

Filmeve

Film recommendation for groups



2025-11-21 Diego Cantalapiedra

grouplens

movielens

1 M

grouplens

movielens

32M

grouplens
movielens

32M

87.585 films
200.948 users



grouplens

movielens

100K

grouplens

movielens

100K

9.742 films

610 users

movielfd title (year) genres



movielfd title genres tmdbld director cast
country runtime budget revenue release_date
original_language vote_average vote_count
popularity tagline overview

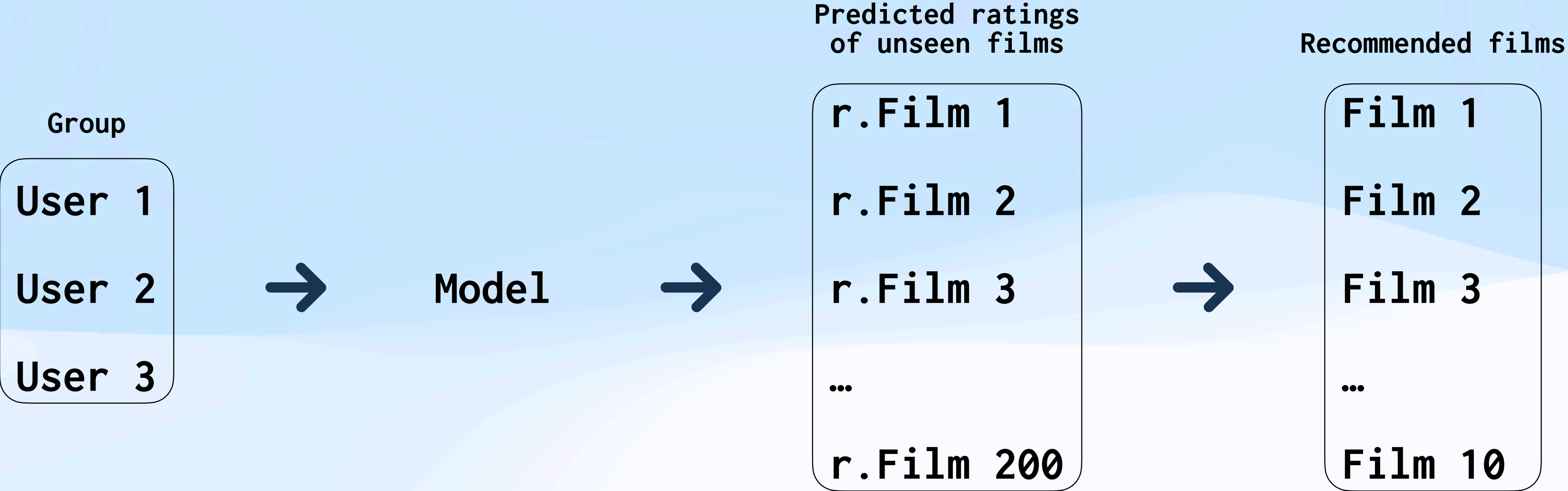
Feature engineering

17 features



98 features

Estrategia general



Machine learning models

model	train_rmse	test_rmse	train_mae	test_mae	train_r2	test_r2
Baseline (User Avg)	0.936800	0.924856	0.730359	0.722220	0.194168	0.196730
RandomForest	0.397497	0.741280	0.301390	0.560512	0.854916	0.483967
XGBoost	0.662813	0.728041	0.503423	0.551050	0.596603	0.502235
Stacked Ensemble	0.669130	0.725221	0.508684	0.549126	0.588877	0.506083

Stacked Ensemble: XGBoost, LightGBM, CatBoost, GradientBoosting, with a Ridge meta-learner.

Best model: Stacked Ensemble (Test RMSE: 0.7252)

Resultados

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USER PROFILES:

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User 43

Ratings: 114 movies
Average: 4.55 (± 0.68)
Range: 3.0 - 5.0 (median: 5.0)
Type: Generous rater, Consistent ratings
Genres: Comedy (44), Drama (42), Adventure (34), Children (32), Action (31)



User 287

Ratings: 150 movies
Average: 2.61 (± 1.50)
Range: 0.5 - 5.0 (median: 2.5)
Type: Critical rater, Varied ratings
Genres: Comedy (74), Drama (64), Romance (33), Adventure (29), Thriller (27)

Resultados

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GROUP MOVIE RECOMMENDATIONS

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Group: 2 users
Satisfaction: 4.04 / 5.0
Disagreement: 0.96
Fitness: 3.045

Resultados

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RECOMMENDED SLATE:

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- 1. Seems Like Old Times (1980)
Genres: Comedy|Romance
- 2. Akira Kurosawa's Dreams (Dreams) (1990)
Genres: Drama|Fantasy
- 3. Back to the Future (1985)
Genres: Adventure|Comedy|Sci-Fi
- 4. Damned United, The (2009)
Genres: Drama
- 5. Ocho apellidos vascos (2014)
Genres: Comedy
- 6. Memories of Murder (Salinui chueok) (2003)
Genres: Crime|Drama|Mystery|Thriller
- 7. On the Ropes (1999)
Genres: Documentary|Drama
- 8. Tekkonkinkreet (Tekkon kinkurîto) (2006)
Genres: Action|Adventure|Animation|Crime|Fantasy
- 9. Battlestar Galactica: The Plan (2009)
Genres: Action|Adventure|Drama|Sci-Fi
- 10. Thin Line Between Love and Hate, A (1996)
Genres: Comedy

Resultados

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INDIVIDUAL USER SCORES:
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User 43: 5.00
User 287: 3.09
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GENRE DISTRIBUTION:
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Drama          5 ( 50.0%)
Comedy         4 ( 40.0%)
Adventure      3 ( 30.0%)
Sci-Fi         2 ( 20.0%)
Fantasy        2 ( 20.0%)
Crime          2 ( 20.0%)
Action         2 ( 20.0%)
Documentary    1 ( 10.0%)
Romance        1 ( 10.0%)
Mystery        1 ( 10.0%)
Thriller       1 ( 10.0%)
Animation      1 ( 10.0%)
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Descubrimientos

- **✗** Action Consensus → 80% Comedy (wanted Action)
- **✗** Romance + Indie → 95% Comedy (wanted Romance)
- **✗** Sci-Fi + Animation → 95% Comedy (wanted Sci-Fi)
- **✗** Nolan Enthusiasts → 85% Comedy (wanted Sci-Fi/Thriller)
- **✗** Miyazaki Fans → 85% Comedy (wanted Animation)

Users discovery: genre must be top 1-2, 50%+ exclusivity, 0.5+ differential

- 0 Action specialists
- 0 Romance specialists
- 0 Horror specialists
- 0 Thriller specialists
- 1 Comedy specialist
- 1 Drama specialist
- 3 Spielberg fans