

Rate 5, Get 5

Movie Recommendations

Presented by Leana Critchell, Dann Morr and Jacob Prebys



Our Aim

- Implement unsupervised machine learning models
- Create a user-friendly, interactive rating platform
- Provide great movie recommendations to movie-lovers

Our Data

groupLens

UNIVERSITY OF MINNESOTA



movielens

100,000 ratings

9,000 titles

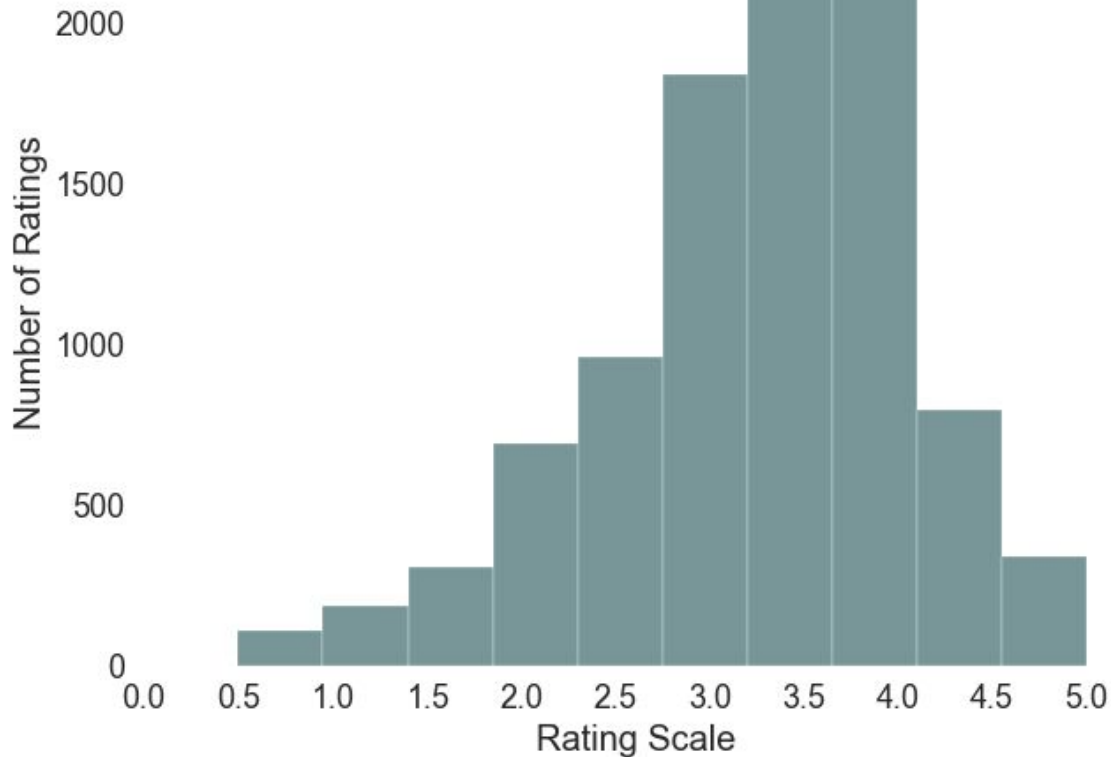
600 users

EDA:

Distribution of Ratings



Distribution of Ratings



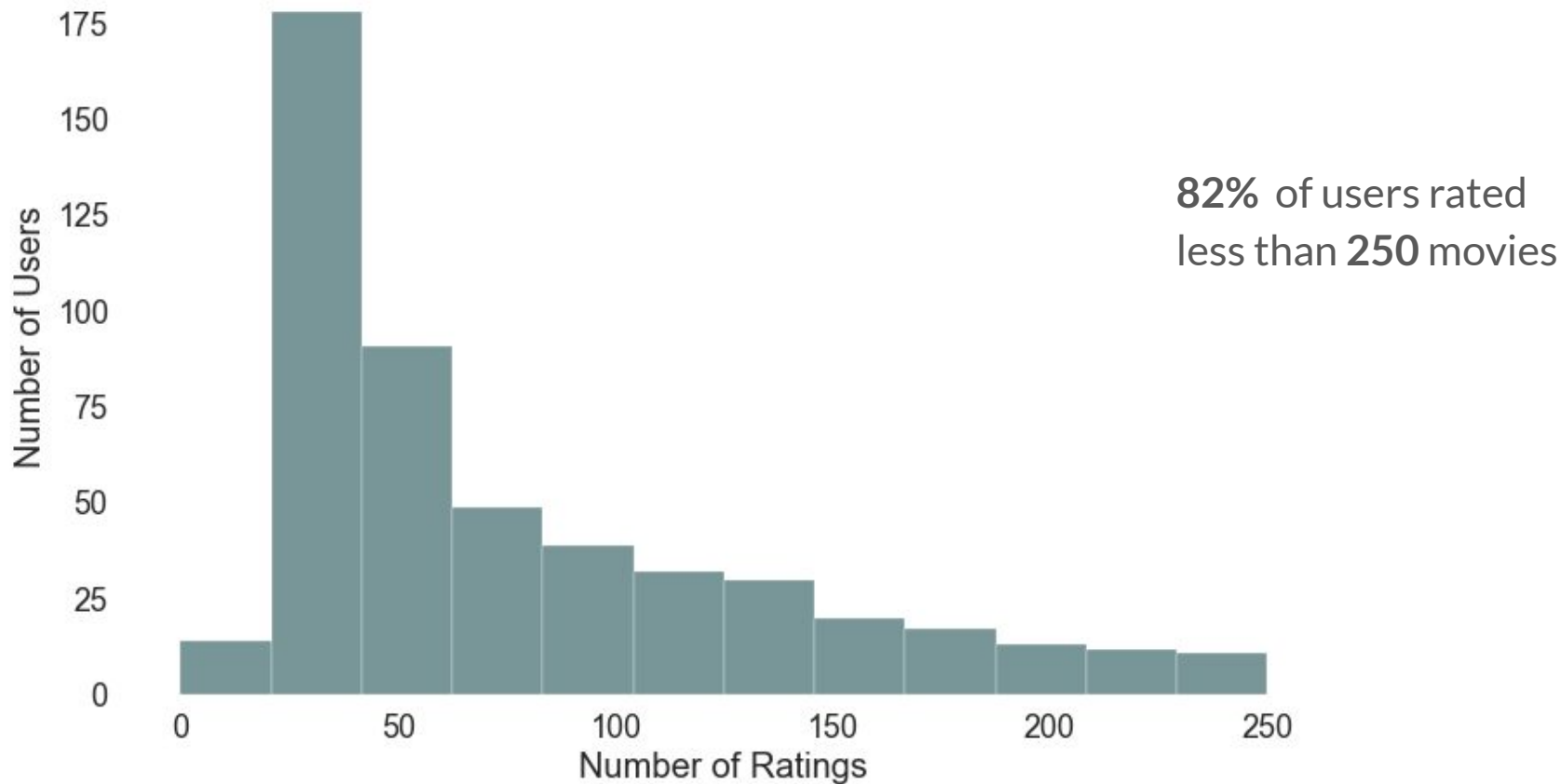
Average rating: **3.5**

EDA:

Long Tail Problem: Users



Long Tail Problem: Number of Ratings per User

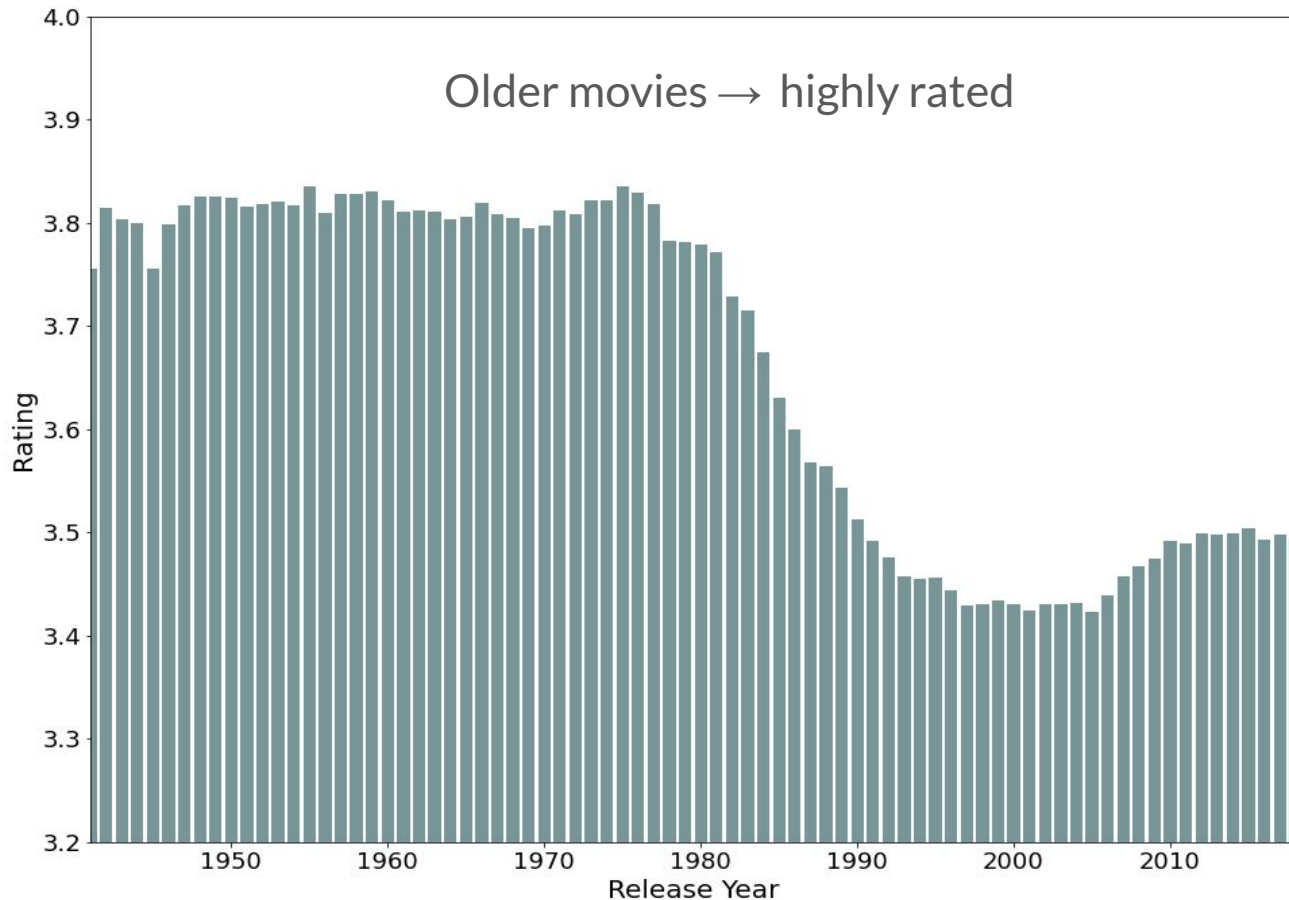


EDA:

Release Date Time Series



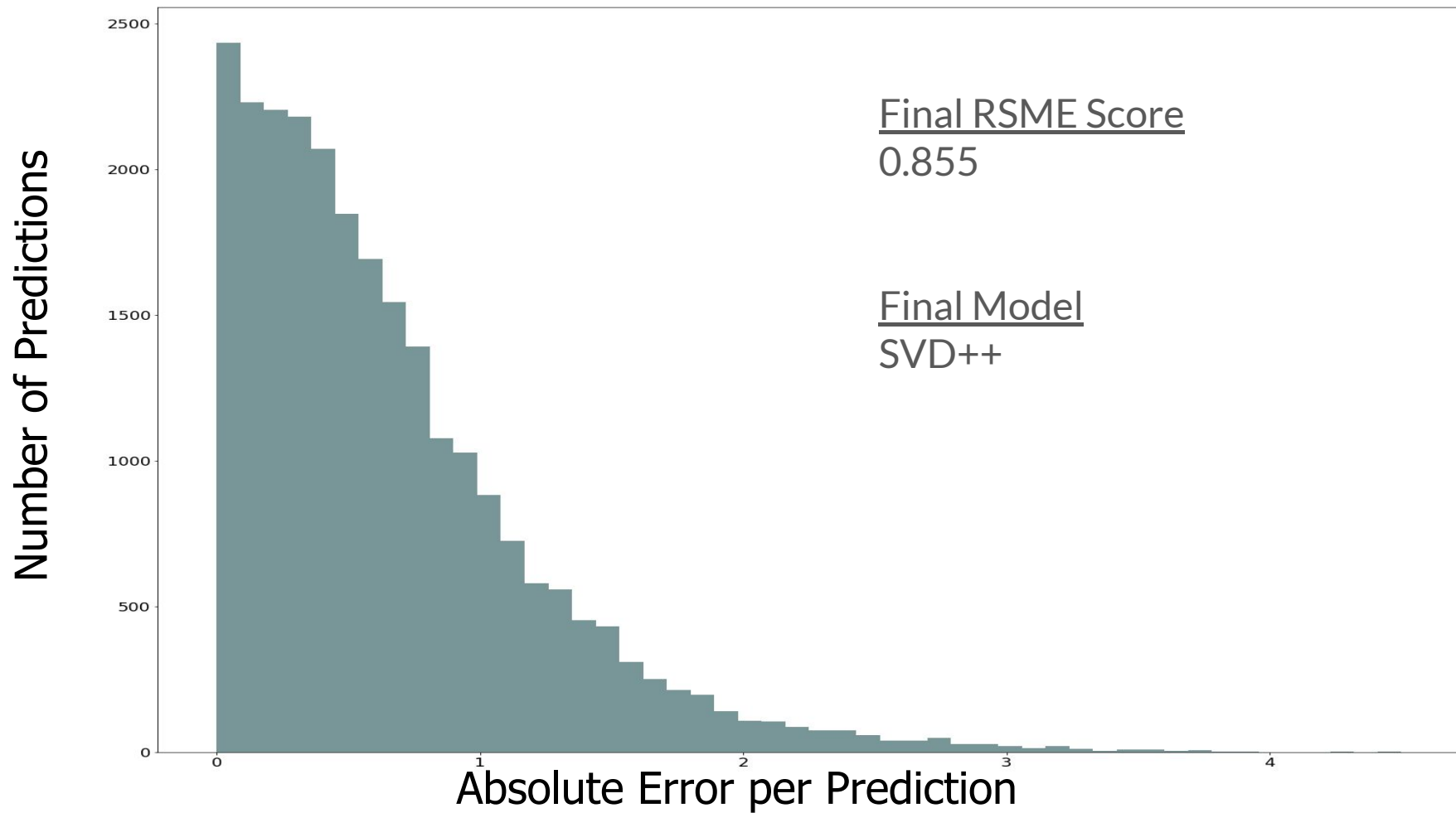
Average Movie Ratings by Release Date



Model: Collaborative Filtering



Distribution of Prediction Errors



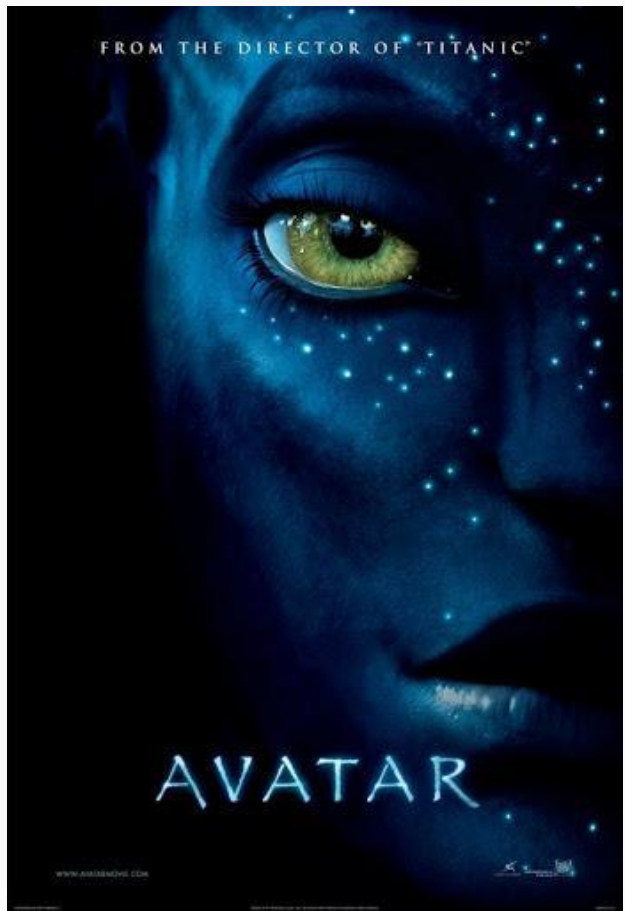
Rate 5, Get 5

Web-App Demo



Model: Content Based





Did you
like this?



We think
you will
like this



Future Work

- Develop hybrid content/collaborative system
- Speed up model for better user experience
- Gather more descriptive info for content model

Our Contact

Dann Morr

Github: @dannmorr

Email: dannmorr@gmail.com

Jacob Prebys

Github: @jprebys

Email: jakers991@gmail.com

Leana Critchell

Github: @lecritch

Email: leana.critchell@hotmail.com