



A Movie Recommendation App Powered by Machine Learning

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Project Overview



- **ReelRx** is a movie recommendation app that allows a user to enter two inputs (movie name; obscure Y/N) and receive a list of movie recommendations
- This dataset contains movie ratings and user information from the MovieLens website
- **ReelRx** is built on a collaborative, item based filtering model using a nearest neighbors model with cosine similarity.
- **ReelRx** provides recommended movie details through an API with **The Movie DB**.
- Our website offers dashboards that allow users to explore top movies by applying filters for age, gender, and even occupation as well as database movies by genre.

Visit ReelRx



Boundaries & Limitations

- Only movies earlier than 2001; 43% of movies between 1990 - 1999
- 75 % of users are male; 40% of users are between ages 25-34

Future Work

- More data from a broader year range and broader demographic range
- User profiles for better results

References

Data: <https://grouplens.org/datasets/movielens/>

Model: <https://www.kaggle.com/johnwill225/movie-recommendations>

API: <http://www.themoviedb.org>

Cosine Similarity: <https://www.machinelearningplus.com/nlp/cosine-similarity/#2whatiscosinesimilarityandwhyisitadvantageous>

Questions?