



Oscar-egression



When Metis gives you movies... predict the Oscars

Box Office **Mojo**
THE NUMBERS



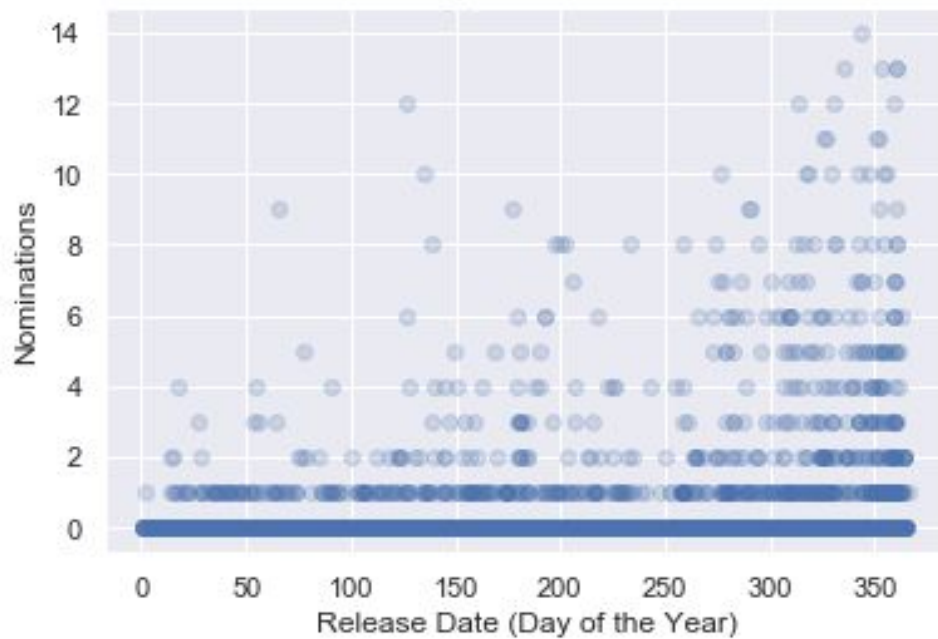
- Domestic Total Gross
- Run Time
- Release Date
- Production Budget
- Length of release in theaters
- Opening Weekend Gross
- Opening weekend rank

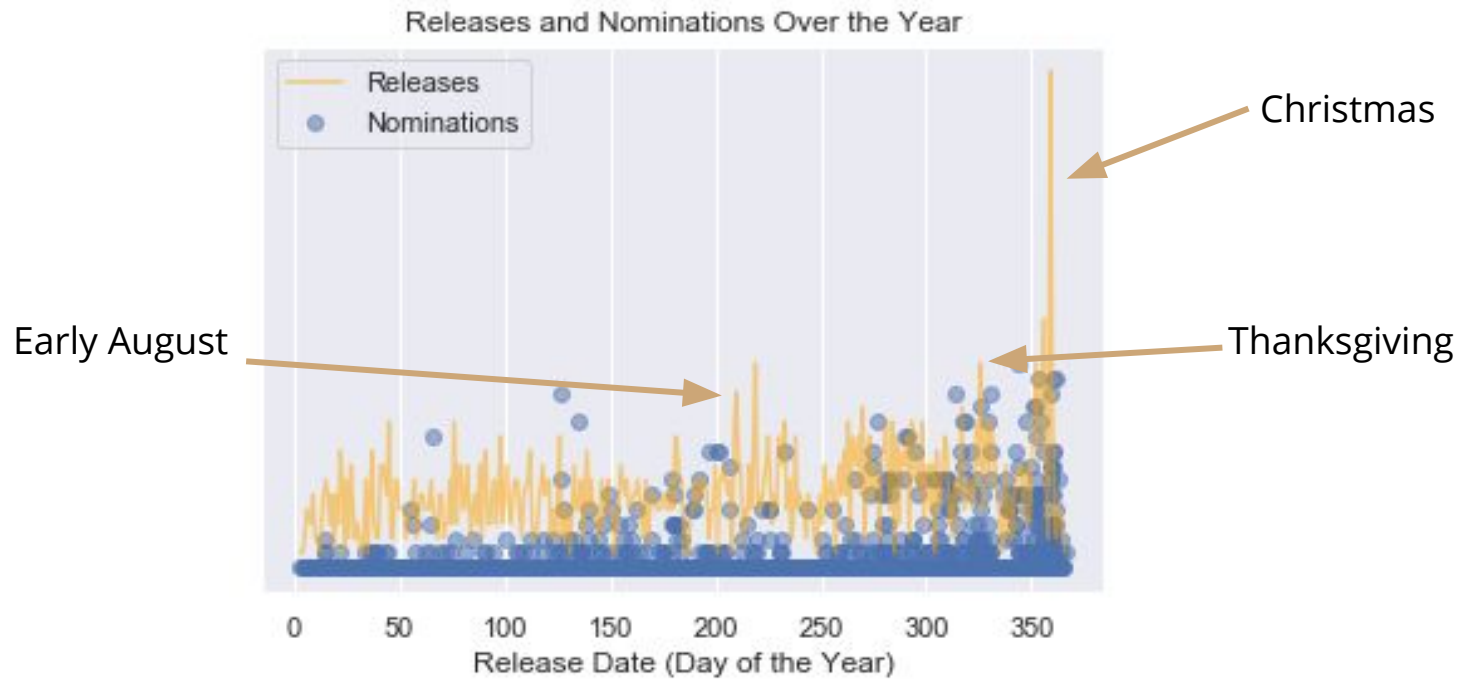


Theory

Studios strategically release their oscar hopefuls later in the year to remain fresh in the minds of the Academy

Number of Noms by Release Date for All Movies





Studios strategically release their oscar hopefuls later in the year to **maximize the number of nominations.**

Let's take this further...

Can we use this to predict nominations?

Considerations

Most films don't receive any nomination

Oscar nominations can't be less than 0, don't come in halves



Poisson Regression?

Final Destination

Features:

Domestic Total Gross

Run time

Time in release (in theaters)

Production Budget

Release date in the year

Opening gross

Opening rank

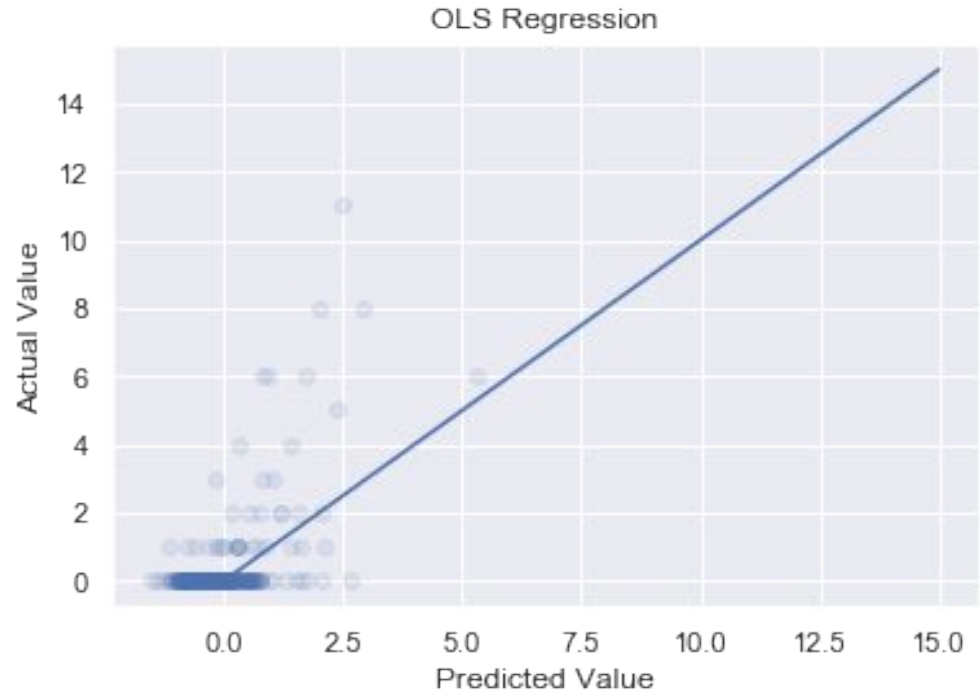
Opening Ratio *

* amt of domestic total gross earned
over opening weekend

Metric:

R^2 is 3.4

(poisson pseudo r^2 was .07)



How predictive was release date?

Feature predictiveness in order of coefficient magnitude:

Domestic Total Gross	1.3798
Opening gross	-1.2498
Run time	0.4649
Days In theaters	0.4001
Release date in the year	0.1358
Opening Ratio	0.1709
Opening rank	0.0276
Production Budget	5.817e-05

Interesting Results: The Lord of the Rings



Fellowship of the Ring

13 nods

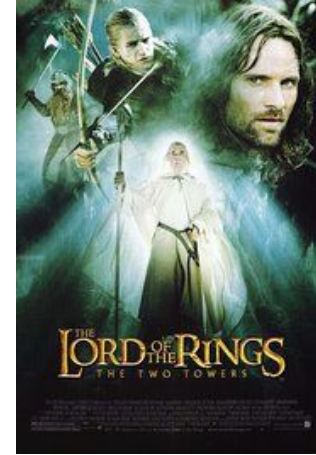
In theaters 243 days
Run time 178 mins
Opening ratio 15
Opening Gross 47M



Return of the King

11 nods

In theaters 170 days
Run time 200 mins
Opening ratio 18
Opening Gross 72M

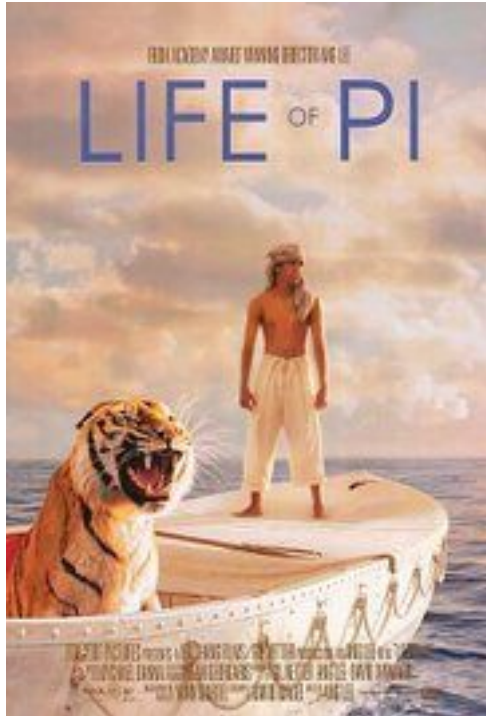


The Two Towers

Predicted: 5 nods
Actual: 6

In theaters 250 days
Run time 179 mins
Opening ratio 19
Opening Gross 62M

Interesting Results: Life of Pi



Predicted: 2 nods

Actual: 11

Release date: Nov 21

In theaters 247 days

Opening Ratio 18

Opening weekend rank: 5

Opening gross 22M

Moving Forward

Clean up strings & incorporate categorical variables into the model:

Directors, Mpaa Rating, Genre

thank you

