Successful Movie Prediction

DIEGO DUQUE

Agenda

INTRO

2 APPROACH

3 RESULTS

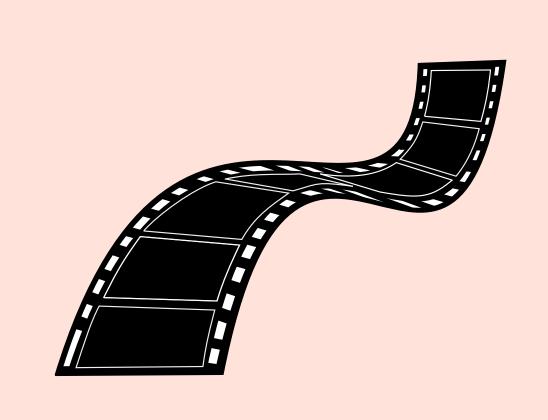
4 FUTURE WORK

5 APPENDIX

1-INTRO

THE CLIENT





2- APPROACH

OUTCOME

PREDICT GLOBAL GROSS FOR A SUCCESSFUL MOVIE





BoxOfficeMojo.com



2010-2019



2000 movies

DATA

Numerical

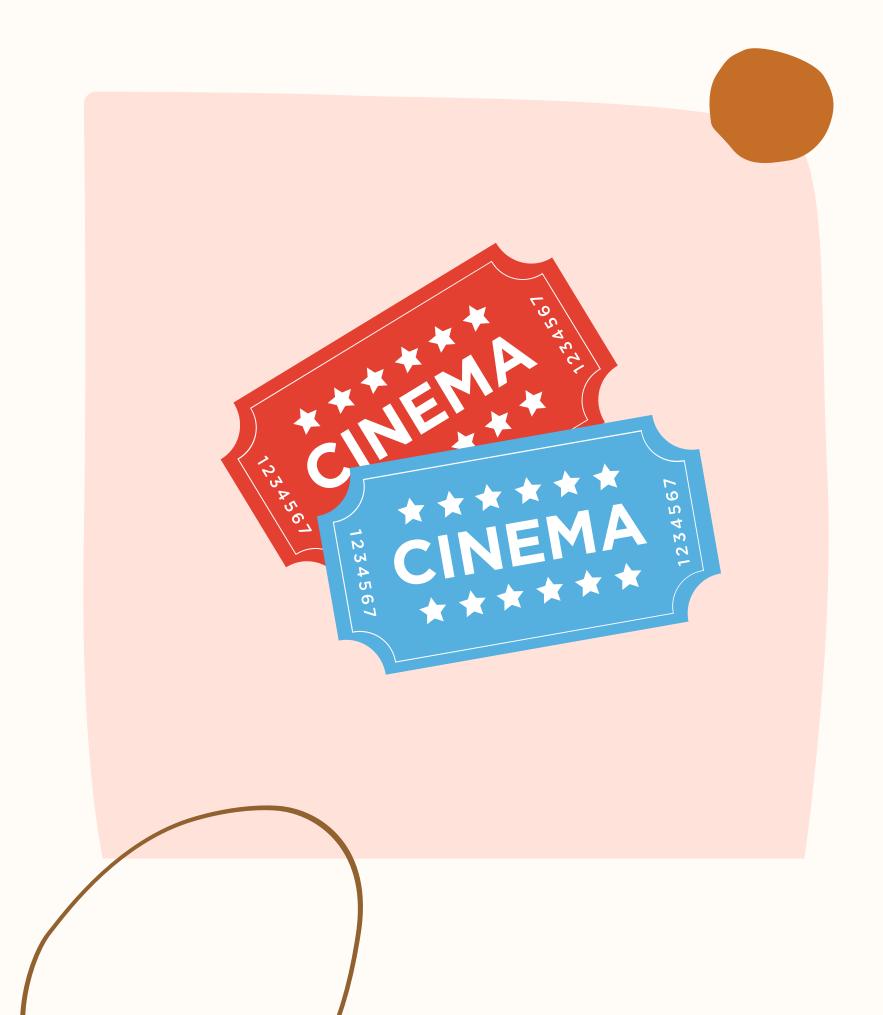
- WORLDWIDE GROSS
- BUDGET
- WIDEST RELEASE
- RUNTIME

Categorical

- TITLE
- MPAA RATING
- RELEASE DATE
- GENRES
- SEASON

3-RESULTS

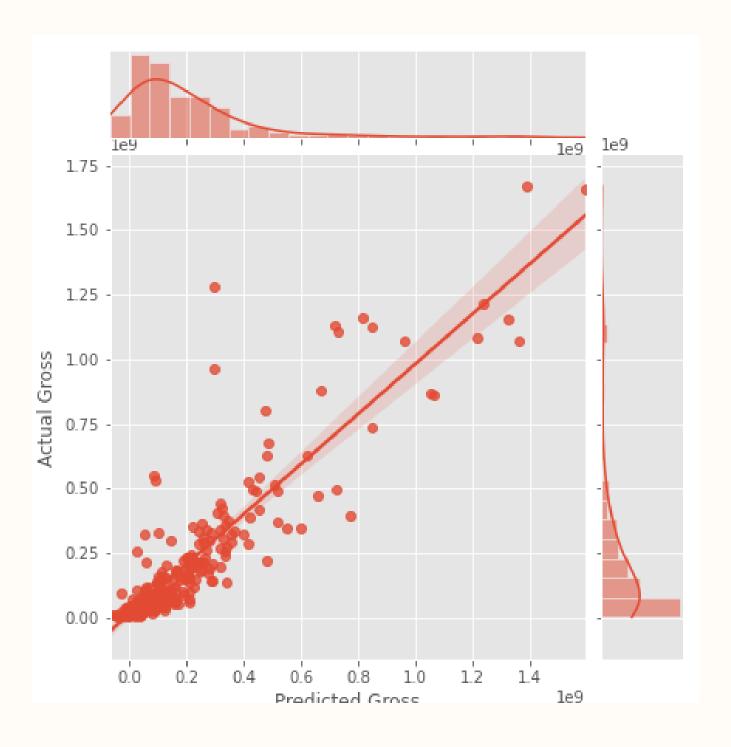
MODELING



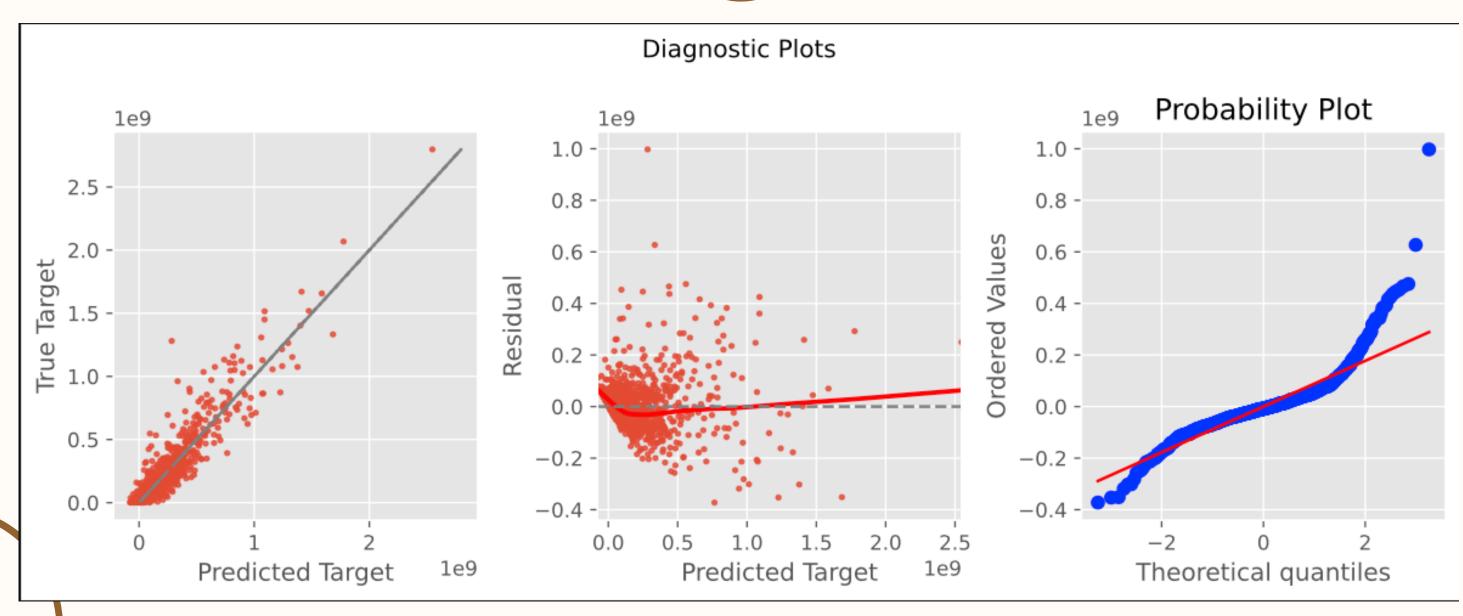


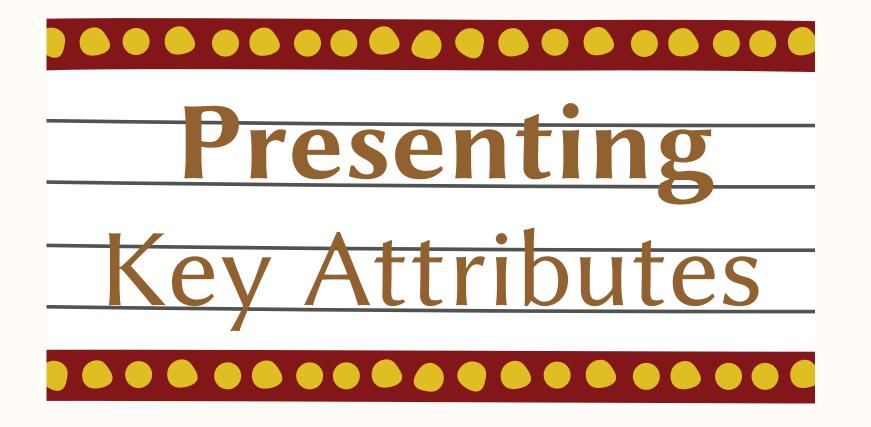
Lasso CV

 $R^2 = 0.894$



Ridge CV





BUGET

High

RATING

PG-13

DISTRIBUTOR

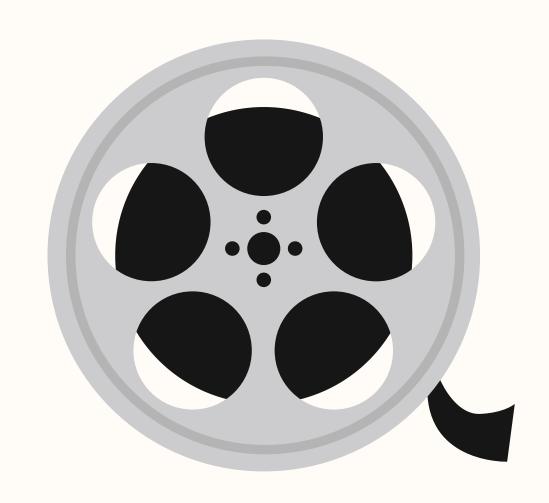
Walt Disney Studios Motion Pictures

SEASON

Summer

4 - FUTURE WORK

- 1 DIRECTOR AND CAST
- 2 TIME SERIES
- 3 COMBINE WITH OTHER WEBSITES



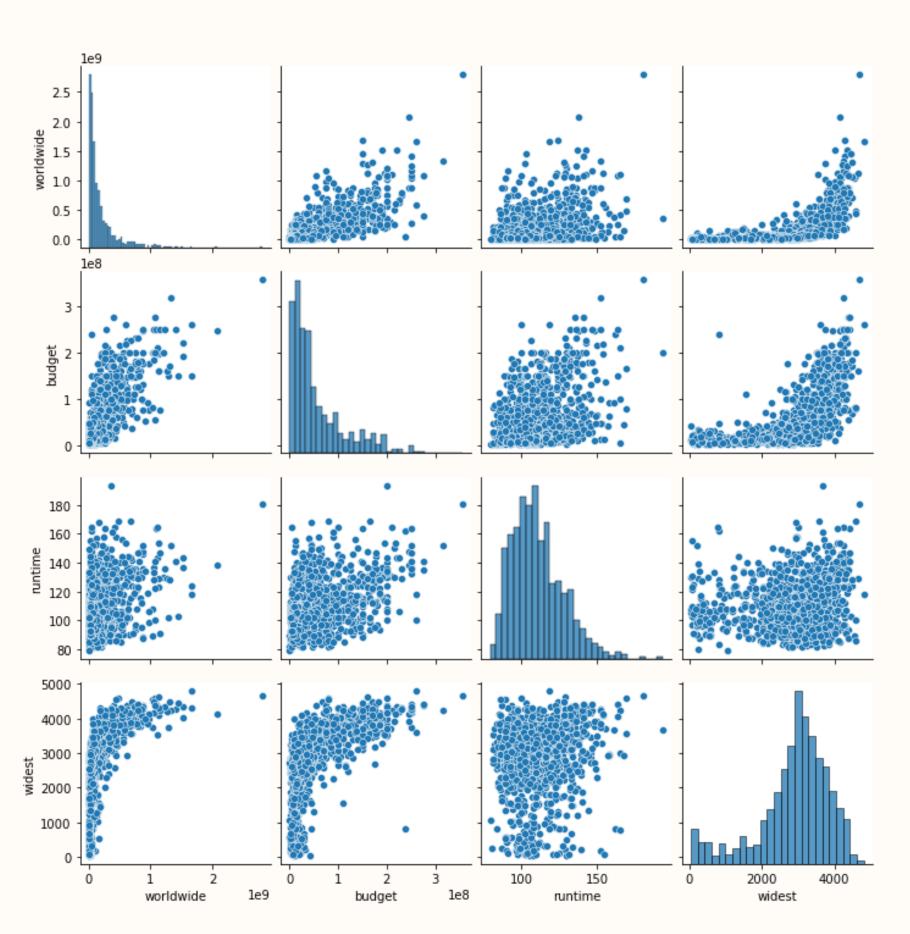
THANKYOU

DIEGO DUQUE



5-APPENDIX

Additional charts



PAIRPLOT

(Numerical values)

OLS (Numerical values)

		OLS	Regress	ion Res	ults				
Dep. Variable:		W	worldwide		R-squared:		0.587		
	Model:		OLS	Ad	j. R-sqı	uared:		0.586	
	Method: L		Least Squares		F-statis		544.1		
	Date: Fr		ri, 09 Jul 2021		Prob (F-statistic)		7.74e-220		
	Time:	(3:25:42	Lo	g-Likeli	hood:	-2	3454.	
No. Obse	ervations:		1151			AIC:	4.69	2e+04	
Df R	esiduals:		1147			BIC:	4.69	4e+04	
ı	Df Model:		3						
Covariar	nce Type:	no	onrobust						
	со	ef s	td err	t	P> t	[0	.025	0.9	75]
const	-2.516e+0					[0 -3.29			_
const		08 3.93	3e+07 -			-3.29		-1.74e	-
	-2.516e+0	08 3.93 31	3e+07 -	-6.396 22.727	0.000	-3.29e	e+08	-1.74e 2.	+08 .991
budget	-2.516e+0 2.75 1.11e+0	08 3.93 31 06 3.27	3e+07 - 0.121 : 7e+05	-6.396 22.727	0.000	-3.29e	e+08 2.515	-1.74e 2. 1.75e	+08 .991 +06
budget runtime widest	-2.516e+0 2.75 1.11e+0 5.859e+0	08 3.93 31 06 3.27	3e+07 - 0.121 : 7e+05 6.779	-6.396 22.727 3.396	0.000 0.000 0.001 0.000	-3.296 4.696 4.586	e+08 2.515 e+05	-1.74e 2. 1.75e	+08 .991 +06
budget runtime widest	-2.516e+0 2.75 1.11e+0 5.859e+0	08 3.93 31 06 3.27 04 650 664.497	3e+07 - 0.121 2 7e+05 6.779	-6.396 22.727 3.396 9.005	0.000 0.000 0.001 0.000	-3.296 4.696 4.586	e+08 2.515 e+05 e+04	-1.74e 2. 1.75e	+08 .991 +06
budget runtime widest	-2.516e+0 2.75 1.11e+0 5.859e+0	08 3.93 31 06 3.27 04 650 664.497	3e+07 - 0.121 2 7e+05 6.779	-6.396 22.727 3.396 9.005	0.000 0.000 0.001 0.000 son:	-3.296 4.696 4.586 1.1	e+08 2.515 e+05 e+04	-1.74e 2. 1.75e	+08 .991 +06

