Providing recommendation solutions for movie streaming platforms.

Meet the Movie Recommenders:

- Thato Bogopane
- Morgan Ndlovu
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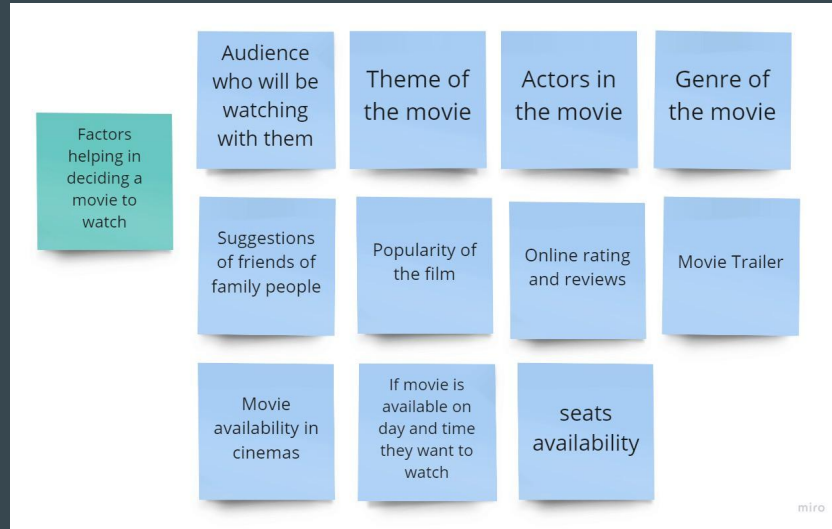- Heperlot Pontso

Supervisor:

- Zintle Faltein-Maqubela

RELIABLE RECOMMENDERS

WEAVING STORIES TOGETHER

The Client

Overview

Introduction:

Factors helping in deciding a movie to watch

- Audience who will be watching with them
- Theme of the movie
- Actors in the movie
- Genre of the movie
- Suggestions of friends of family people
- Popularity of the film
- Online rating and reviews
- Movie Trailer
- Movie availability in cinemas
- If movie is available on day and time they want to watch
- seats availability

miro

- Too much time taken searching through the movies
- Expand Cognitive resources
- Not personal for viewer
- Discouraged to use the movie platform

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
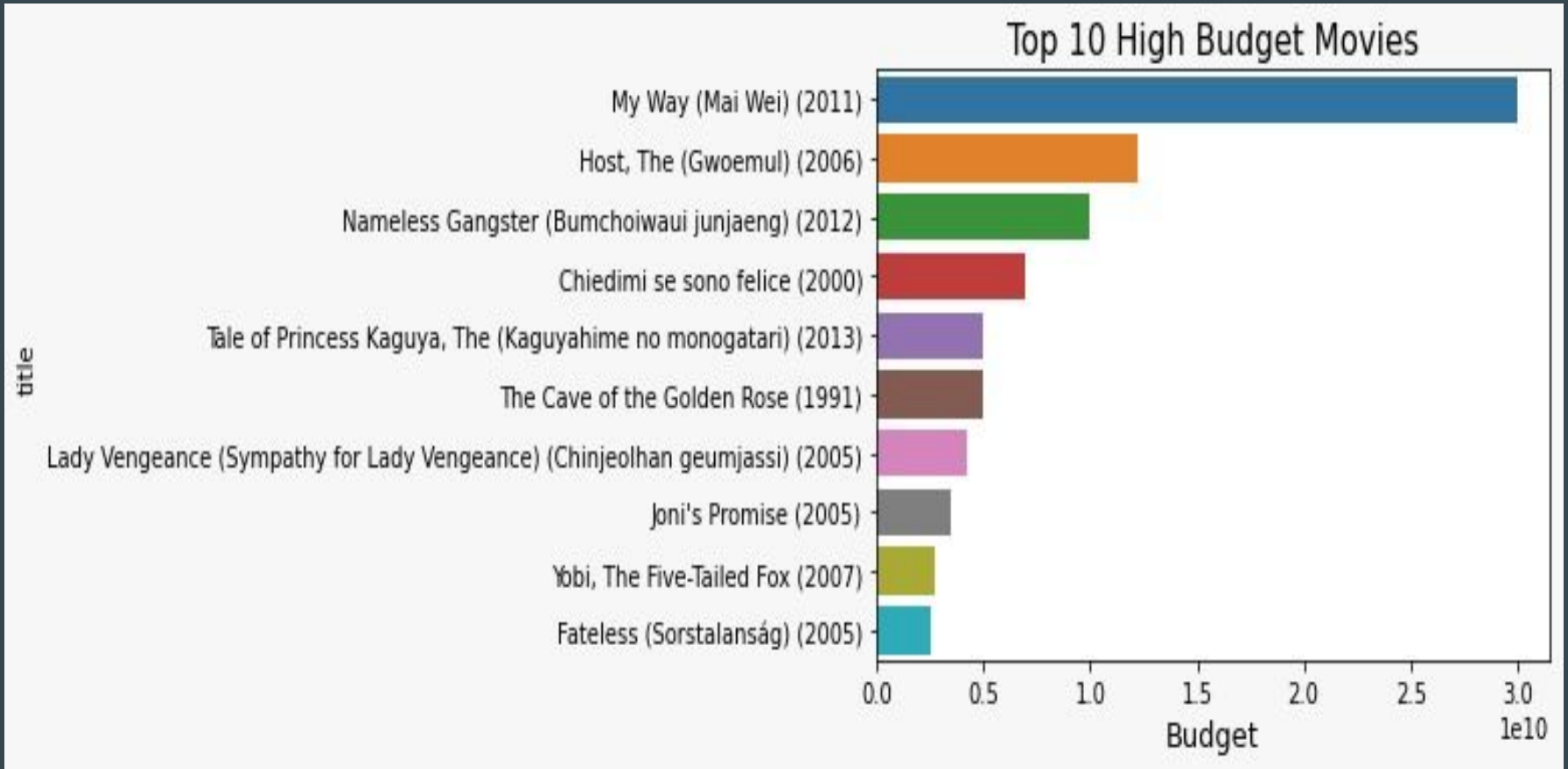
Exploratory Data Analysis

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?
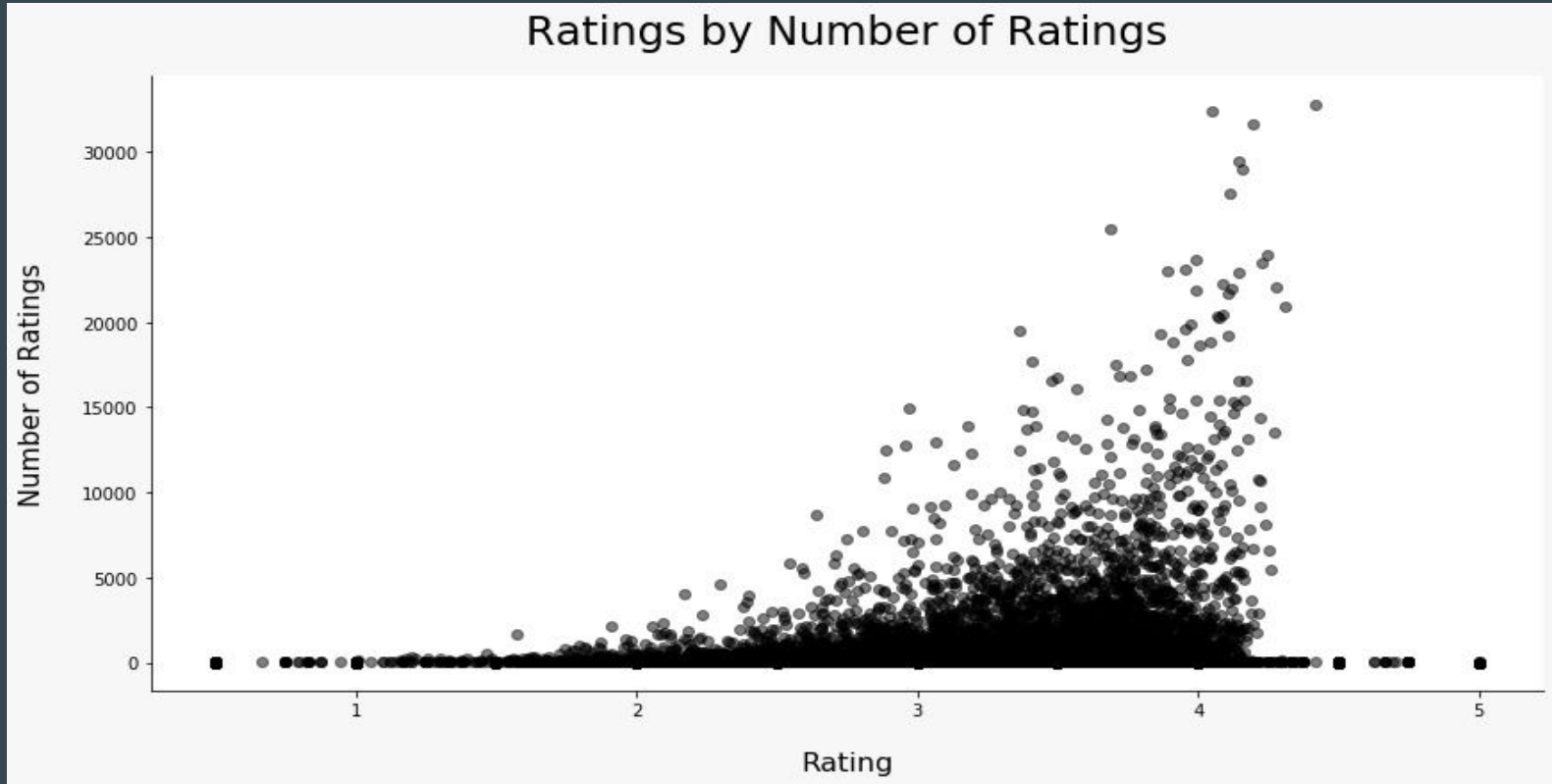
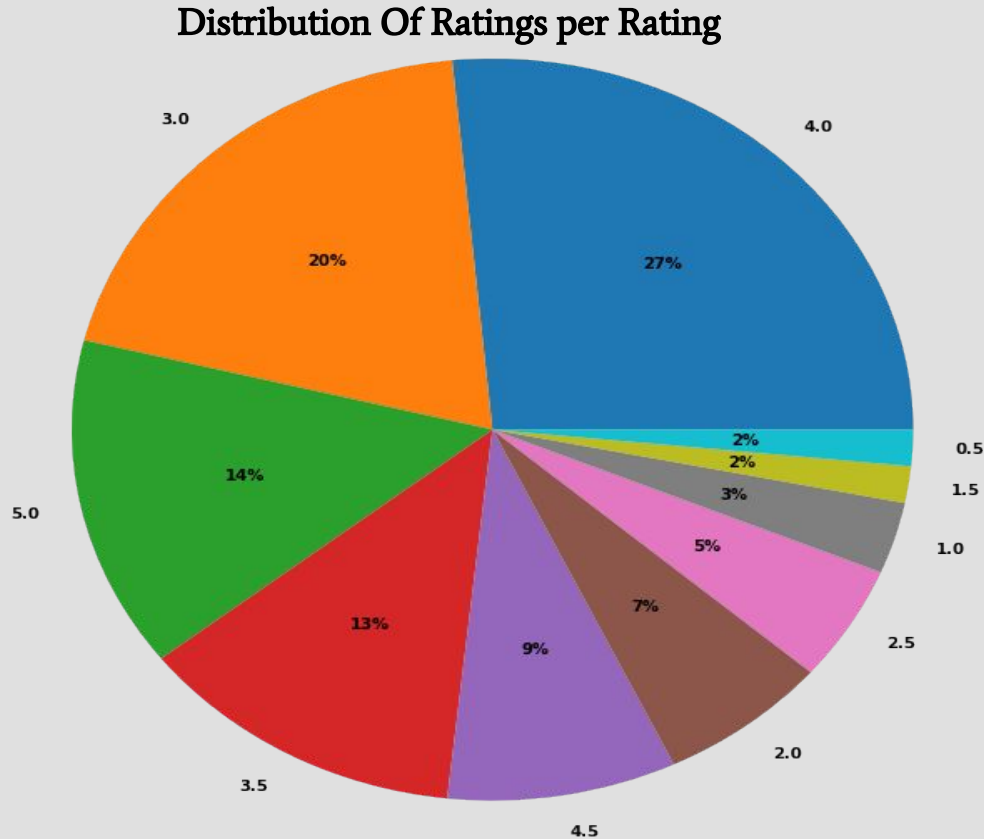

Top 10 High Budget Movies

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

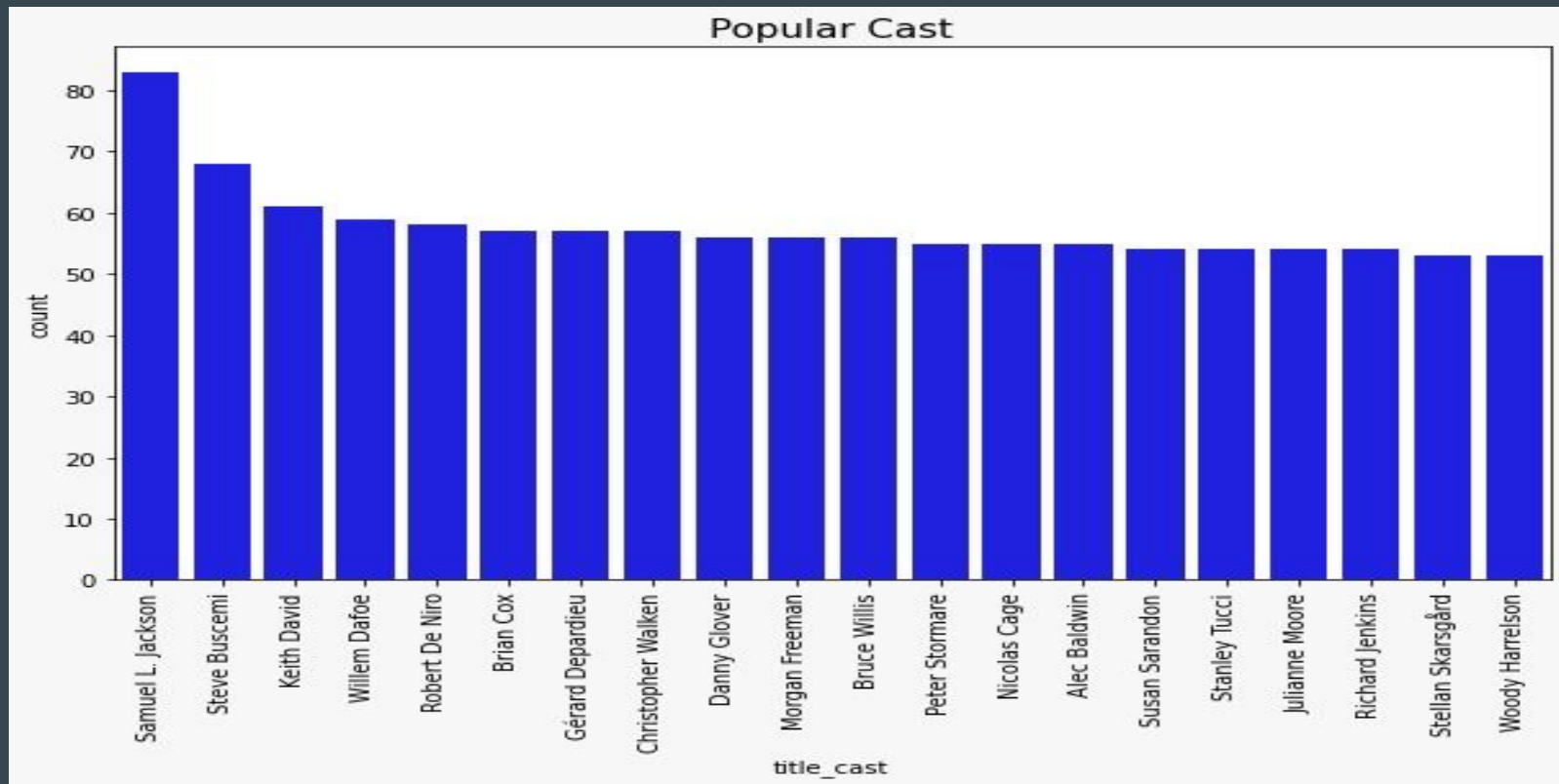# How does the Movies ratings change as more people rate the movie?

Ratings by Number of Ratings

How are the ratings distributed throughout the dataset?

Distribution Of Ratings per Rating

Popular Cast:

Who are the most popular actors?
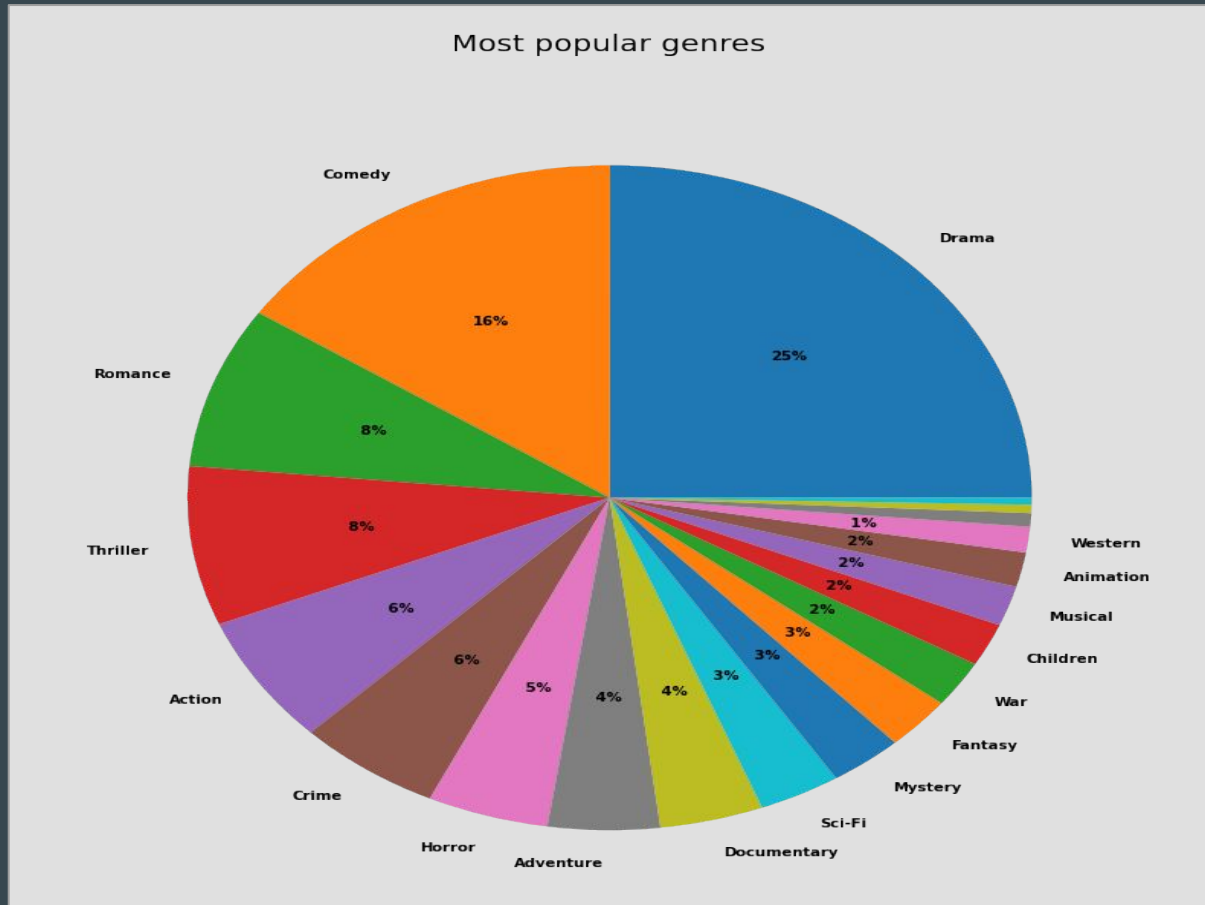
Which genres are found in our dataset?
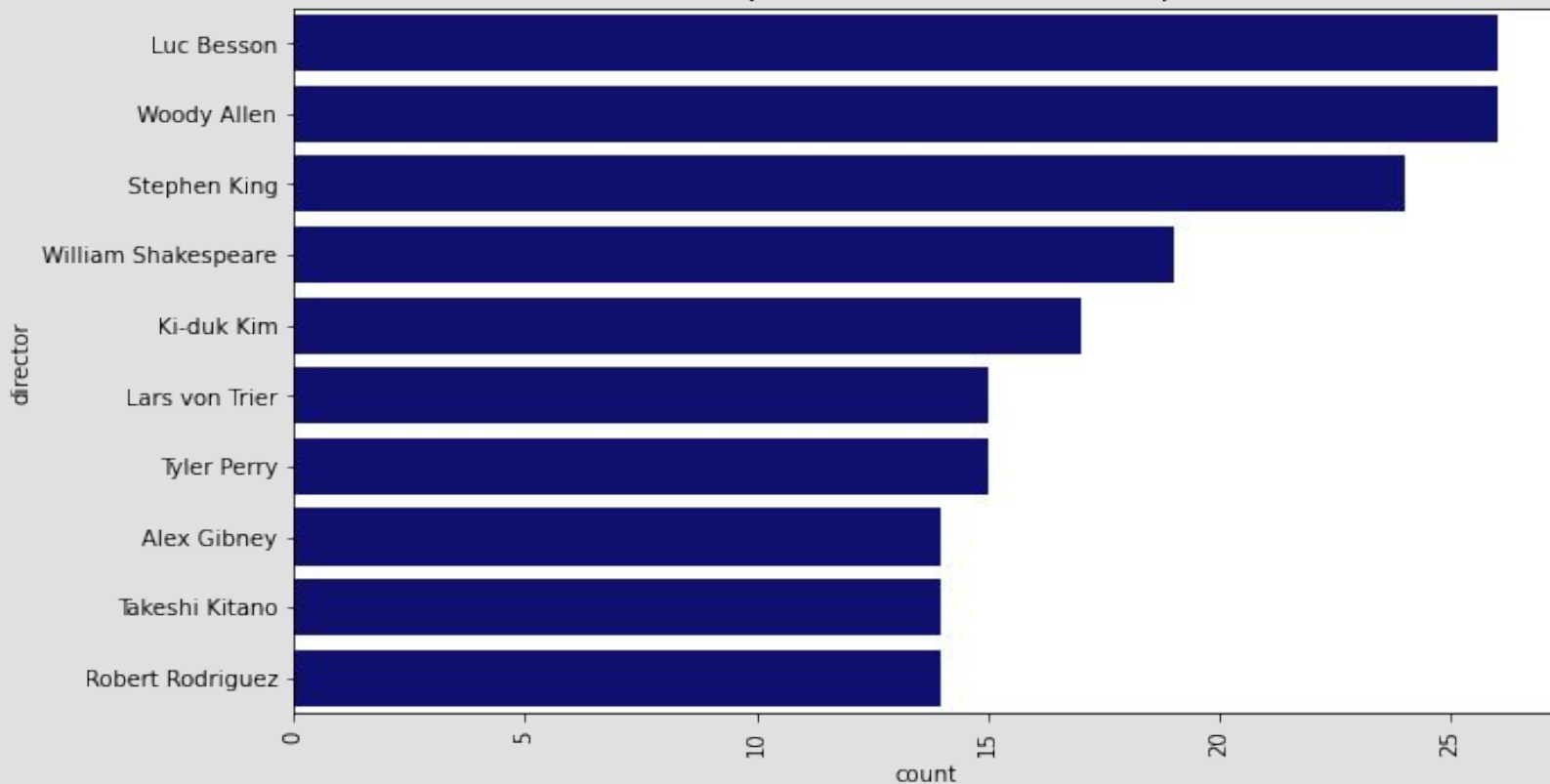
Word Cloud of Genres

Which genres get the best ratings?

Most popular genres

- Drama 25%
- Comedy 16%
- Romance 8%
- Thriller 8%
- Action 6%
- Crime 6%
- Horror 5%
- Adventure 4%
- Documentary 4%
- Sci-Fi 3%
- Mystery 3%
- Fantasy 3%
- War 2%
- Children 2%
- Musical 2%
- Animation 2%
- Western 1%

What are the most popular words used in movie titles?

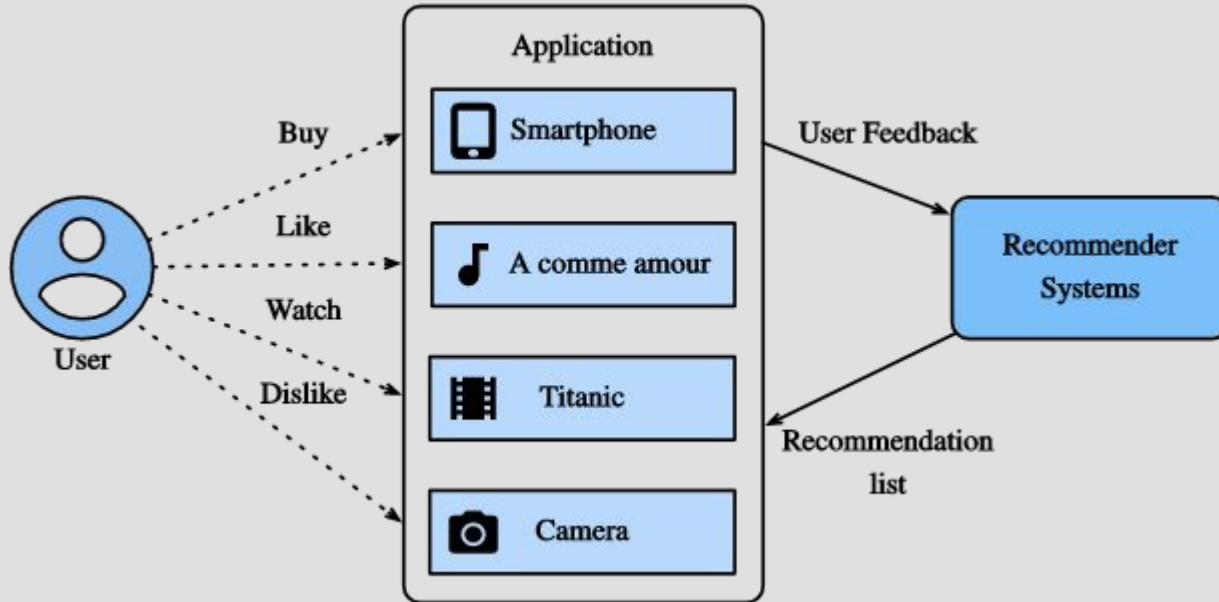Word cloud for most popular movie titles

Who are the top 10 movie directors?
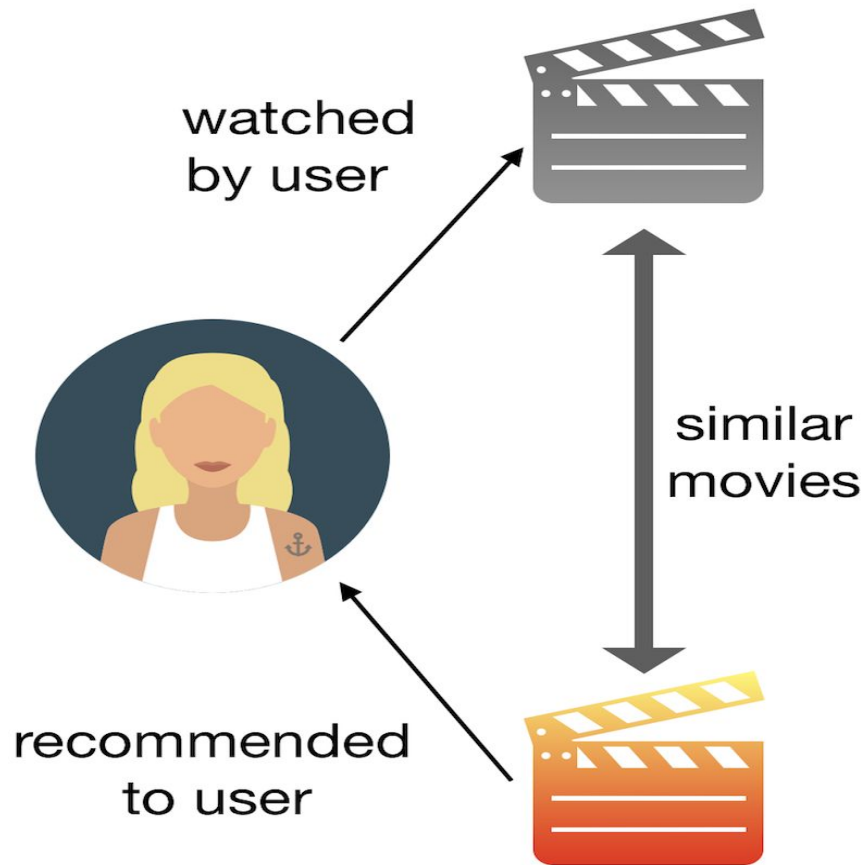

Most Popular Movie Directors Top 10
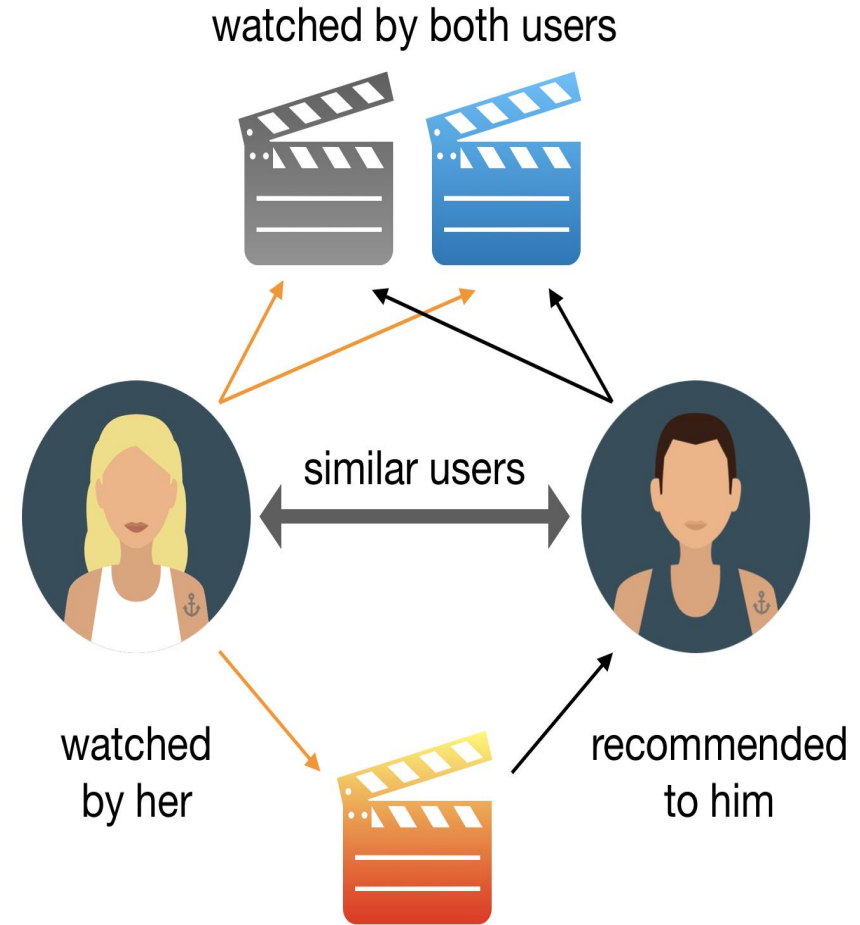
Recommender Systems

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)

watched by both users

similar users

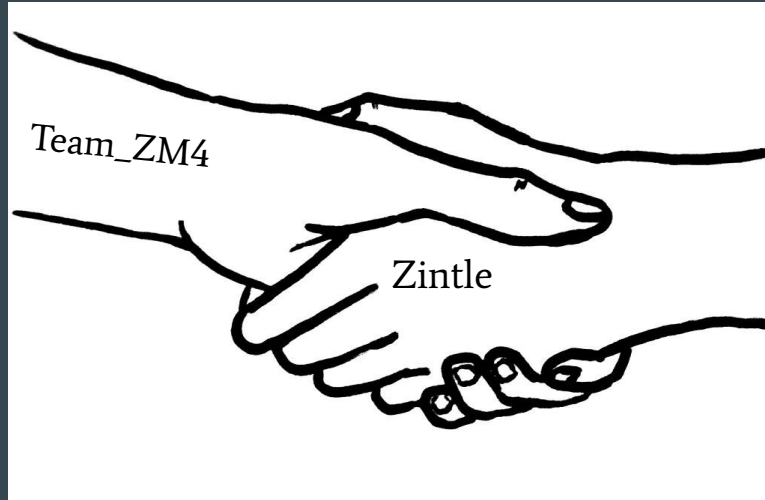watched by her

recommended to him

App Demo...

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

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https://github.com/KeletsoPule-dev/unsupervised-predict-streamlit-template

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