RECOMMENDER SYSTEM

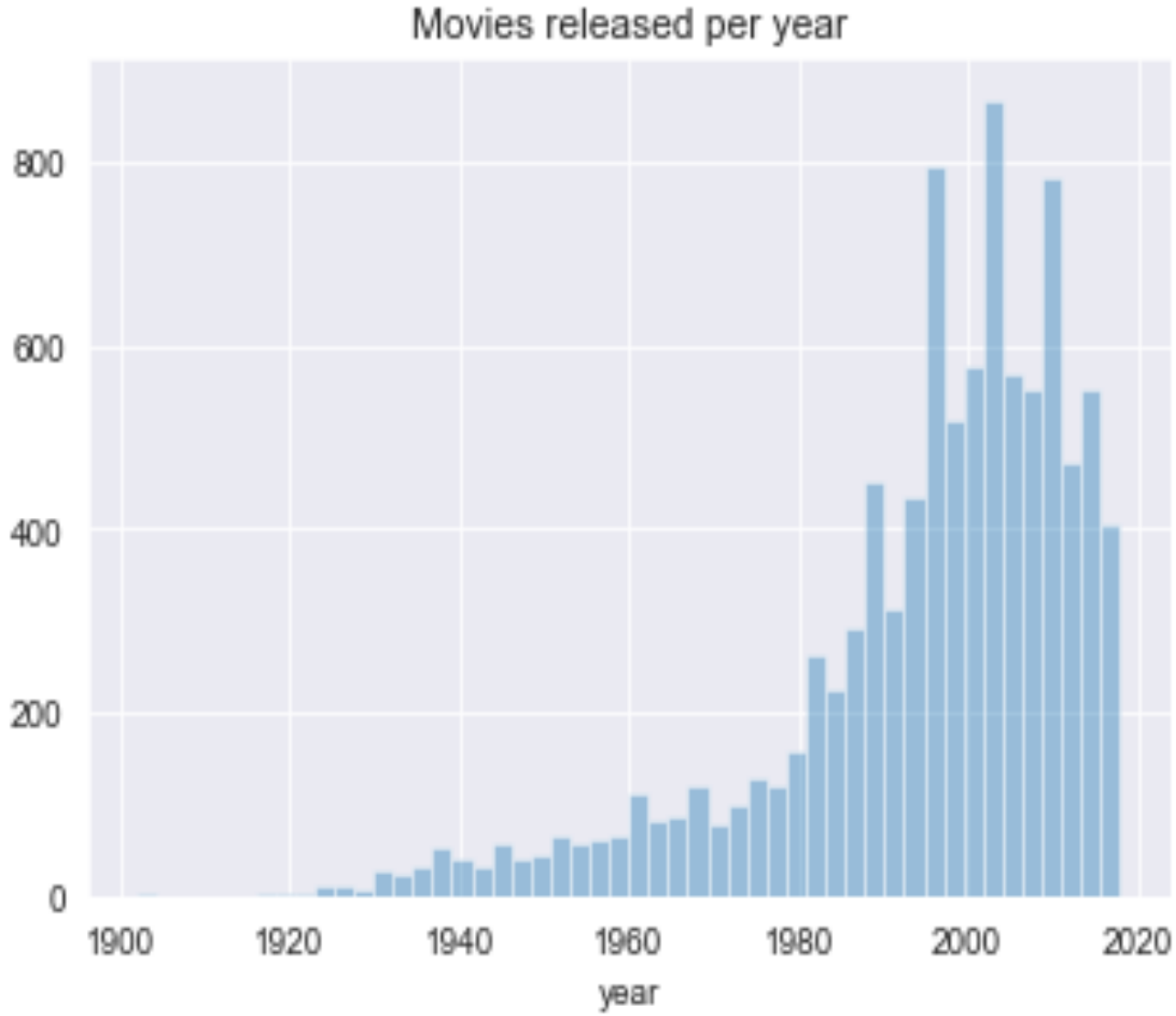
Movie Lens

ABOUT THE PROJECT

- Main goal is to build a model that provides movie recommendations.
- I used the Movie Lens (contains 100,000 user ratings)dataset.
- Implied collaborative filtering as the primary mechanism.
- Addresses the cold start problem with content-based filtering.

BASIC INFO

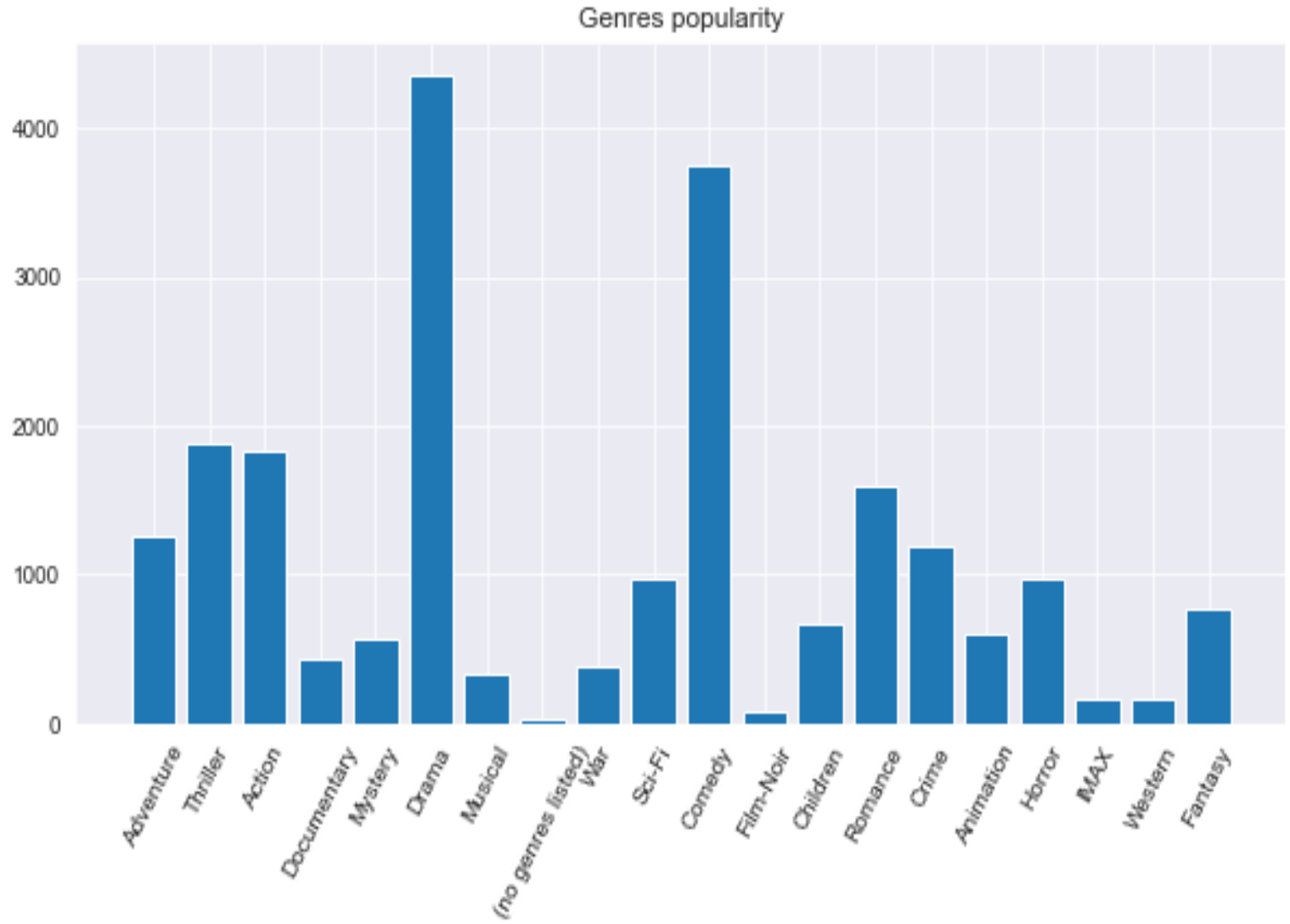
- Increase of movie production: 1990 and 2000
- Slowed down closer to 2020.



BASIC INFO

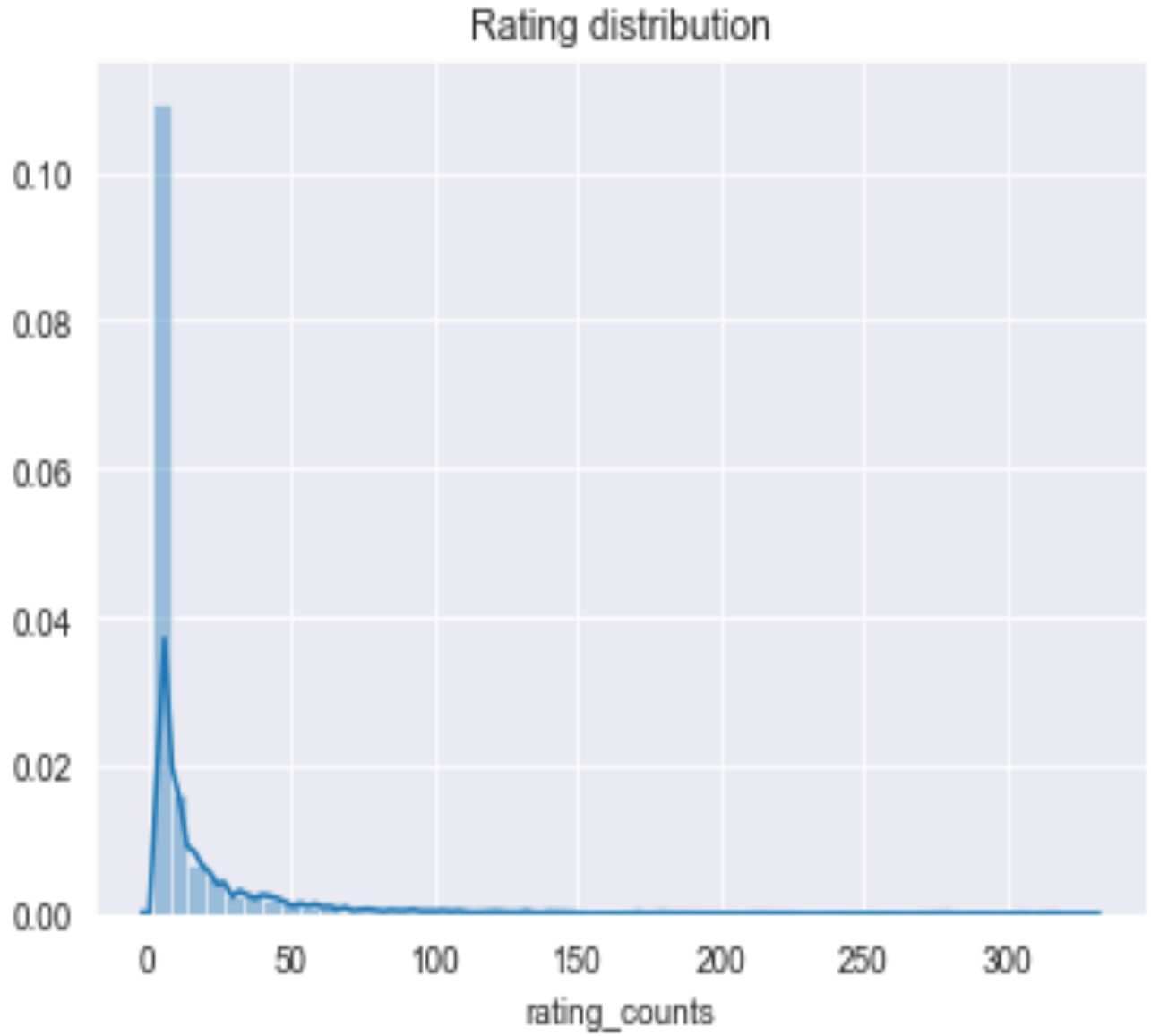
The most popular genres:

- Drama
- Comedy
- Thriller



BASIC INFO

- I will be considering movies which have high number of ratings(more than 50)



COLD START

Best Movies based on ratings and number of ratings:

1. The Shawshank Redemption (1994)

2. The Godfather (1972)

3. Fight Club (1999)

4. Cool Hand Luke (1967)

5. Dr. Strangelove or: How I Learned to Stop Worrying and Love the Bomb (1964)

COLLABORATIVE FILTERING

- My recommend focuses on movie genres which are the most similar to those viewed by the users.

- If there is no information about movie genre, my recommend uses cold start.

COMPARISON

- Created a metric which returns movies which user watched before.
- Cold start shows better result (27 movies) than recommend(12 movies)

CONCLUSIONS

- Cold Starts is ready for production.
- Recommender system that I built is not perfect but can be improved by using dataset which has more information about users(gender, nationality, age…)

Thank You!