

What is the highest grossing studio of the quarter?

My goal

Best studio by total gross?

Data used

Per quarter:

- Opening gross
- Number of theatres
- Total budget
- Number of movies released

How?

boxofficemojo.com Studios:

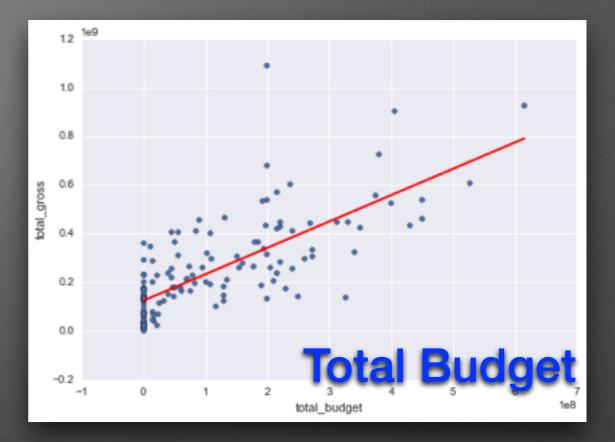
- Buena Vista
- 20th Century Fox
- Paramount
- Universal

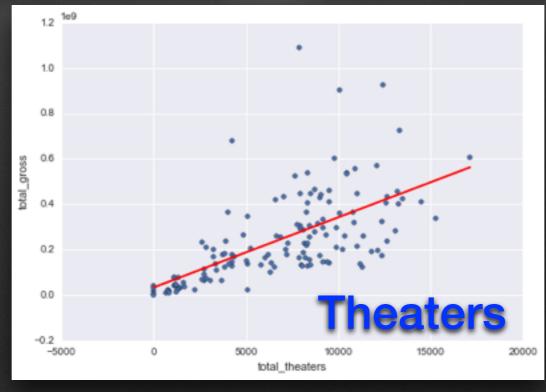
Quarter data from 1981 to 2015

Most important variables

Correlations







The Model

Cross-validation &
Linear Regression

Buena Vista score: 0.723

One model for all studios

Using the model built with the Buena Vista data

20th Century Fox score: 0.728

Universal score: 0.790

Predicting for this quarter

Buena Vista : \$91 million : The Finest Hours 20th Century Fox : \$188 million : Kung Fu Panda 3 Universal : \$168 million : 13 hours...

Paramount : \$101 million : Ride Along 2

Rank of studios by current total gross according to box office mojo:

- 1. Universal
- 2. 20th Century Fox
- 3. Paramount
- 4. Buena Vista

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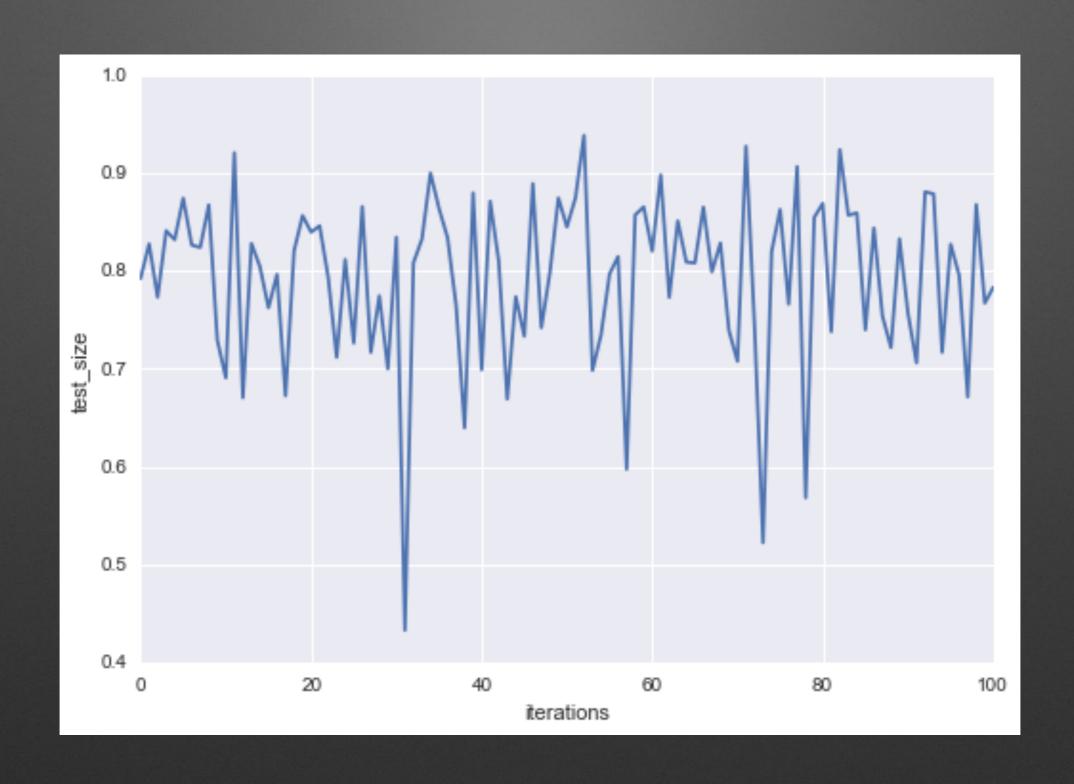
- 1. 20th Century Fox
- 2. Universal
- 3. Paramount
- 4. Buena Vista

Improvements

- More and better data: more variables: directors, writers, actors, ...
- Validating information through different sources
- Predicting ahead of the curve by building a model that predicts before the quarter even starts
- Verifying the accuracy of the model with the other studios
- Automate I system to predict rise in stock prices and market share for a studio

Thank you

Score over 100 train_test_splits



Predicting Buena Vista total gross in 2016Q1:

- total_open_gross = 10,288,932
- total_theaters = 3,143
- total_budget = 75,000,000
- numbers_movies = 1

20th Century Fox in 2016Q1:

- total_open_gross = 41,282,042
- total_theaters = 3,987
- total_budget = 145,000,000
- numbers_movies = 1

Universal in 2016Q1:

- total_open_gross = 35,243,095
- total_theaters = 3,192
- total_budget = 40,000,000
- number_movies = 1

Paramount in 2016Q1:

- total_open_gross = \$16,194,738
- total_theaters = 2,917
- total_budget = 50,000,000
- number_movies = 1

 http://seekingalpha.com/article/3102666-pickthese-3-stocks-over-disney-to-profit-from-theavengers-and-star-wars