



S C R E E N L O T  
— FOR YOUR VIEWING PLEASURE —

A movie recommendation system that uses your historical preferences data to accurately predict movies you would enjoy.

# ABOUT DATA PORT INCORPORATED



Data Port Inc.

Data port incorporated are the developers of screenlot as an application. The name “Screenlot”, it's logo and software are proprietary products and are all registered to Dataport inc.

## OUR TEAM



**PRINCE OKON**  
Team lead



**DANIEL ODUKOYA**  
Administrator



**HUZAIFA ABU**  
Technical Lead



**IRIRI JERRY**  
Chief Designer



**IZUNNA ENEUDE**  
Quality Control

**Our development team is a group of professionals in Administration, Business Management and the technical side of product development.**

# CONTENT OF PRESENTATION

01 **Introduction**

04 **EDA / Data Engineering**

02 **Problem**

05 **Models Exploration**

03 **Solution**

06 **Conclusion**

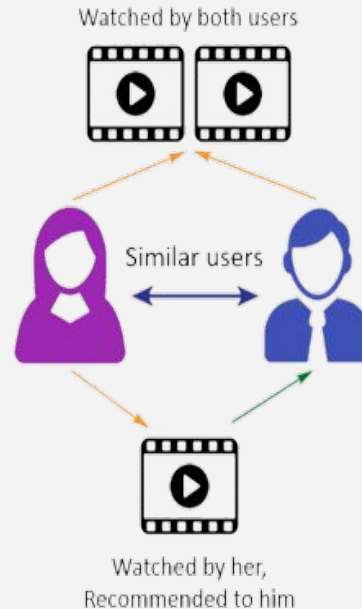
# INTRODUCTION

- Definition of Recommendation systems.

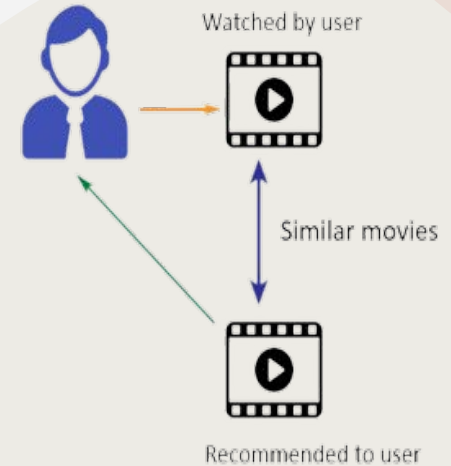
## Types

- Collaborative filtering
- Content based filtering

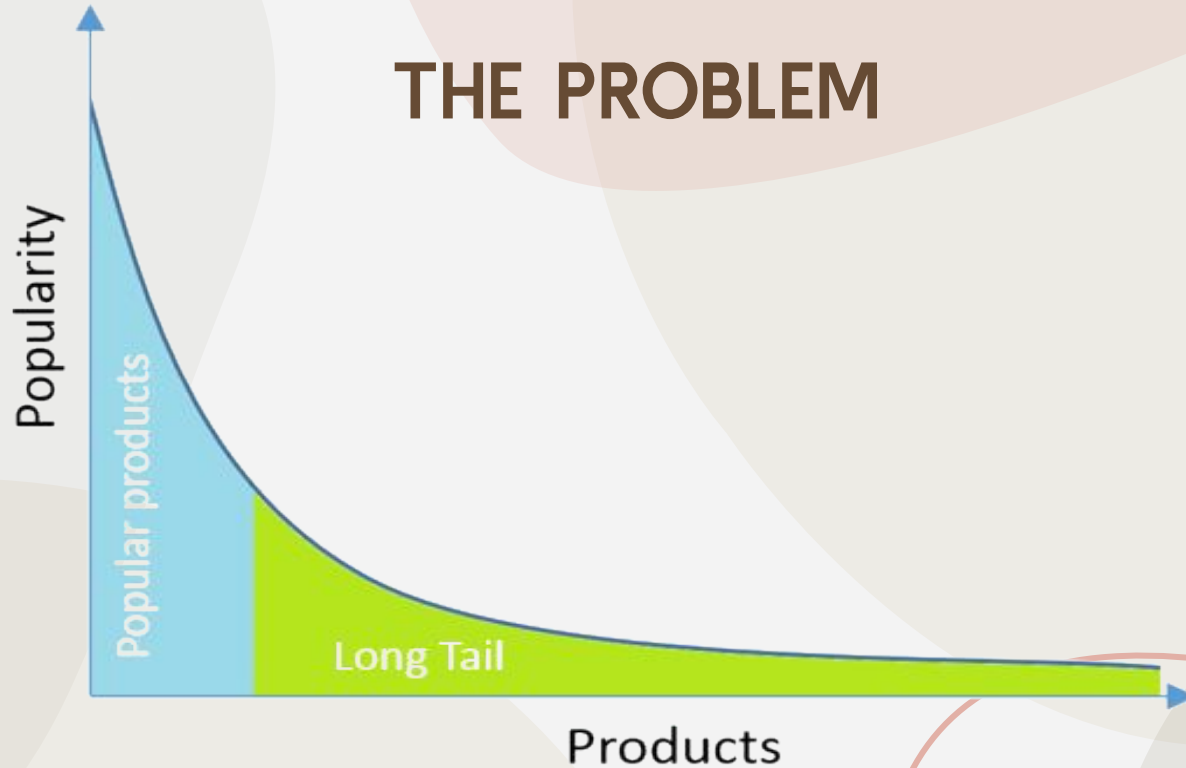
### Collaborative Filtering



### Content-Based Filtering

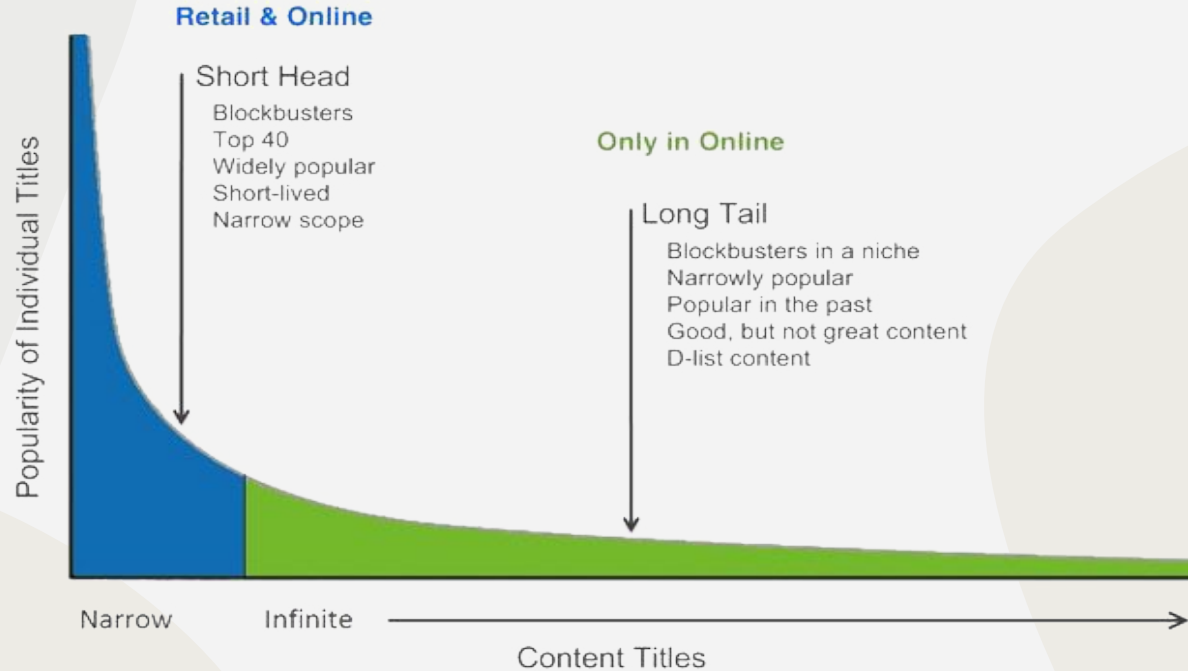


# THE PROBLEM



In business, many customers tend to desire low volumes of Items that are relatively unpopular. This phenomenon is known as the long tail.

# SOLUTION



A movie recommendation algorithm that makes accurate predictions of a user's movie preferences from historical choices

# Exploratory Data Analysis (EDA) Features

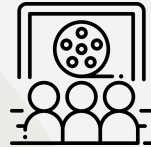
**USER RATINGS**



**MOVIES**



**GENRES**



**DIRECTORS**



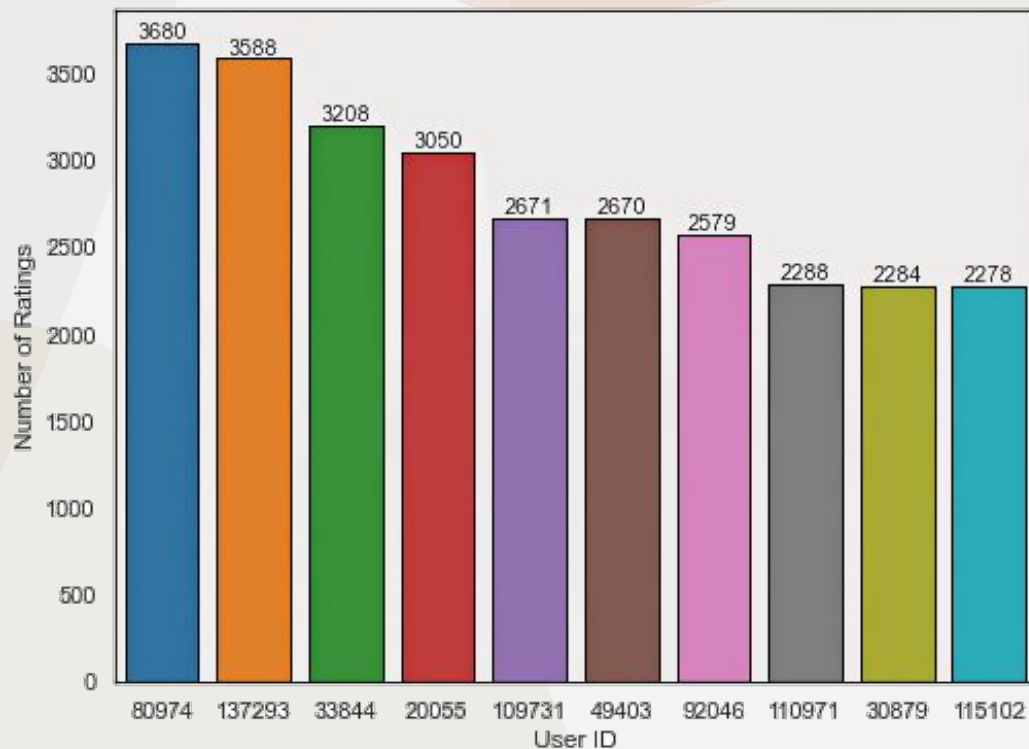




## USER RATINGS



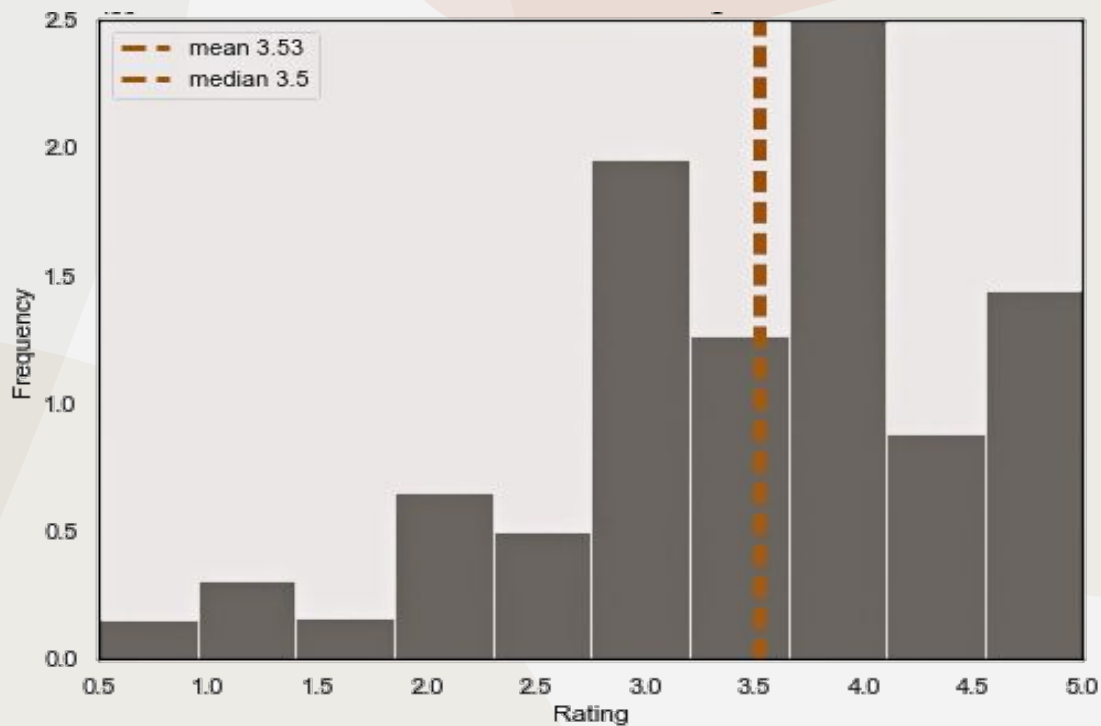
## TOP USER RATINGS





## USER RATINGS

# DISTRIBUTION OF USER RATINGS

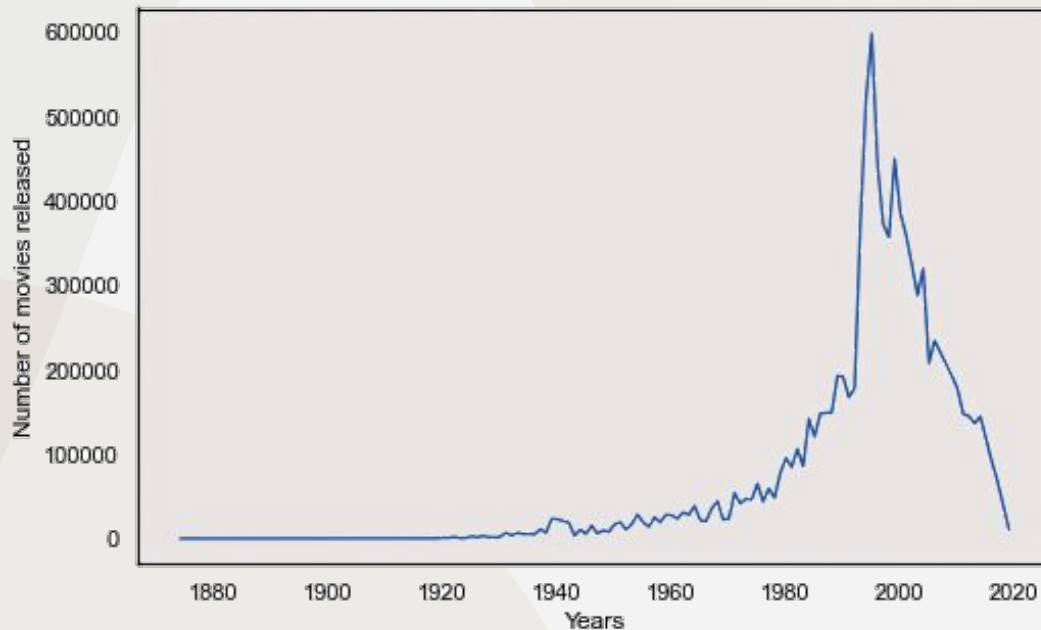




## MOVIES



# MOVIES RELEASED PER YEAR





## MOVIES



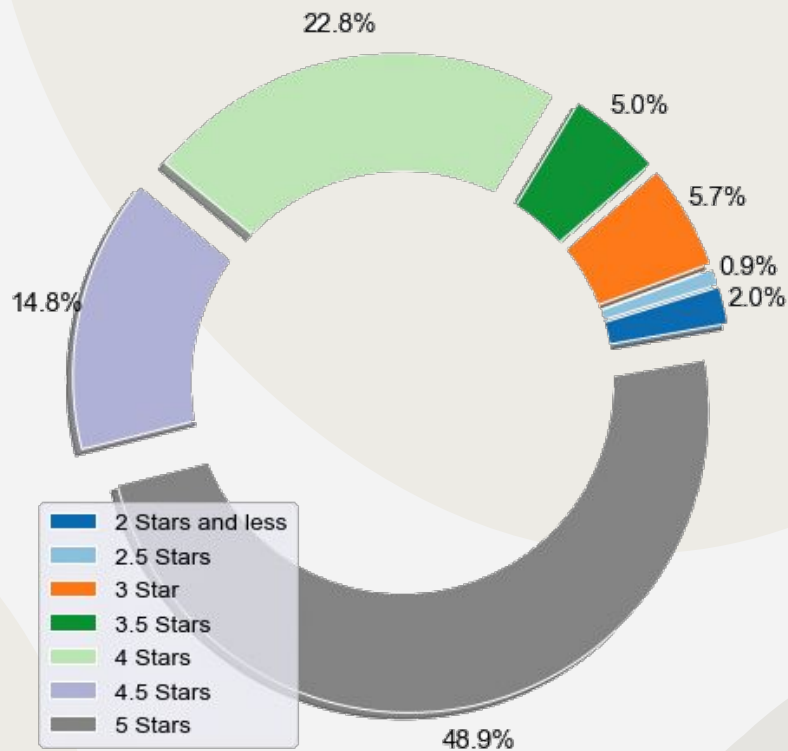
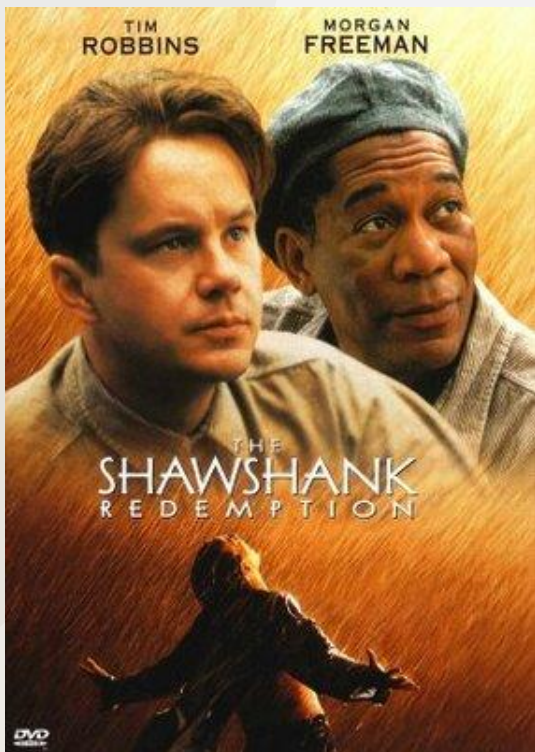
## MOVIES RATINGS

	rating	rating_counts	popularity
title			
Shawshank Redemption, The (1994)	4.417624	32831	145035.0
Pulp Fiction (1994)	4.195097	31697	132972.0
Forrest Gump (1994)	4.047216	32383	131061.0
Silence of the Lambs, The (1991)	4.144172	29444	122021.0
Matrix, The (1999)	4.154253	29014	120531.5



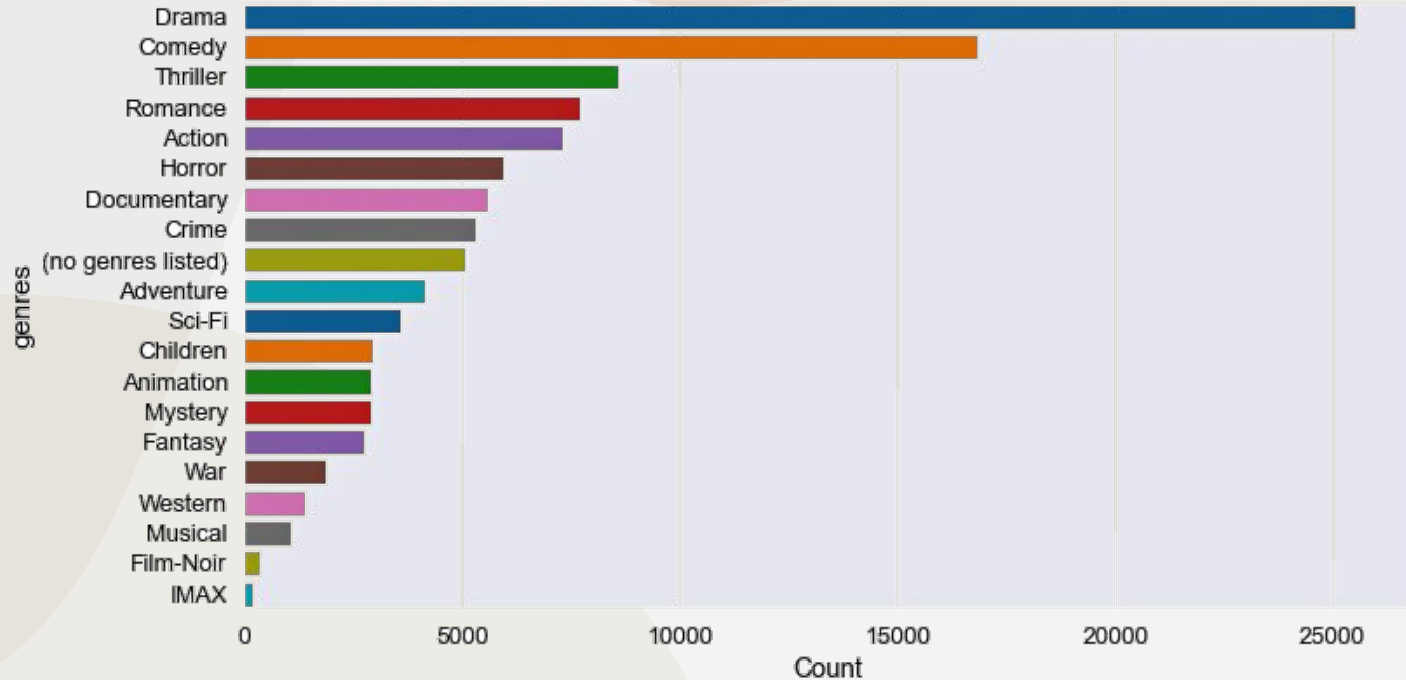
## MOVIES

### HIGHEST RATED MOVIE



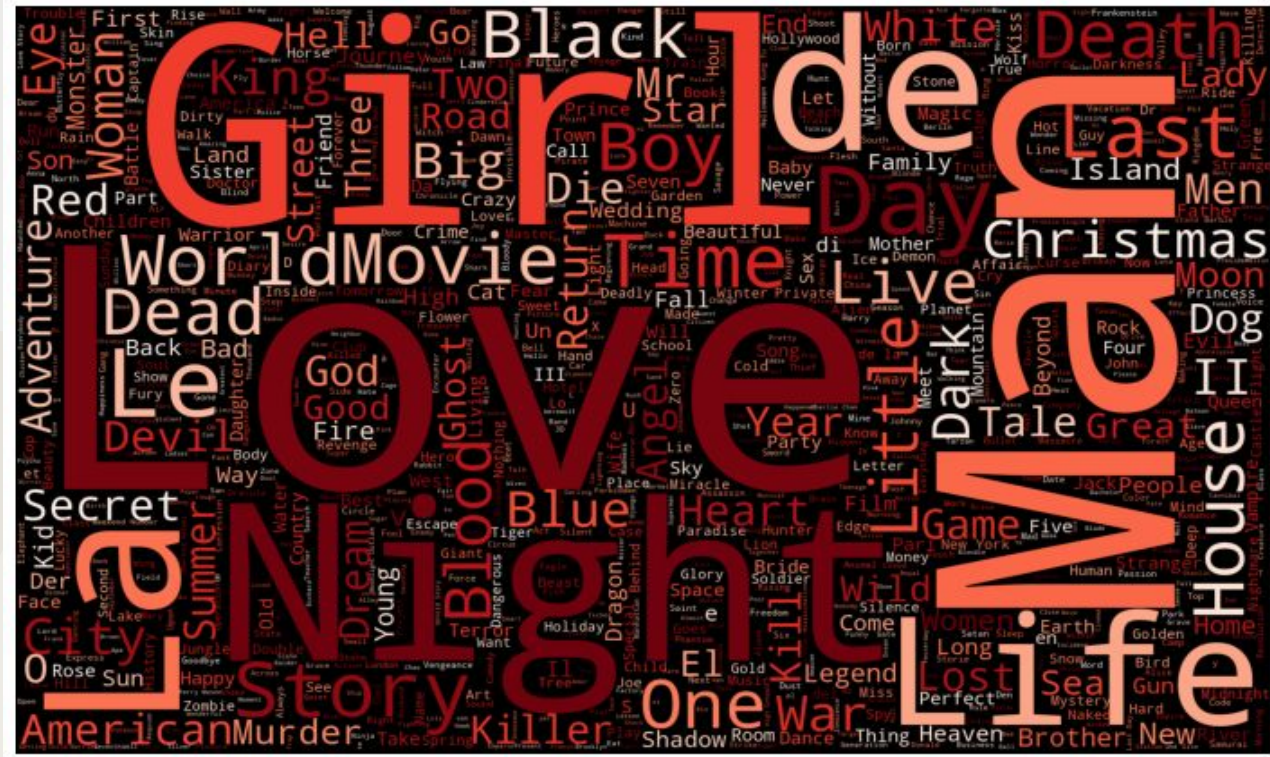


## NUMBER OF MOVIES PER GENRE





## WORD CLOUD SHOWING RATED MOVIES BY GENRE

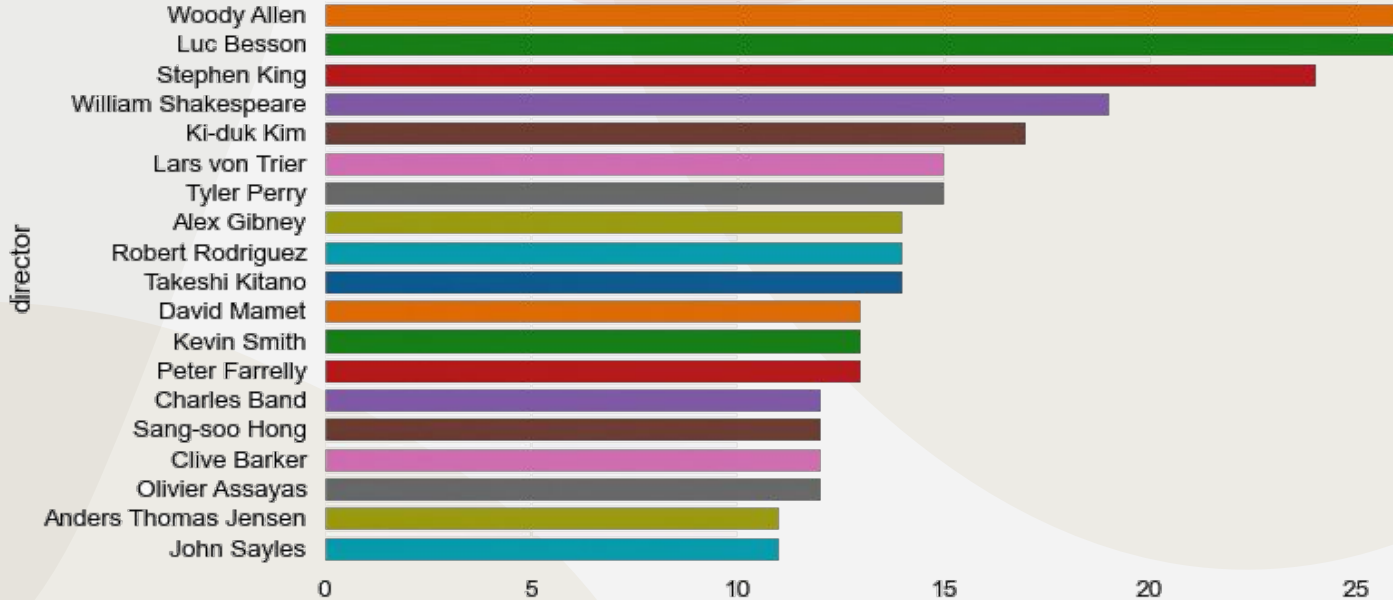




## DIRECTORS



## MOVIE COUNT BY DIRECTORS



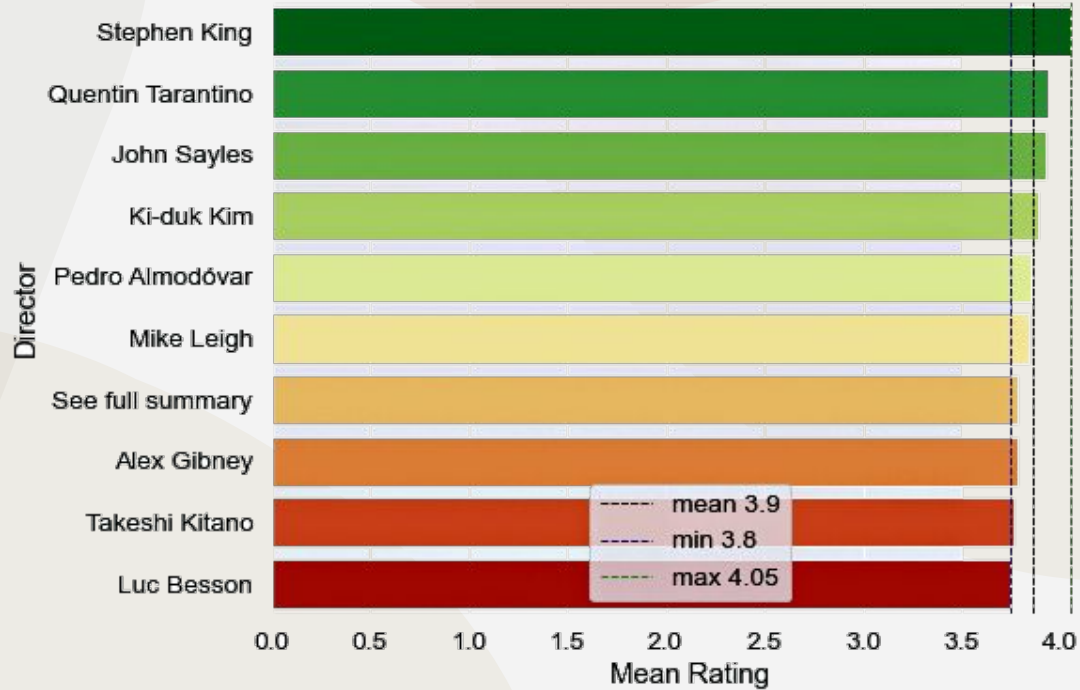




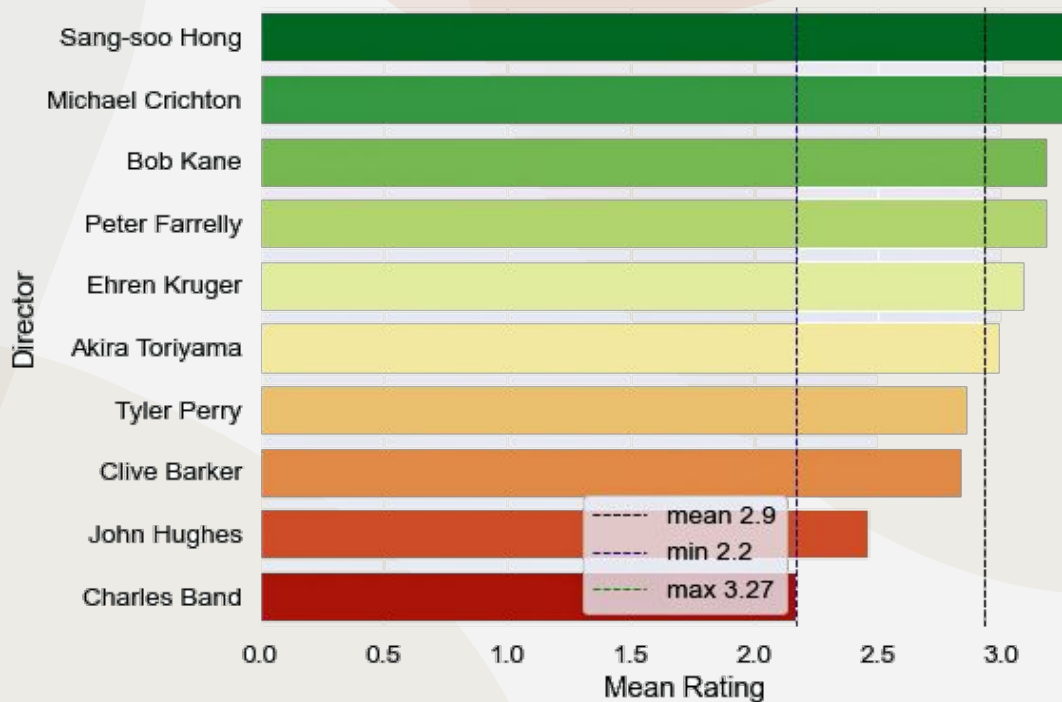
## DIRECTORS



## HIGH RATINGS



## LOW RATINGS



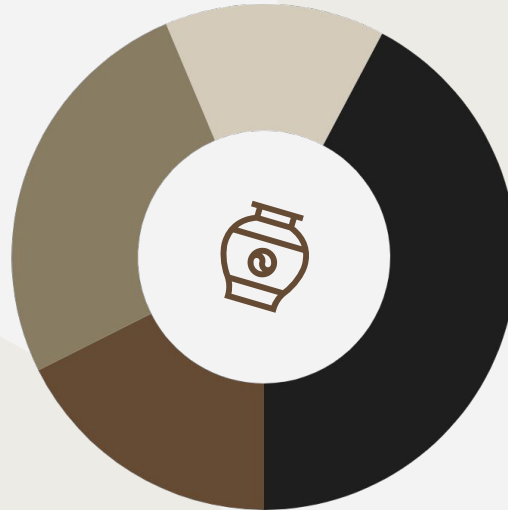
# MODEL BUILDING

MULTIDIMENSIONAL  
SCALING

PRINCIPAL COMPONENT  
ANALYSIS

TSNE (T stochastic  
neighbor Embedding)

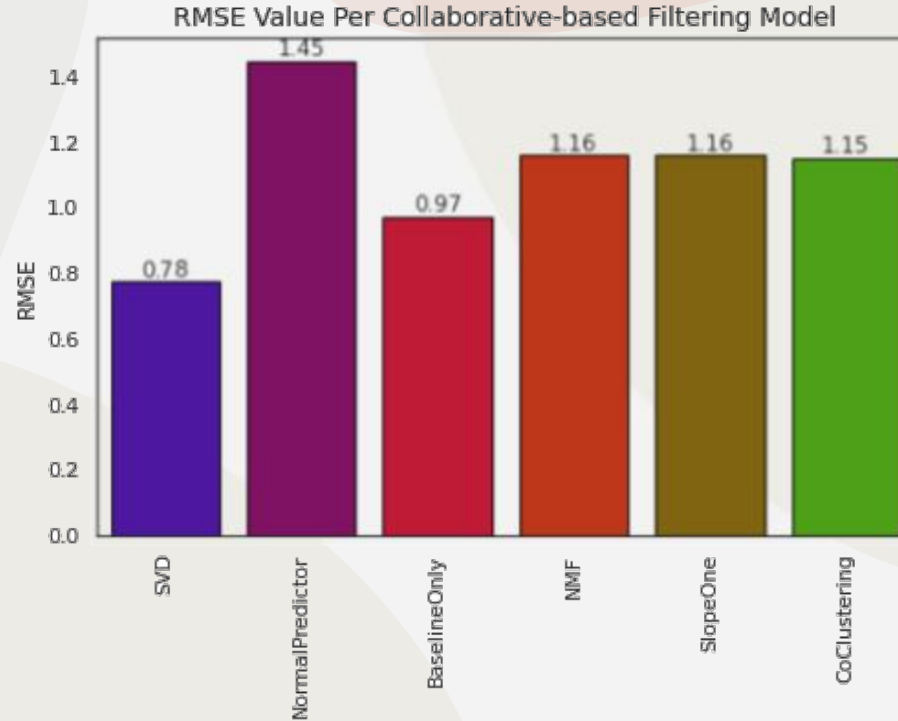
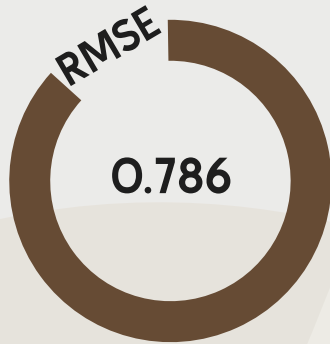
MODEL FITTING



# CROSS VALIDATION

- Why we carry out cross validation
- The K-fold cross validation / Hyperparameter settings used.

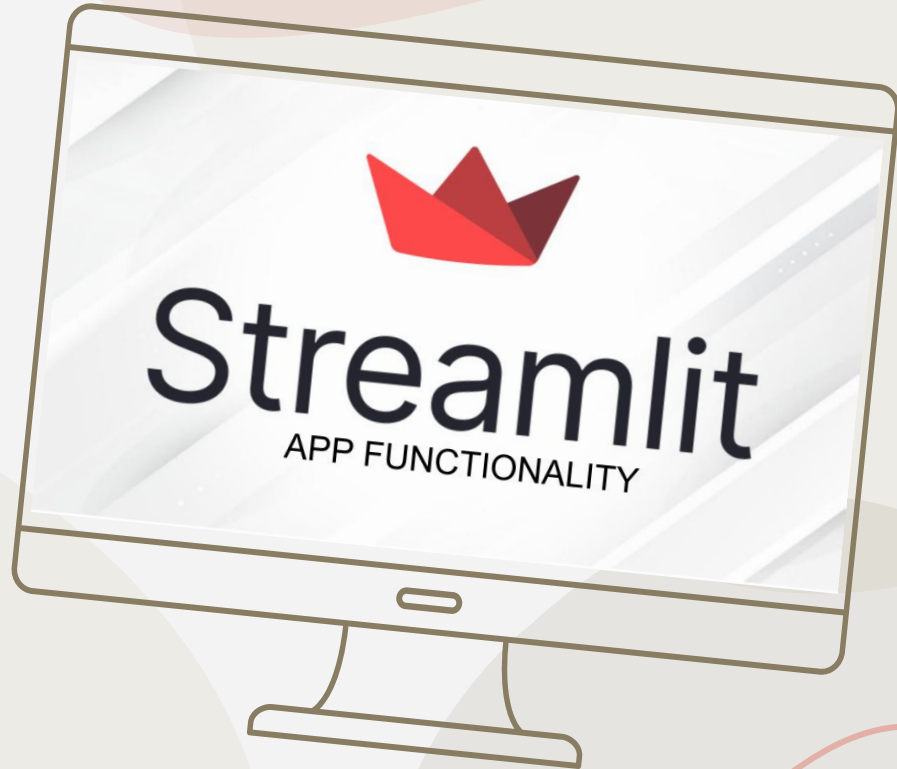
# MODEL PERFORMANCE EVALUATION



# STREAMLIT DEPLOYMENT

## SCREEN LOT WEB APP

Our user-friendly app,  
recommend movies and  
explore data insights.



# CONCLUSION

- **Screenlot is a top-notch Movie recommender solution, Why?**
- **User-friendly**
- **Saves time**
- **Excellent and hassle-free Movie recommendation**
- **Drastically improve profit for businesses**

# WHY CHOOSE SCREENLOT?

There are hordes of Recommender systems out there but we stand out because;

- **Data Source**
- **Regular updates.**
- **Active feedback implement**
- **Customization Options**



# QUESTIONS AND COMMENTS



THANK YOU!

