

Filmeve

Film recommendation for groups



grouplens

movielens

1M

grouplens

movielens

32M

grouplens

movielens

32M

87.585 films

200.948 users



grouplens

movielens

100K

grouplens

movielens

100K

9.742 films

610 users

movield

title (year)

genres



movield	title	genres	tmdbId	director	cast
country	runtime	budget	revenue	release_date	
	original_language	vote_average	vote_count		
	popularity	tagline	overview		

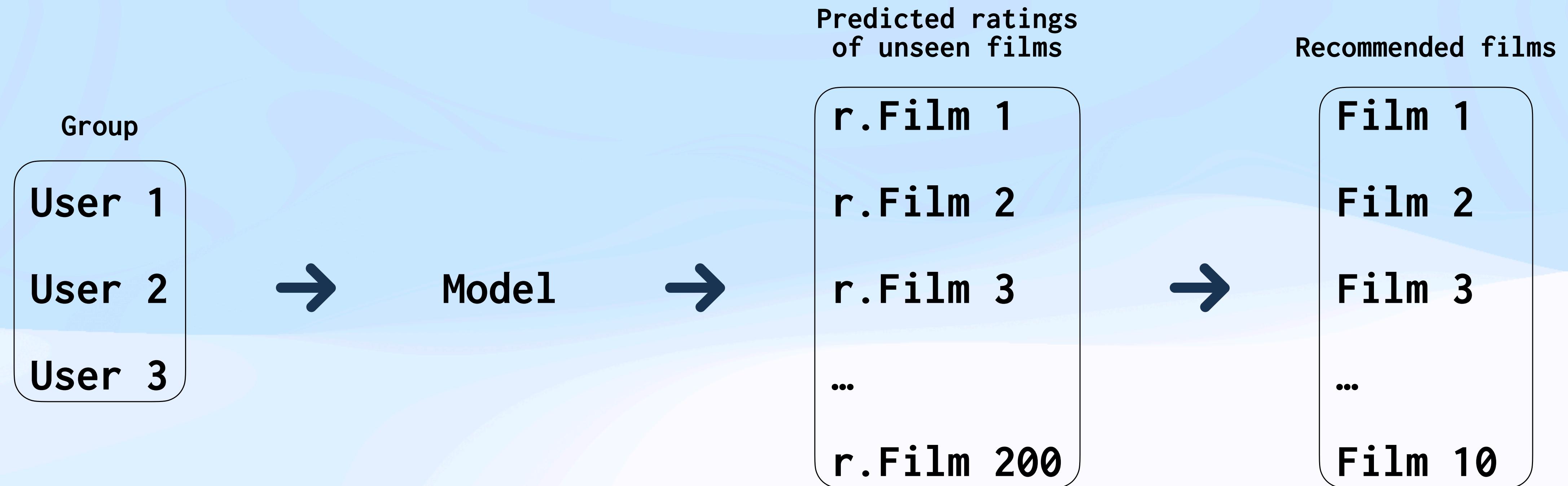
Feature engineering

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

USER PROFILES:

 **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

GROUP MOVIE RECOMMENDATIONS

Group: 2 users

Satisfaction: 4.04 / 5.0

Disagreement: 0.96

Fitness: 3.045

Resultados

RECOMMENDED SLATE:

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

INDIVIDUAL USER SCORES:

User 43: 5.00
User 287: 3.09

GENRE DISTRIBUTION:

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%)

Descubrimientos

- ~~X~~ Action Consensus → 80% Comedy (wanted Action)
- ~~X~~ Romance + Indie → 95% Comedy (wanted Romance)
- ~~X~~ Sci-Fi + Animation → 95% Comedy (wanted Sci-Fi)
- ~~X~~ Nolan Enthusiasts → 85% Comedy (wanted Sci-Fi/Thriller)
- ~~X~~ 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