

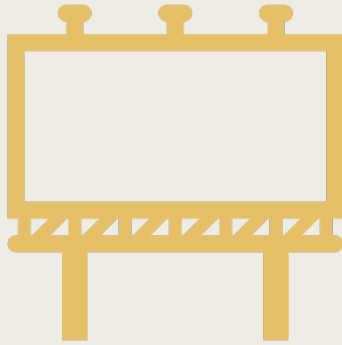
MOVIE REVENUE PREDICTOR



Metis Project 2
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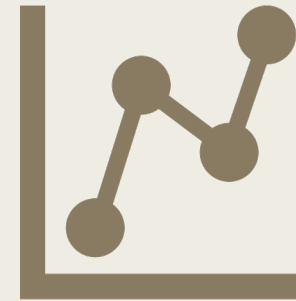


Movies = \$\$\$



Risky investments

Producers have a large stake in how a movie does in the box office



Objective: Predict domestic movie revenue (after opening weekend) from top grossing films by determining features correlated to their success

Available Features

Domestic Gross

International Gross

Worldwide Gross

Opening Weekend Gross

Budget

Release Date

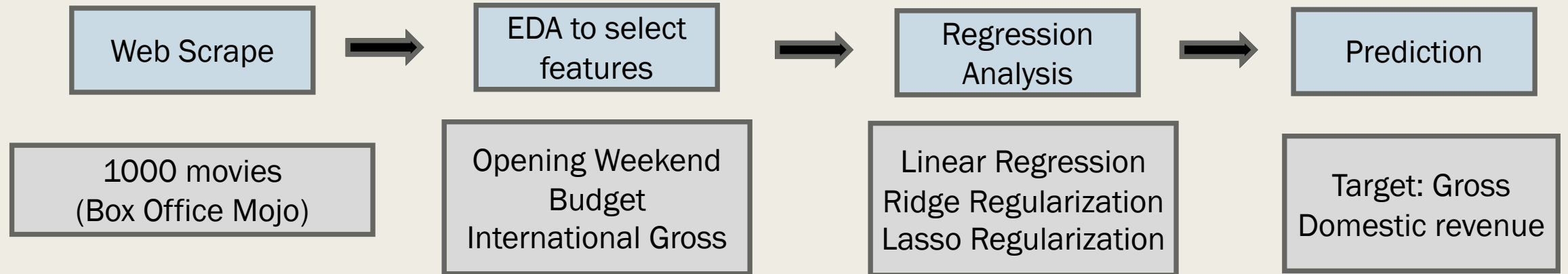
Runtime

Genre

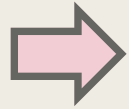
MPAA Rating

***Gross Revenue = Domestic Gross - Opening Weekend
Gross**

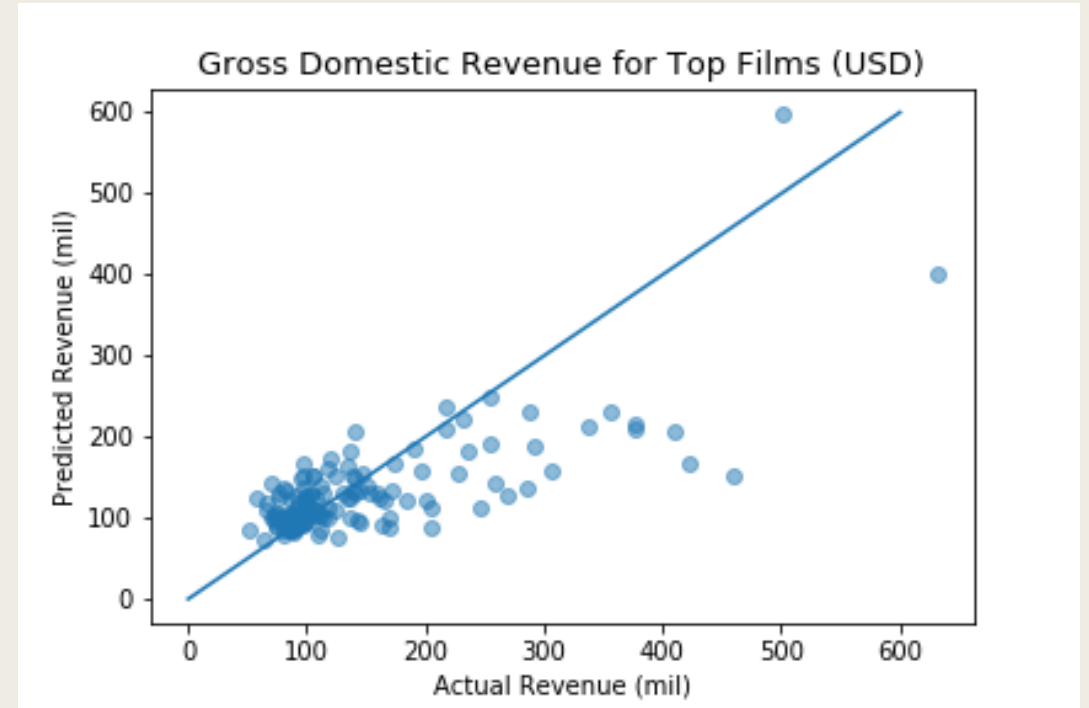
PROCESS OVERVIEW



Model Selection & Results



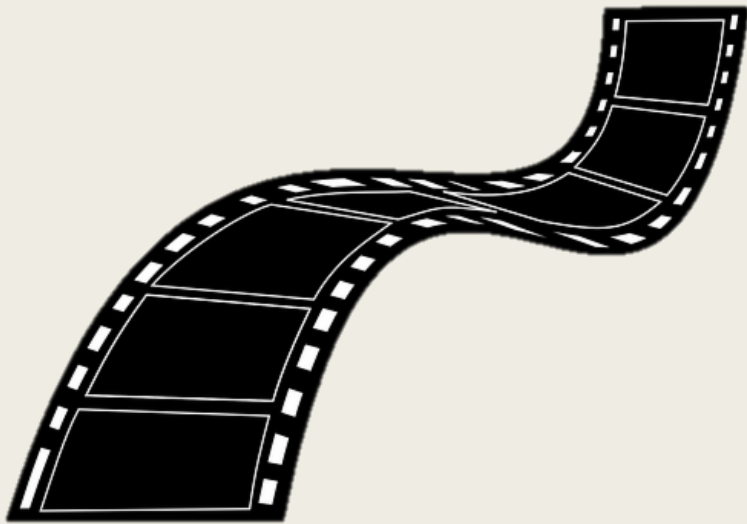
Cross Validation Tests	R^2
<i>Linear Regression</i>	0.4528
<i>Lasso</i>	0.4531
<i>Ridge</i>	0.4528



R^2	0.5096
MAE	42.3

Conclusions

- Opening weekend revenue predicts gross U.S. revenue for a film relatively well
 - *Many other factors contribute to movie revenue*



Future Directions

- Genres and ratings
 - Time of the year