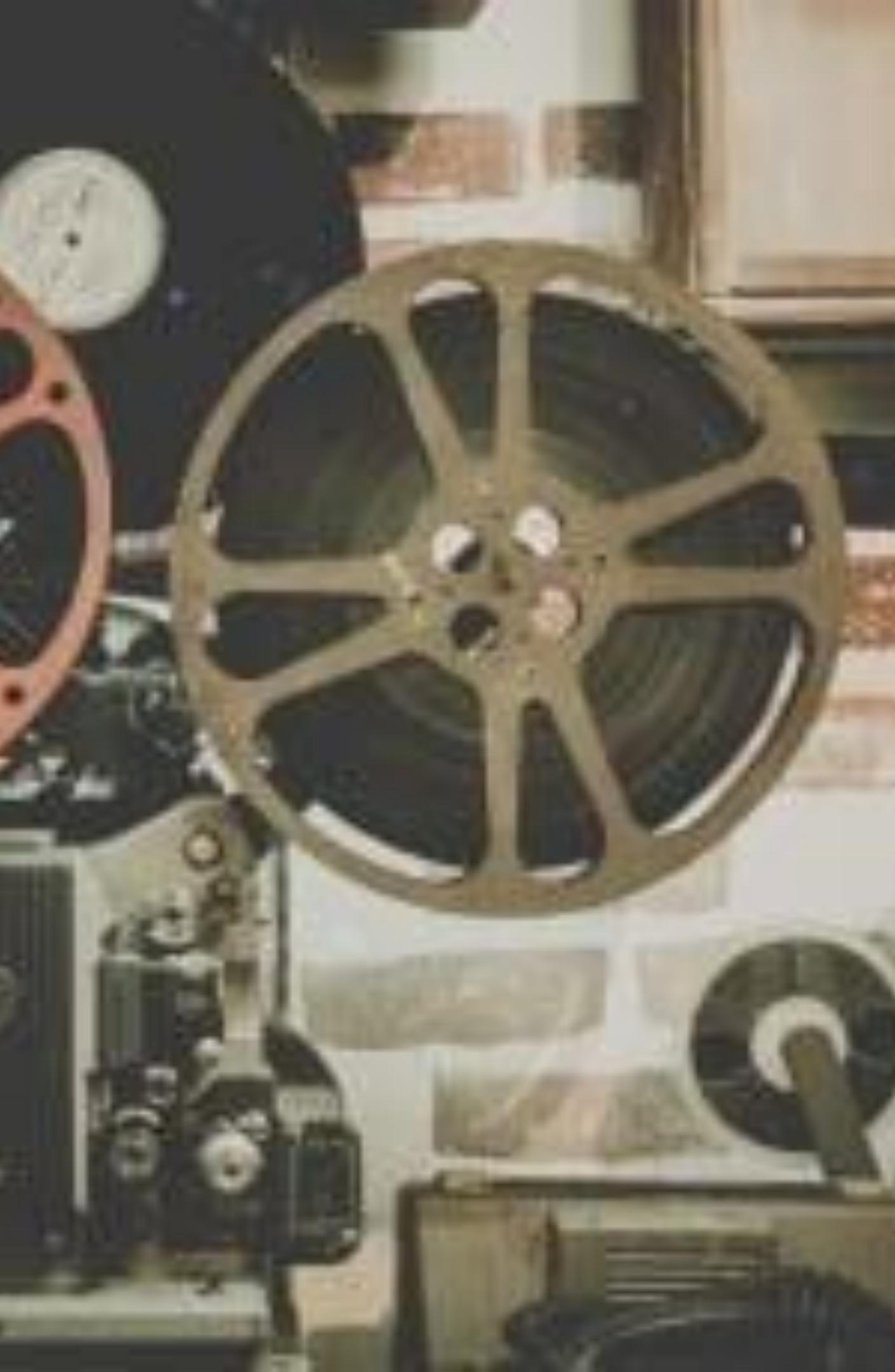


FINDING YOUR NEW FAVORITE MOVIE

1. Introduction
2. About The Data
3. “Cold Start”
4. Meet User 432
5. Collaborative Filtering
6. Future Steps

Introduction

making suggestions for
new movies to watch



Why?

There are a lot of movies to watch!

The goal is to be able to use a **collaborative recommendation** to provide a user movies suggestions enjoyed by other user with similar tastes. Additionally, we will use a **content-based recommendation** system be able to suggest movies that are similar to movies they have already watched.

The Data



MovieLens

[Available Here](#)

The dataset contains:

- 100,000 ratings with
- 3,600 tags for
- 9,000 movies by
- 600 users

Movie release spans from 1902 to 2017

What are the movies?

≥ 1
review per movie

The top Movies with more than 14 reviews were:

- Swimming with Sharks
- Girl's Town
- The Treasure of the Sierra Madre
- Guardian Angel
- Harold and Maude

14

Av. reviews per movie, std 5979

The worst Movies with more than 14 reviews were:

- The Toxic Avenger
- Hawks and Sparrows (Uccellacci e Uccellini)
- Violent City (Città violenta)
- The Borrowers
- Bull Durham

2

most common number of reviews per movie

“Cold Start”

What is it?

Content-based filtering

How can we recommend a movie *without* any user data?

Can also be used in a hybrid approach



Using Our Genres and Existing Movie Ratings

We can suggest movies for a user, just based on a title they already like

- No rating needed!

We can choose to do this based on genre

Or we can suggest based on the favorite movies of other people who liked a movie



Actually Making
Recommendations

User #432



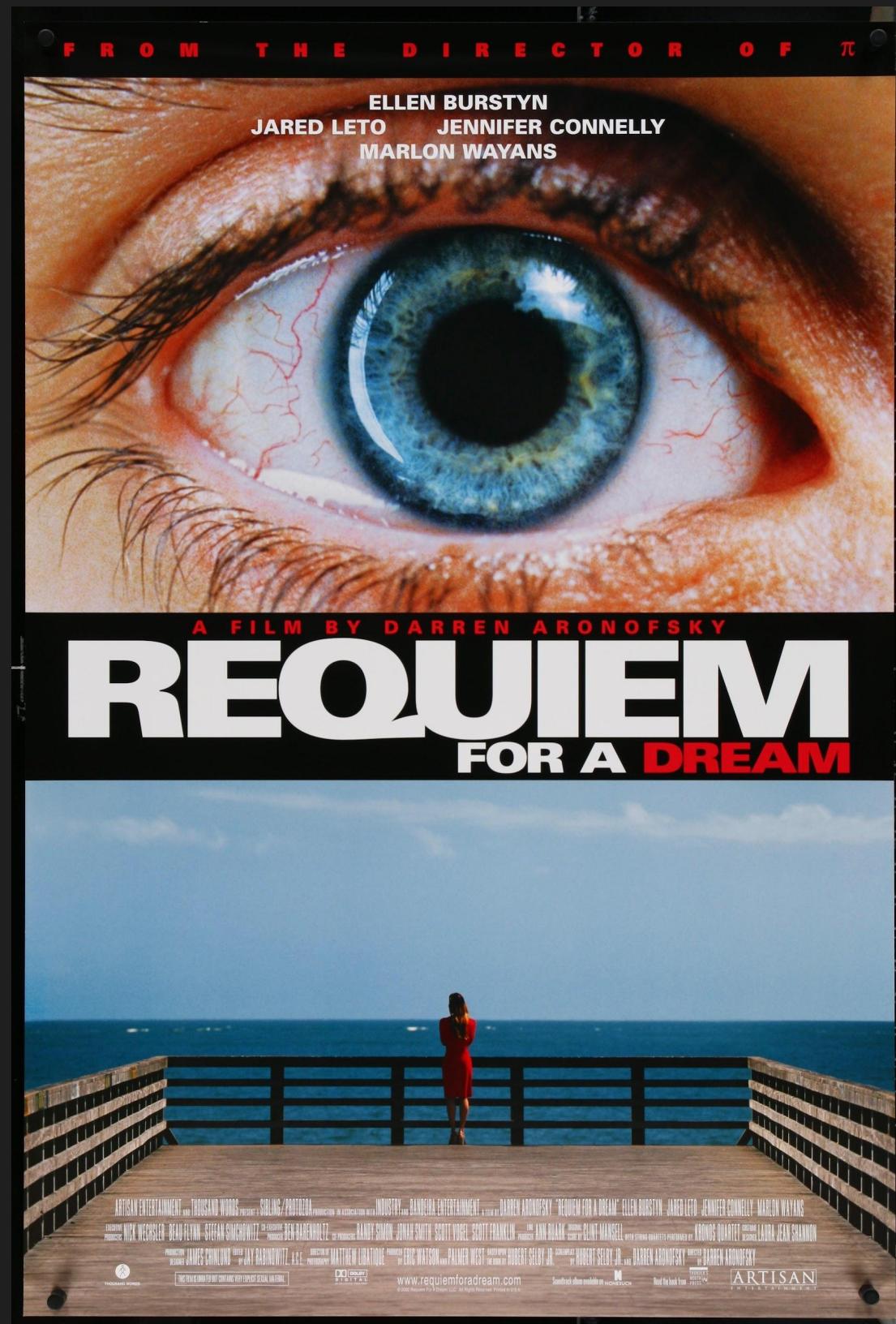
Who are they?

A Random User!

They have made 260 reviews

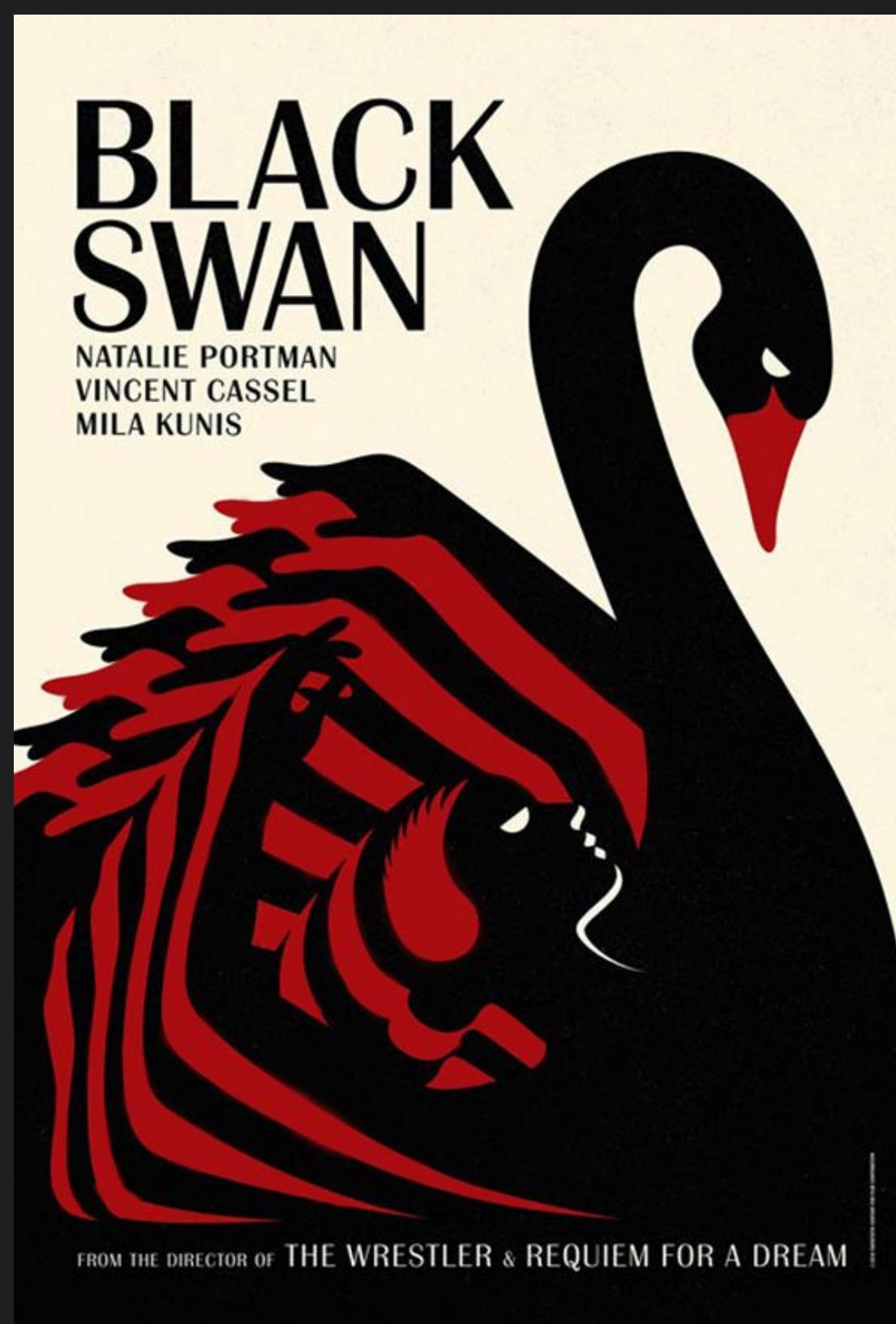
Favorite movies tend to be drama, thriller, and horror

Least favorite movies tend to be action and adventure.



Requiem for a Dream

5 stars



Black Swan

5 stars



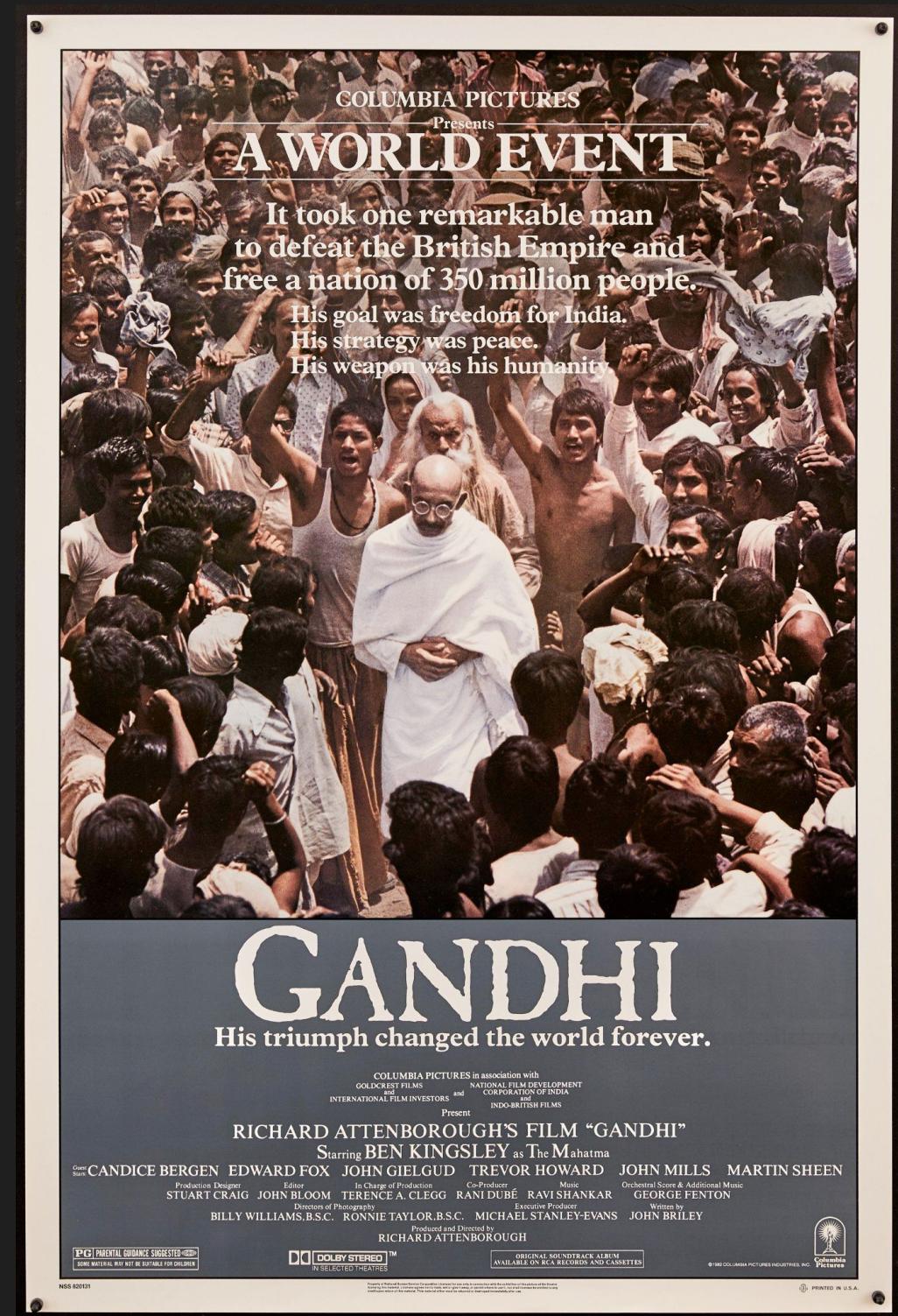
City Of Angels

5 stars



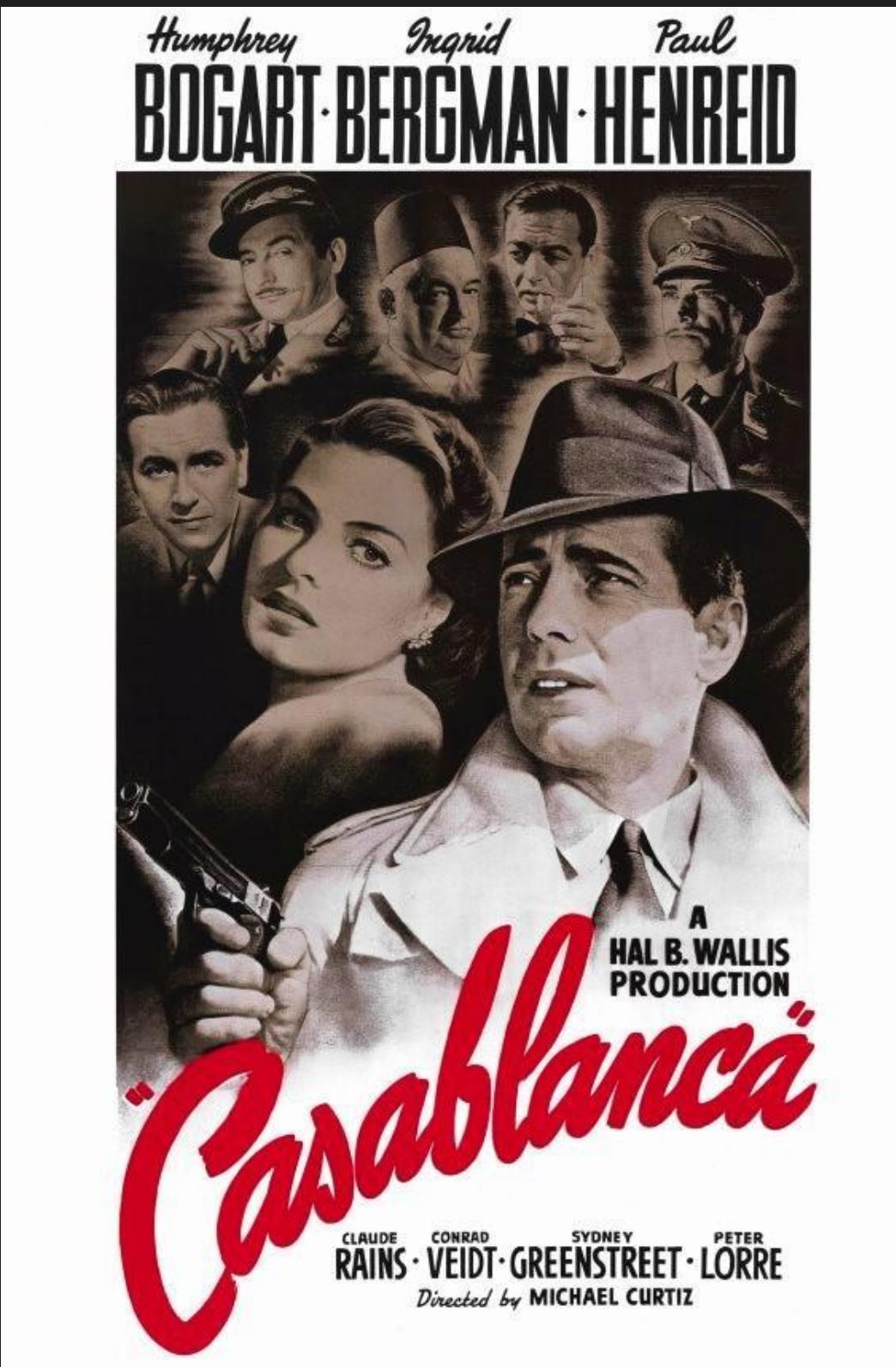
Pirates of the Caribbean: Curse of the Black Pearl

Their least favorite movies at 0.5 stars



Gandhi

Our suggestions
for 432



Casablanca



Amelie (Fabuleux destin d'Amélie Poulain, Le)



Master and Commander:
The Far Side of the
World

For Further Questions:

MCumiskey.github.io