🎬 IMDb
Predicting
Movie Ratings

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MOTIVATION:

- Love to movies
- An increase in the number of online viewers, whose choice is usually determined by rating

GOAL :

Make a linear regression to evaluate the features that best predict movie rating on IMDb.
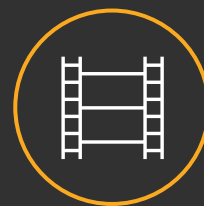
27 FEATURES

Data Collection
BeautifulSoup

Movies per last 30 years
Rating
Popularity

Worldwide Gross
Domestic Gross
Production Budget

19 Genres
Oscar winners

GENRES

Action	Crime	Horror	Sport	Fantasy
Adventure	Drama	Music	Thriller	Animation
Biography	Family	Mystery	War	Sci_Fi
Comedy	History	Romance	Western	

PROCESS

IMDb rating?

- Linear Regression
- Ridge

$R^2 = 0.6$

GENRES

LASSO Path
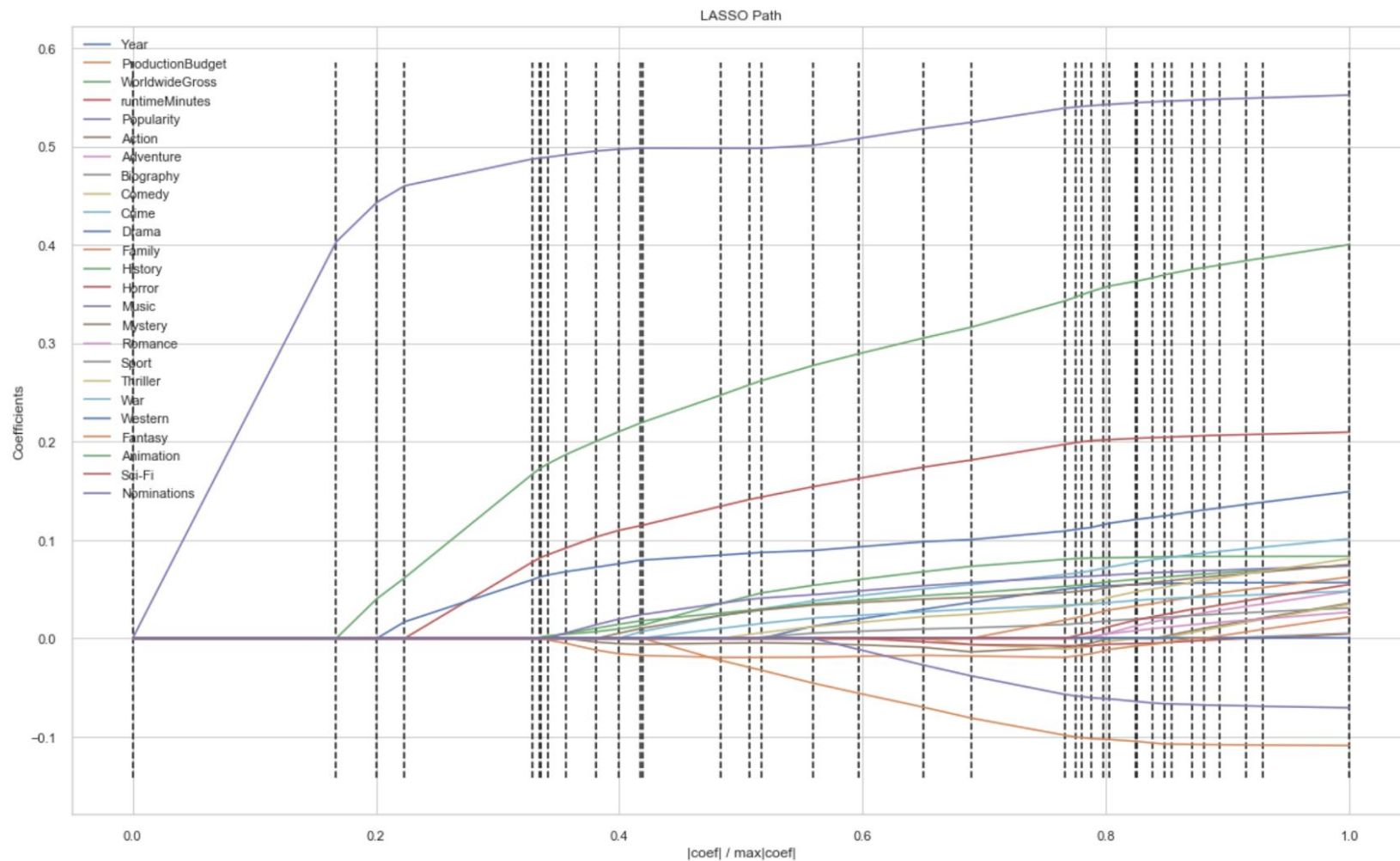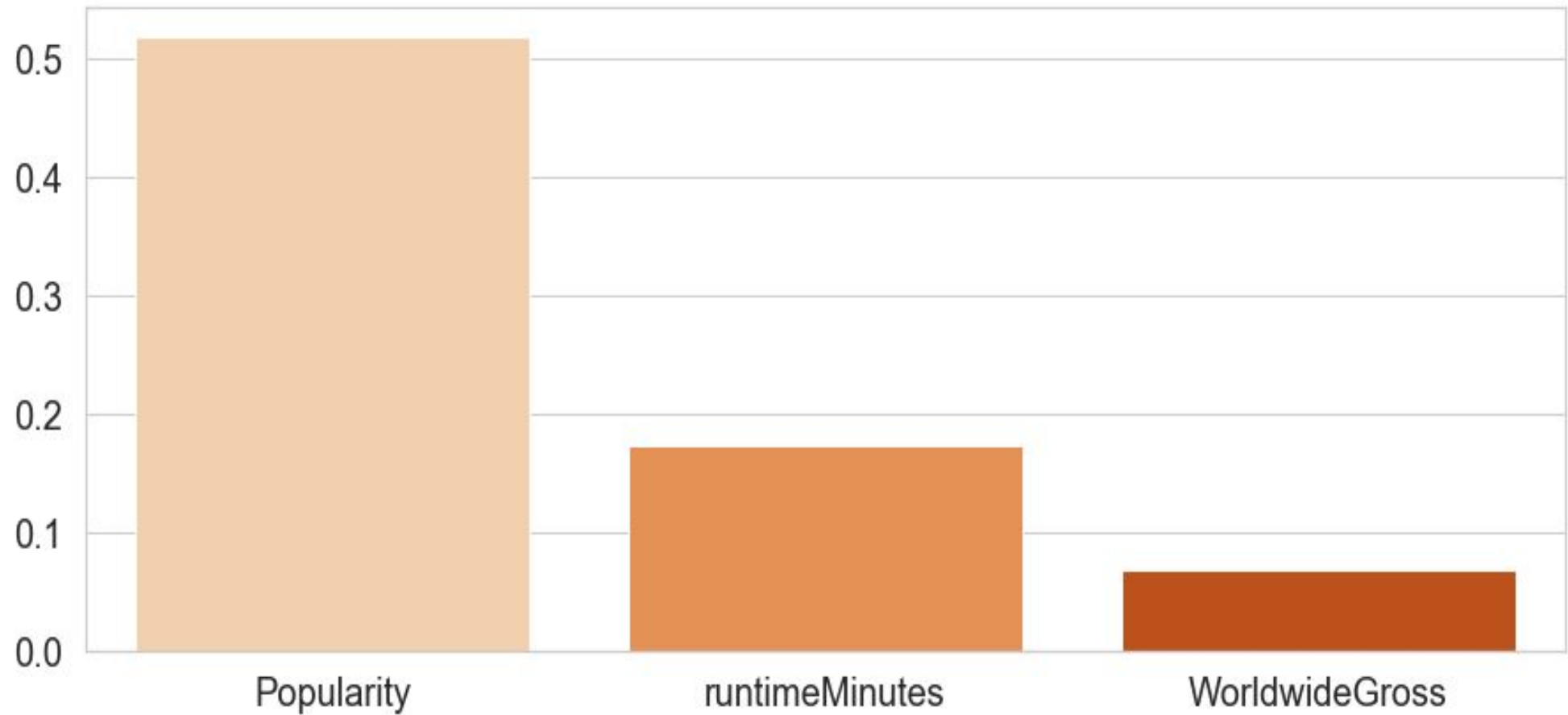
- Lasso
- LARS Path

BEST CONTINUOUS PREDICTORS

HIGH RATING

Animation

Drama

Crime

LOW RATING

Action

Fantasy

Sci Fi

OSCAR

When the opinion of critics does not matter

Conclusion

People are better than you think!

- Our society is ready to sympathize. People like movies about real life, relationships and emotions
- For people, special effects are not as important as a good story

Suggestion for movie makers

More money on the screenwriters

Future Work

Actors

Directors

Comparison

THANK YOU!

Questions?