

Creating movielens Data-Driven Movie Ratings

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The Dataset movielens

Results

movie genre rating predictions successful with 25% accuracy based on rapidly designed model

The Model

Survey data was collected from viewers of 9742 movies

We logged 100836 ratings and 3683 tags across 610 users

Derived Logistic Model Prediction

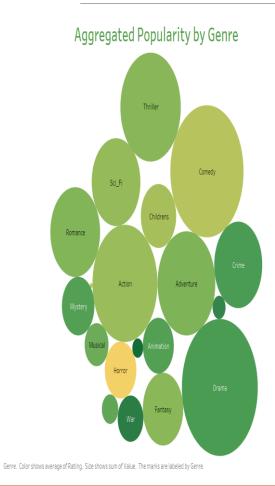
Demonstrated comparison genre affinity

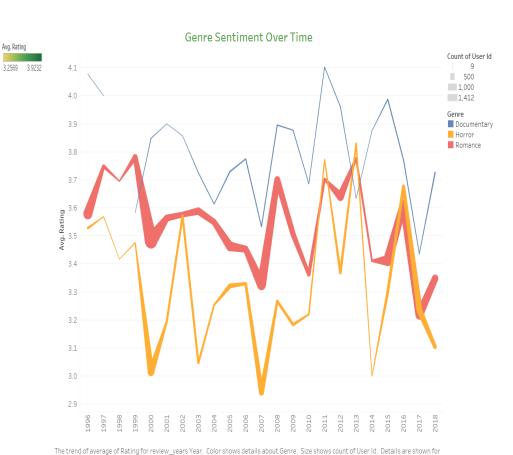
Investigated clustering

Basic exploratory data analysis on combined movie, rating, user, genre dataset

F. Maxwell Harper and Joseph A. Konstan. 2015. The MovieLens Datasets: History and Context. ACM Transactions on Interactive Intelligent Systems (TiiS) 5, 4: 19:1–19:19. https://doi.org/10.1145/2827872

Exploratory Data Analysis





Genre. The data is filtered on Rating, which keeps all values. The view is filtered on Genre, which keeps Documentary, Horror and Romance.



Ratings by Genre

3.90 Film_Nois

3.85

3.80

3.75

3.70

0 42

Action

Adventure

Animation

Childrens

Comedy

Crime

Drama

Horror

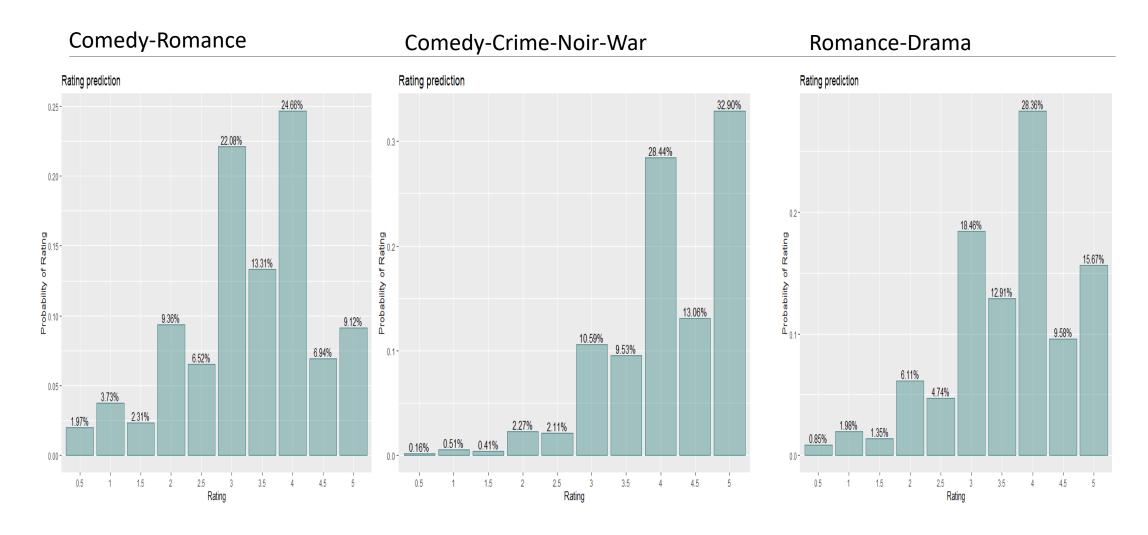
Musical no_genres_listed Romance Sci_Fi

Thriller War Western

Documentary

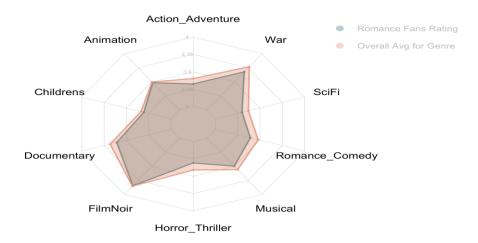
and count of Movie Id. The Rating filter ranges from 0.5 to 5. The count of Movie Id filter ranges from 42 to 33,655. The view is filtered on Genre, which keeps 19 of 19 members.

Logistic Regression of Movie Reviews

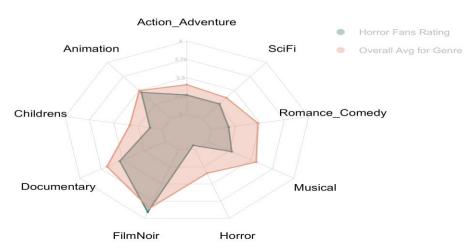


Fan Rating Tendencies across Genres

Romance Fan Tendencies



Horror Fan Tendencies



It can be said in all three cases even "expert raters" are biased in their ratings if they are a fan of a genre.

Romance Fans tend to rate higher Animation and Film Noir(classic crime movies) and rate lower Action&Horror

Horror Fans tend to like Film Noir and are very critical of Horror movies as well as Romance

Documentary Fans tend to be fair in their ratings of documentaries and are critical of Children's and Musicals

Documentary Fan Tendencies

