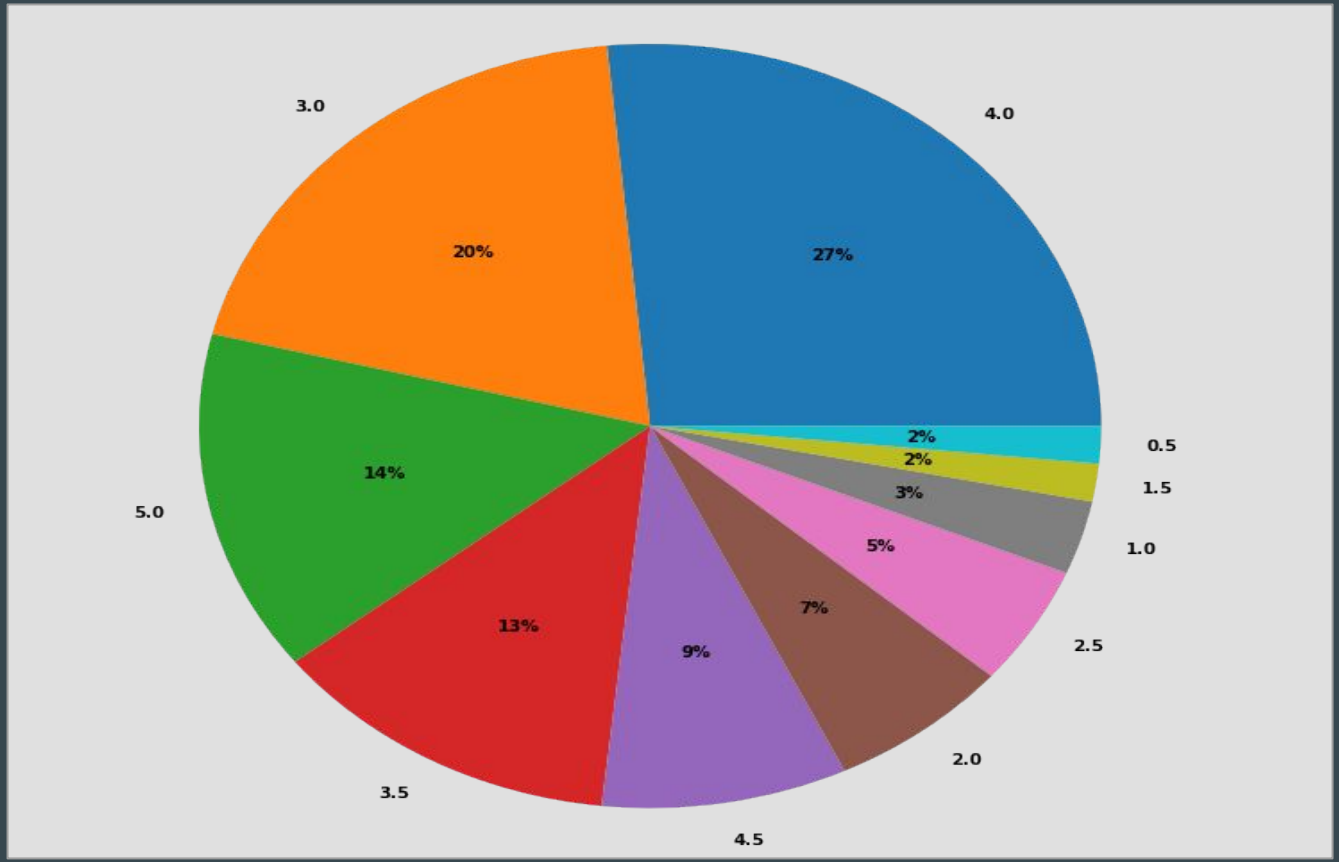
Analysis of the ratings

- How does the Movies ratings change as more people rate the movie?
- Ratings Distribution
- Most popular movies based on their ratings

How does the Movies ratings change as more people rate the movie?

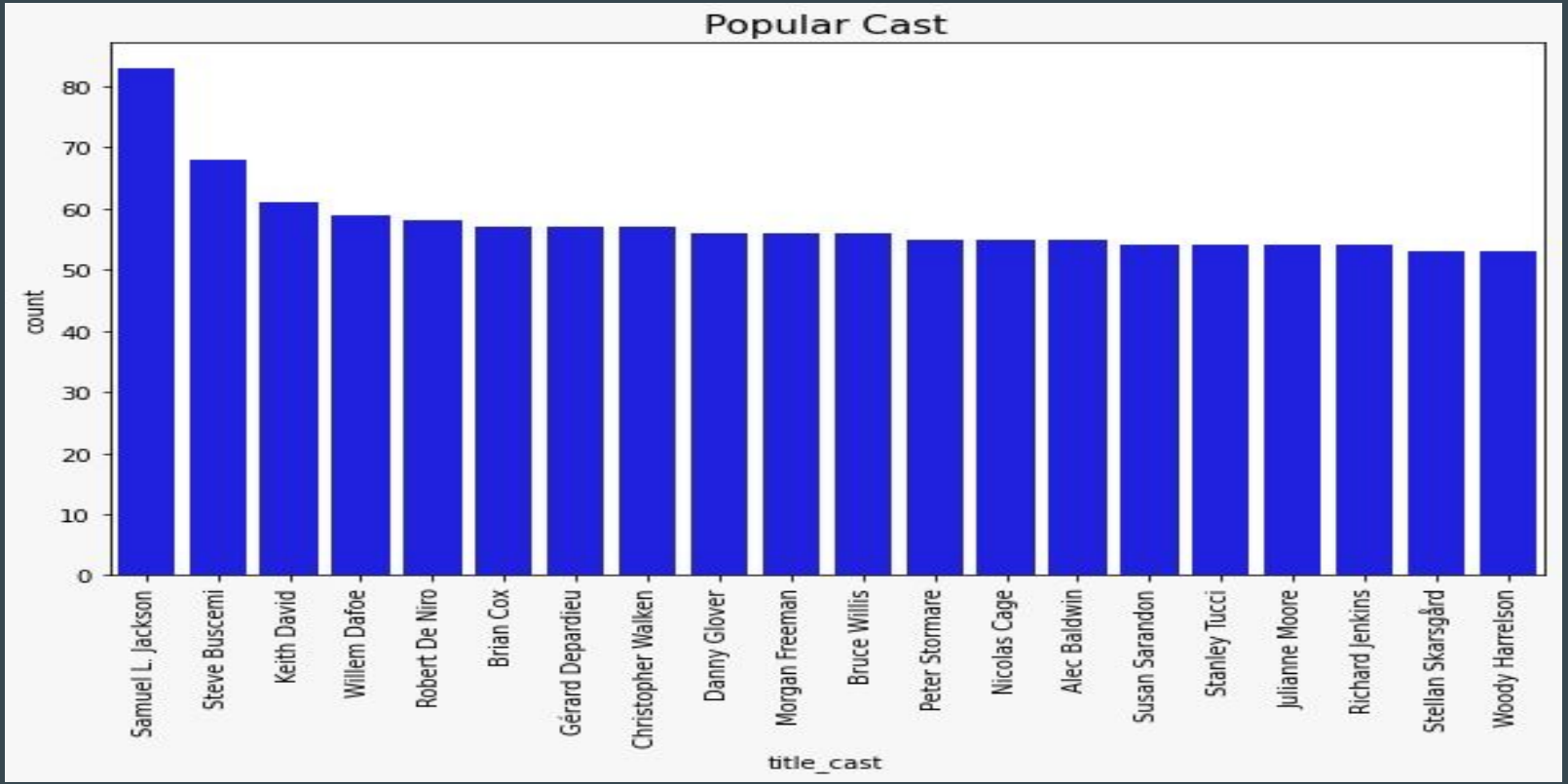


How are the ratings distributed throughout the dataset?



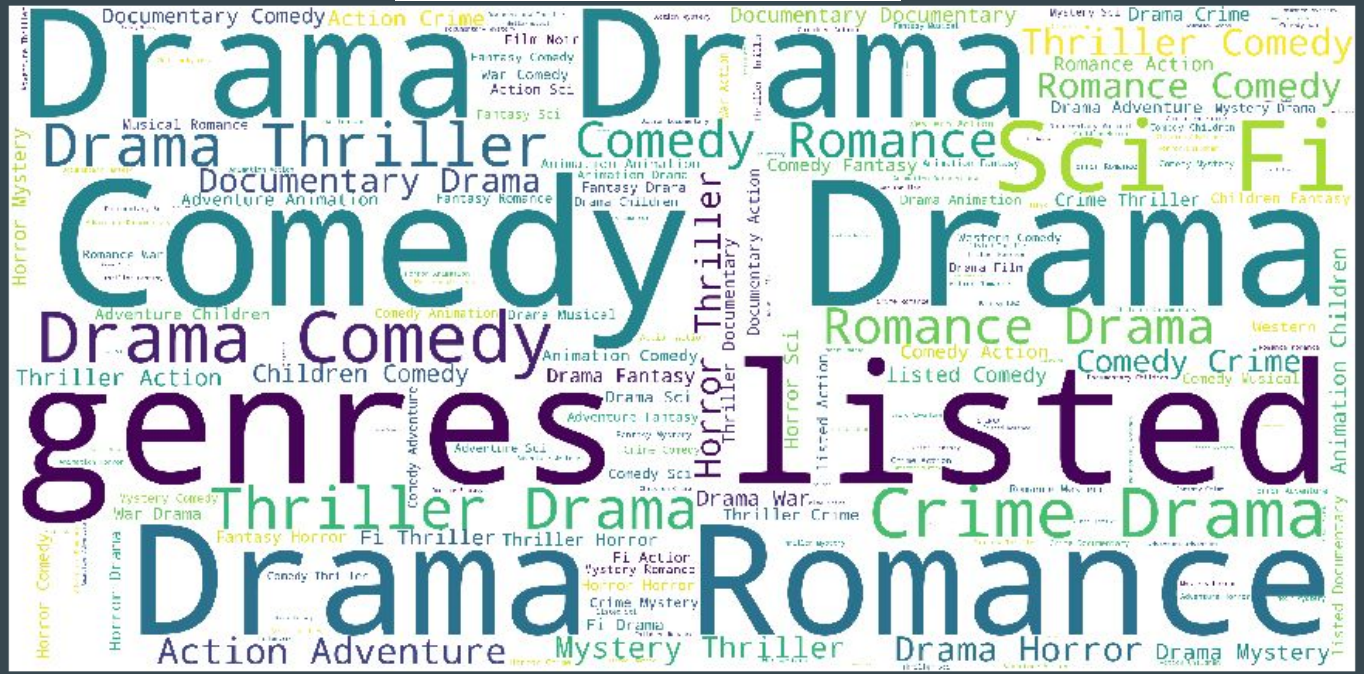
Popular Cast:

Who are the most popular actors?

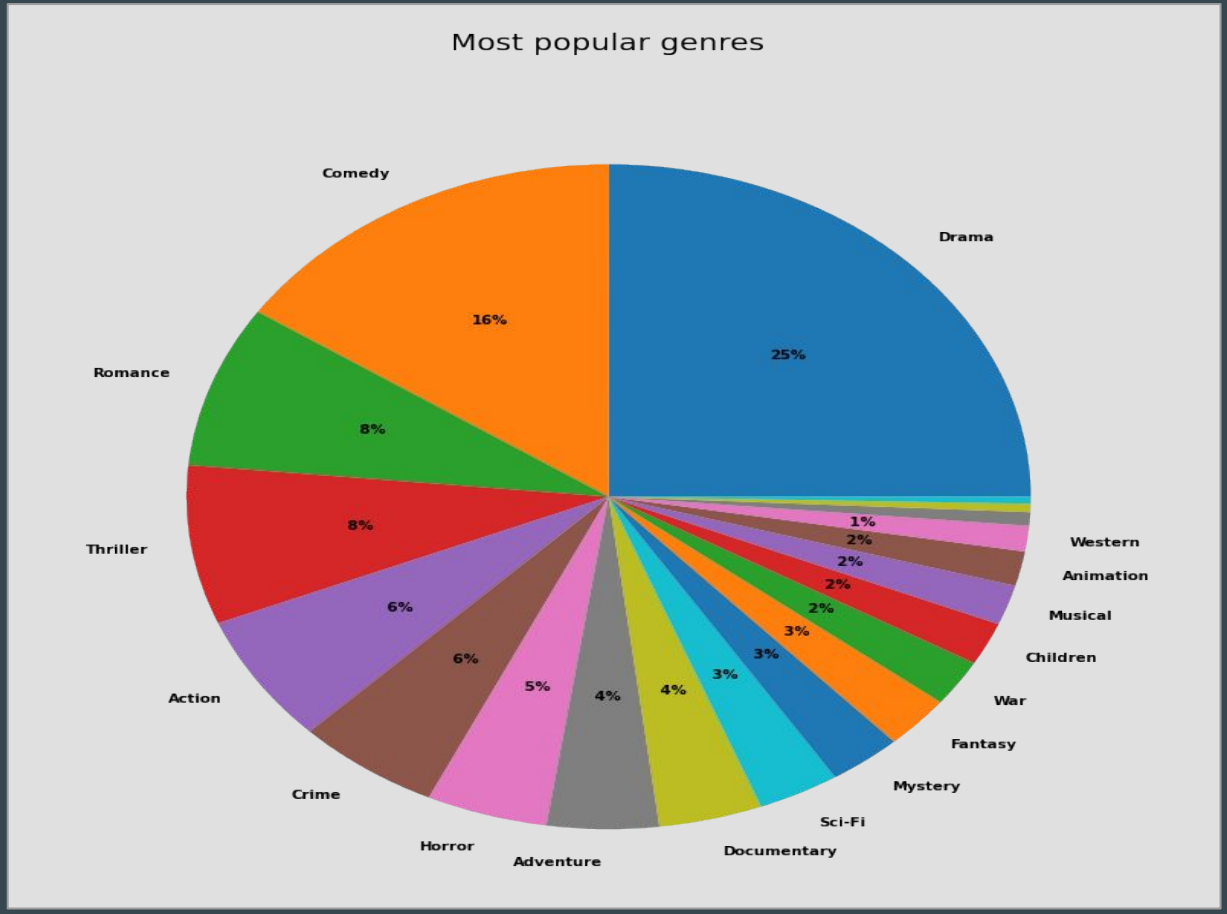


Which genres are found in our dataset?

Word Cloud of Genres



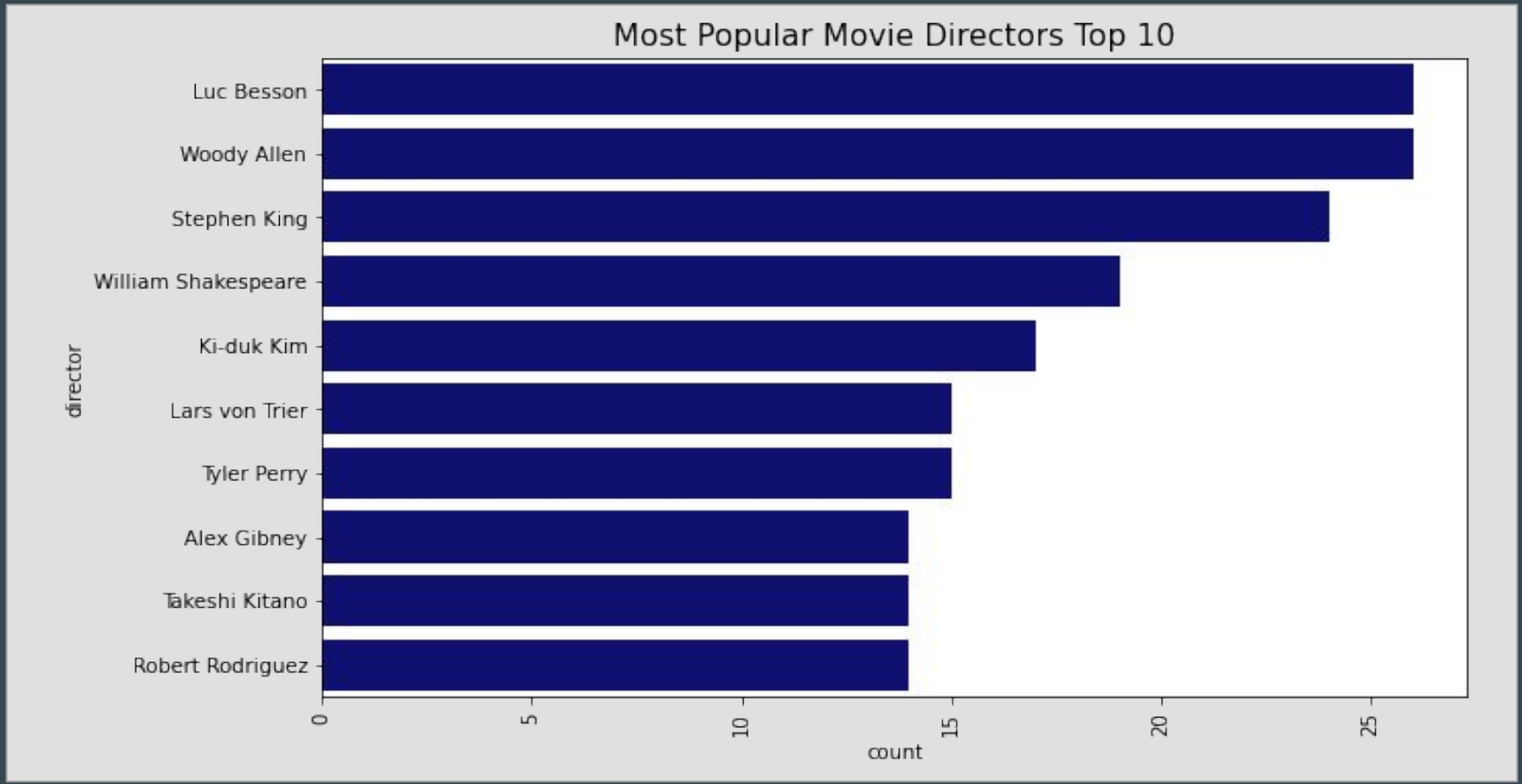
Which genres get the best ratings?



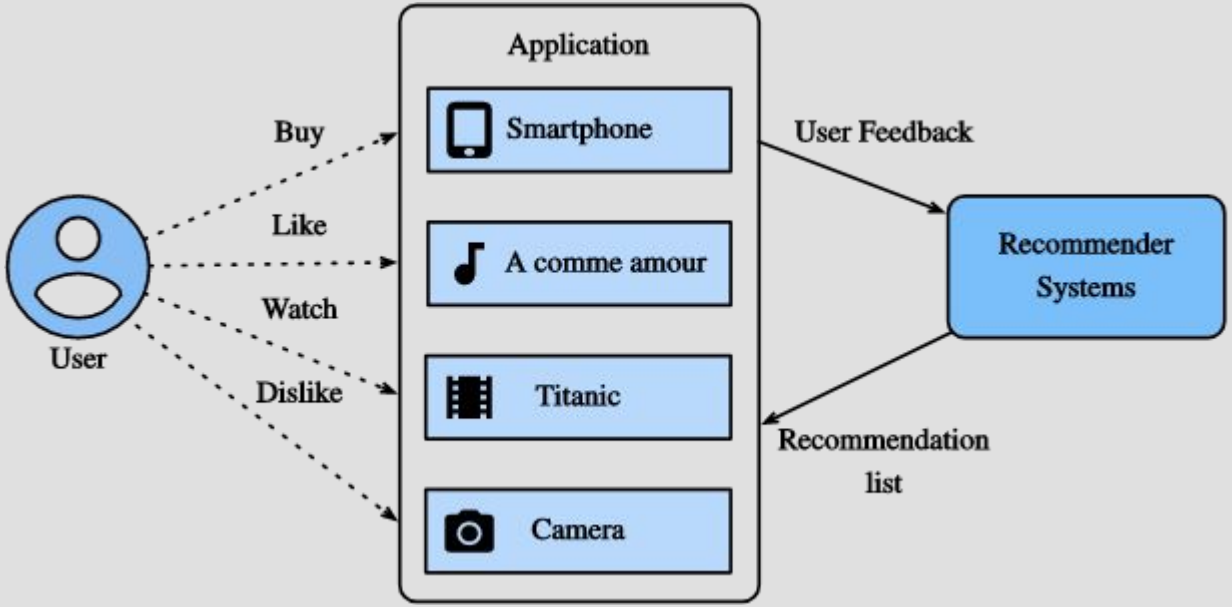
What are the most popular words used in movie titles?

Word cloud for most popular movie titles

Who are the top 10 movie directors?

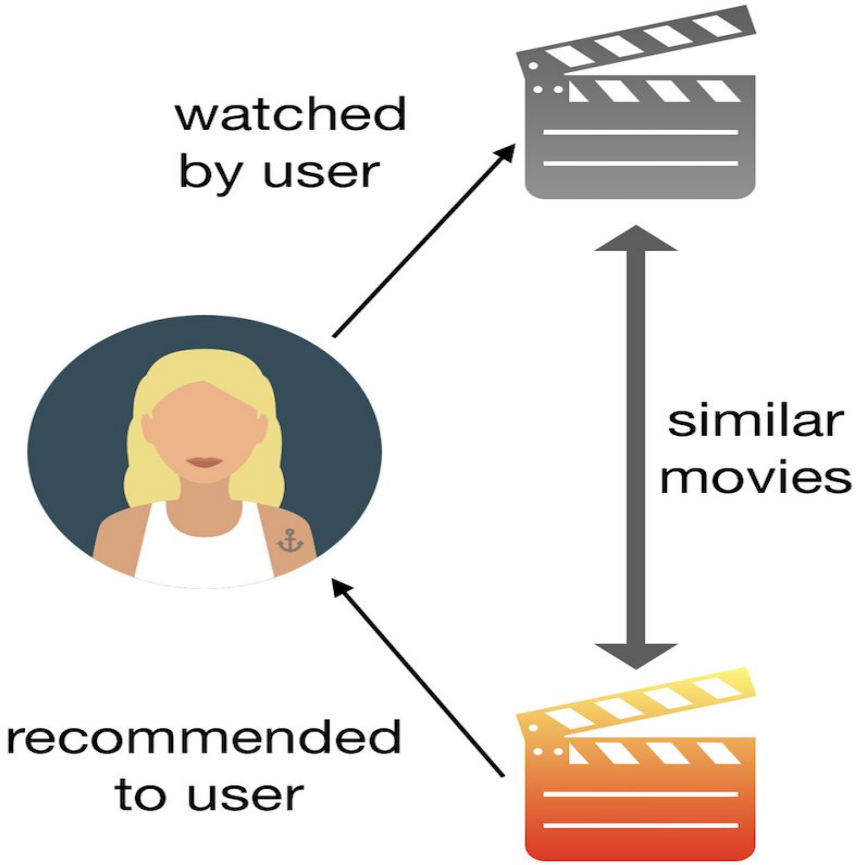


Recommender Systems



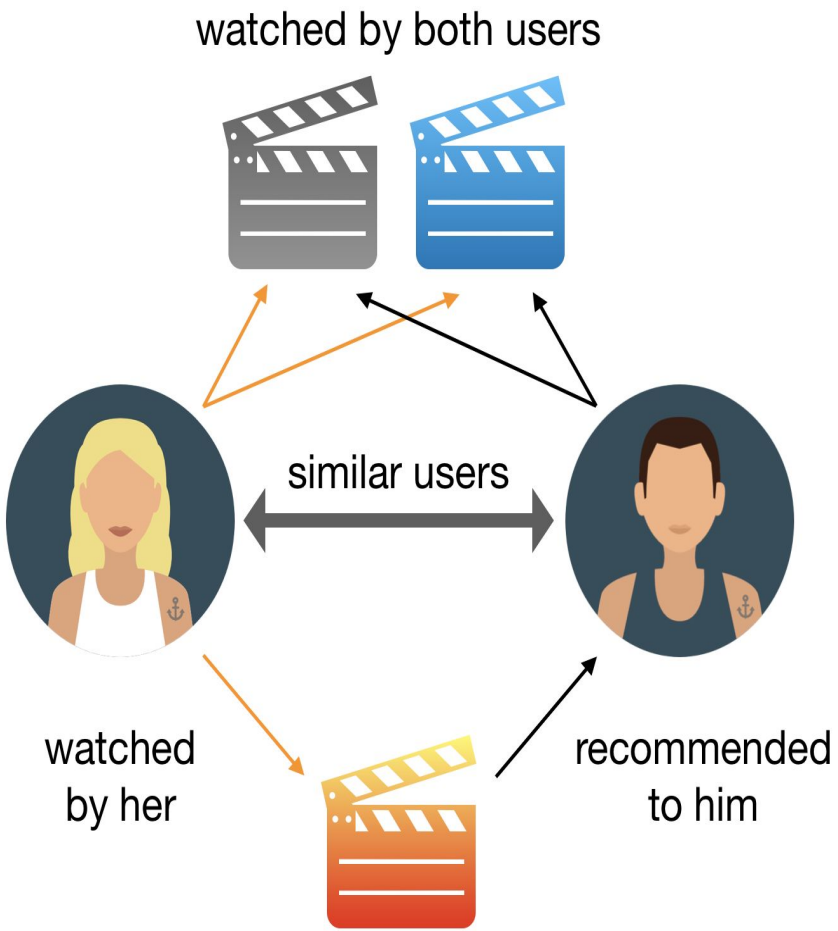
Content based filtering

Content based recommender uses item features to recommend other items similar to what the user likes, based on their previous action or explicit feedback

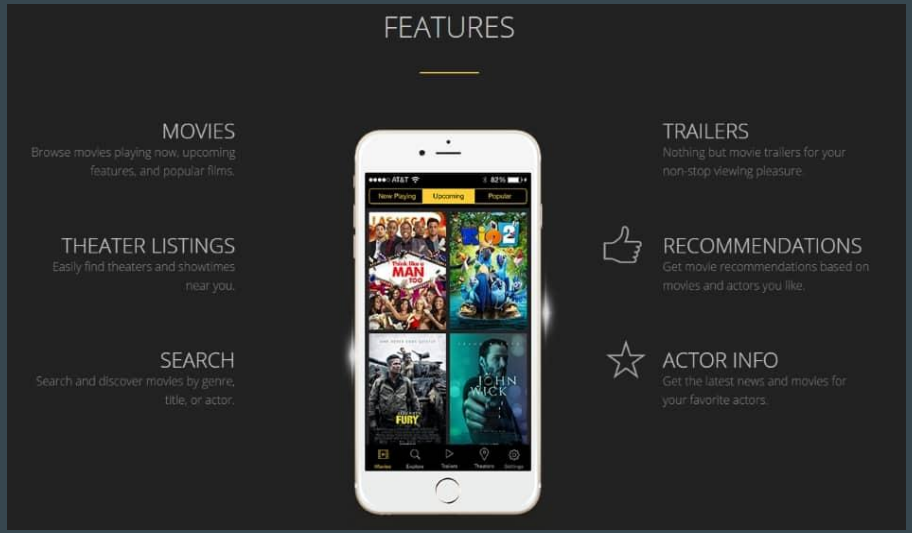


Collaborative based filtering

Collaborative filtering is a method of making automatic predictions(filtering) about the interest of a user by collecting preferences or taste information from many users(collaborating)



App Demo...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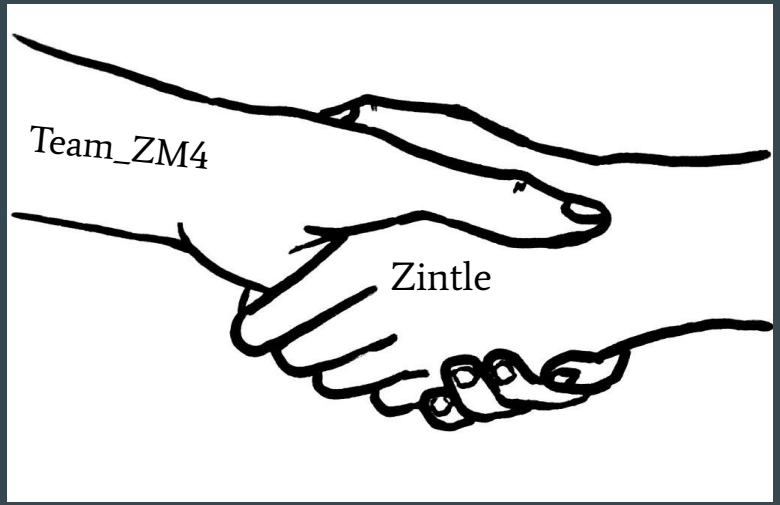
Conclusion:

Grab your popcorn..... ITS MOVIE TIME!!!

Credits:

Special thanks to Zintle, our supervisor for her guidance and support throughout this project.



“If you can’t explain it simply, you don’t understand it well enough.”----------Albert Einstein

Questions?