


PHASE 2 PROJECT

The project is
presented by
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Analysis of
movies Data Base

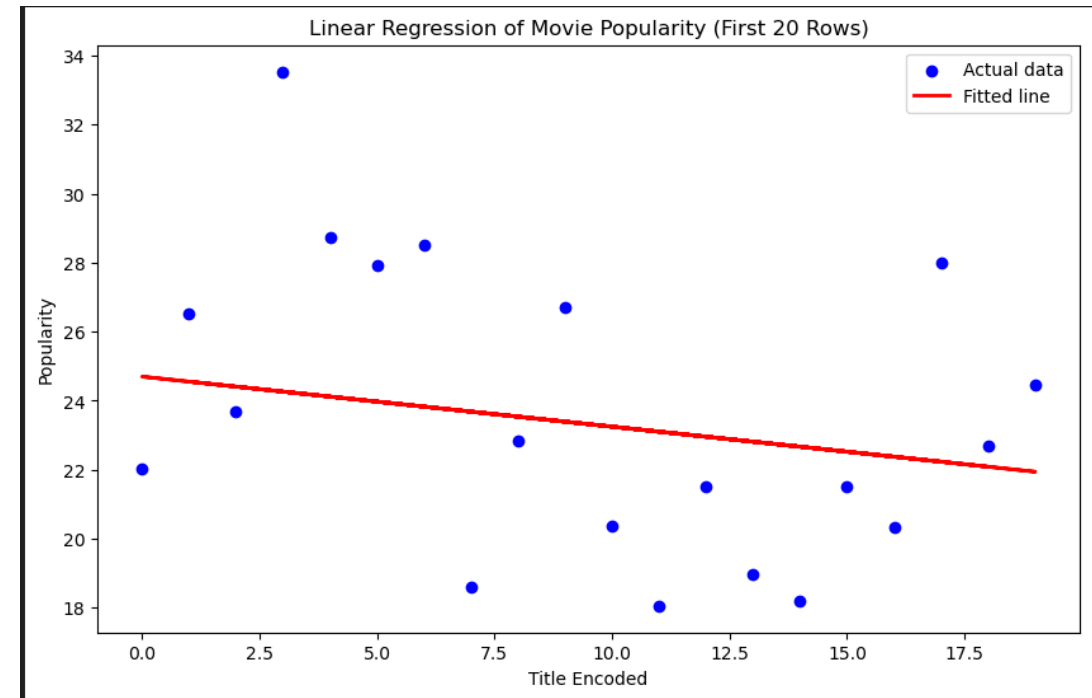


HYPOTHESIS TESTING

- Here we have our null and Alternative Hypothesis.
 - H_0 : There is no significant difference in Movie performance based on factors.
 - H_1 : There is a significant difference in movie performance based on different factors.
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DATA FOR INVESTORS.

- BASED ON POPULARITY HARRY POTTER AND HOEW TO TRAIN YOUR DRAGON ARE THE HIGHEST WITH A SCORE OF 33.533 AND 27.734 RESPECTIVELY



THE MOST WATCHED MOVIES

- FROM THIS INITIAL DATA WE FIND THAT THE TOP FIVE MOVIES THAT DID WELL ARE;
- HARRY POTTER
- HOW TO TRAIN YOUR DRAGON
- IRON MAN
- TOY STORY
- INCEPTION



RATINGS BASED ON NUMVOTES

- THIS ARE THE RATINGS FOR THE TOP MOVIES AND THEIR ID BASED ON NUMBER OF VOTES.

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16]:
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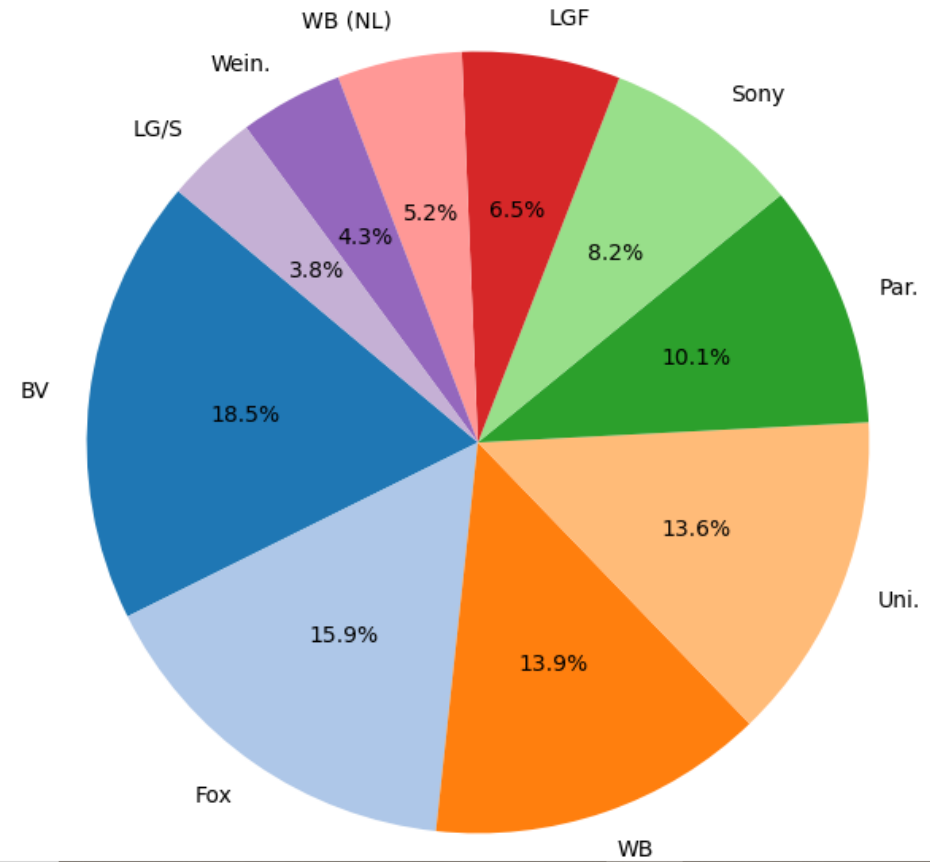
	movie_id	averagerating	numvotes
63498	tt1375666	8.8	1841066
8738	tt1345836	8.4	1387769
24920	tt0816692	8.6	1299334
38058	tt1853728	8.4	1211405
48221	tt0848228	8.1	1183655
39356	tt0993846	8.2	1035358
3140	tt1130884	8.1	1005960
25777	tt2015381	8.1	948394
60518	tt1431045	8.0	820847
63506	tt1392170	7.2	795227

WE ARE CREATING A LINEAR REGRESSION BASED ON AVERAGE RATING AND I

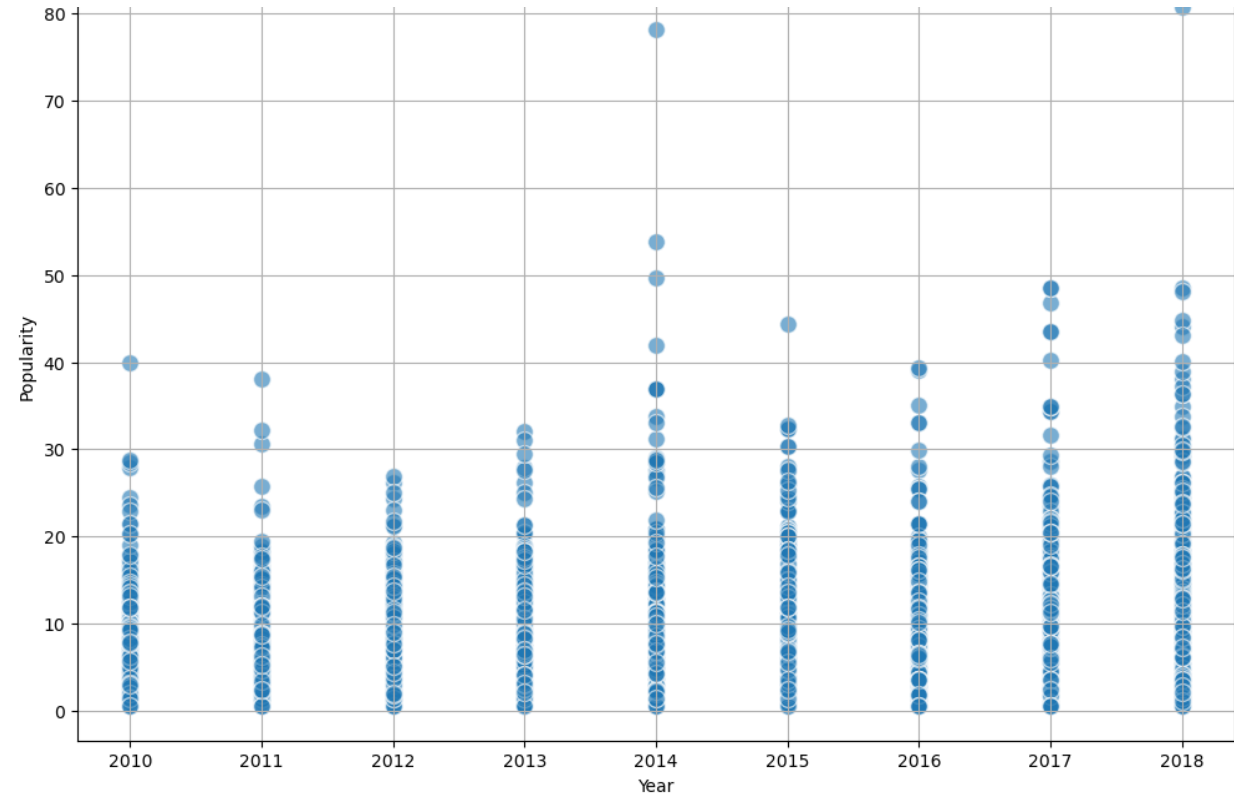
**BV STUDIOS IS
RECOMMENDED.**

It has 18.5% by vote count.

Top 10 Studios by Total Vote Count

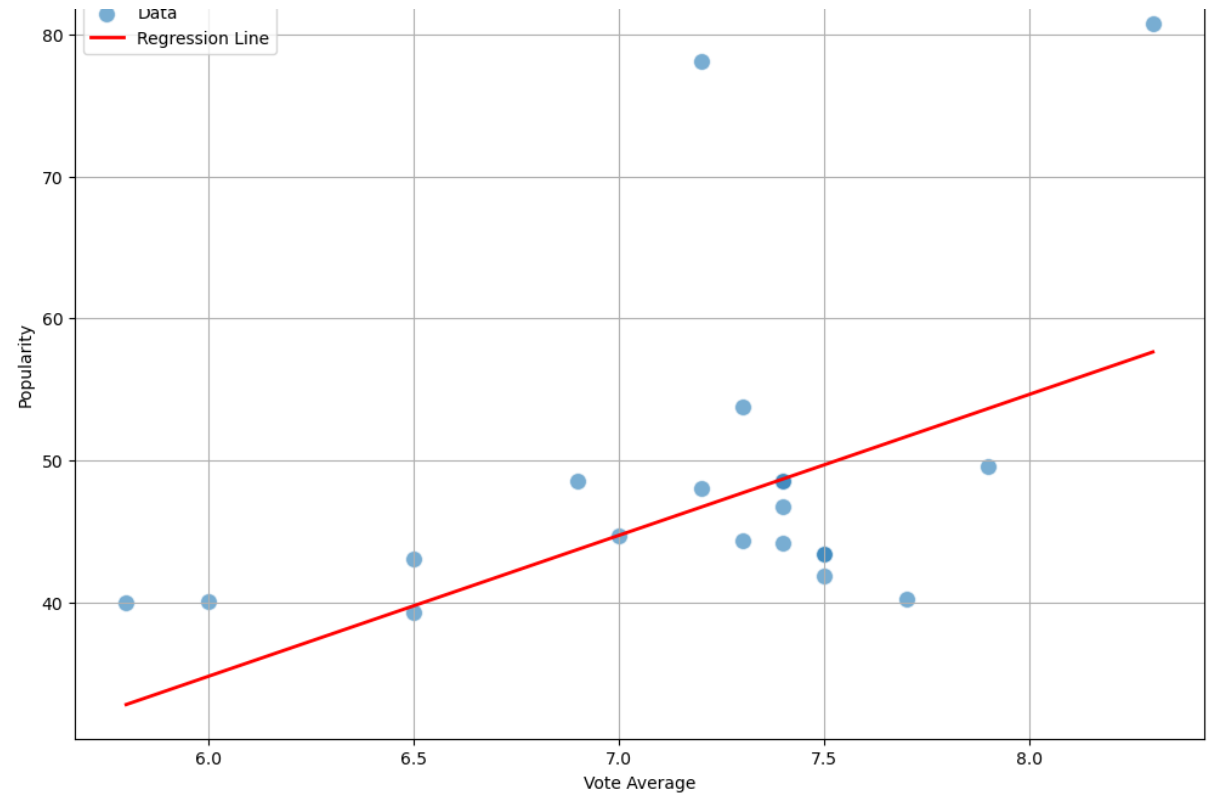


2018 HAD THE
HIGHEST MOVIES
WATCHED.



LINEAR REGRESSION BETWEEN POPULARITY AND VOTE AVERAGE.

Top 20



F-statistic: 37.76846132230437

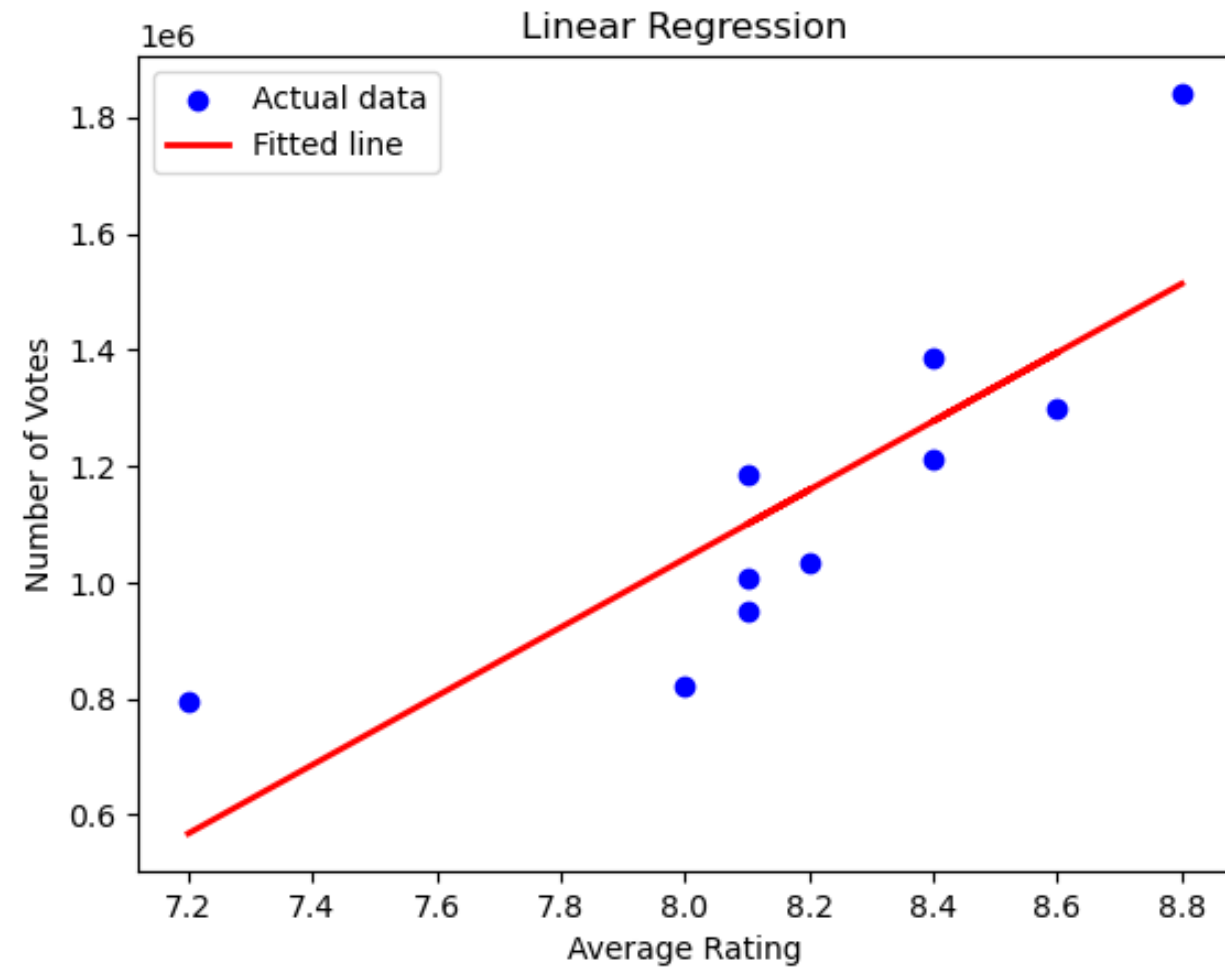
P-value: 1.2438797969740367e-30

FROM THE ANOVA WE FIND AN AVERAGE POPULARITY OF 37.768.

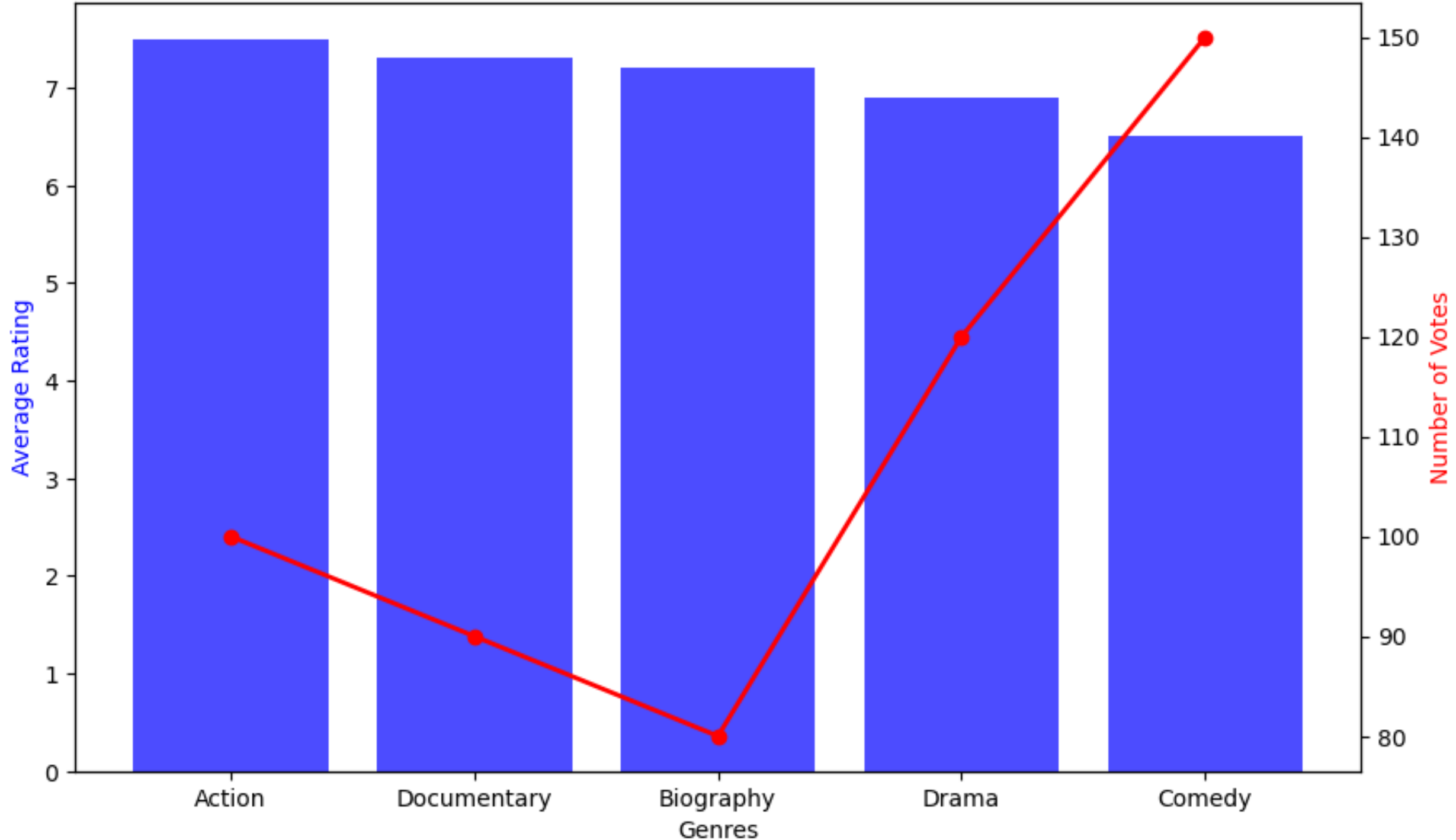



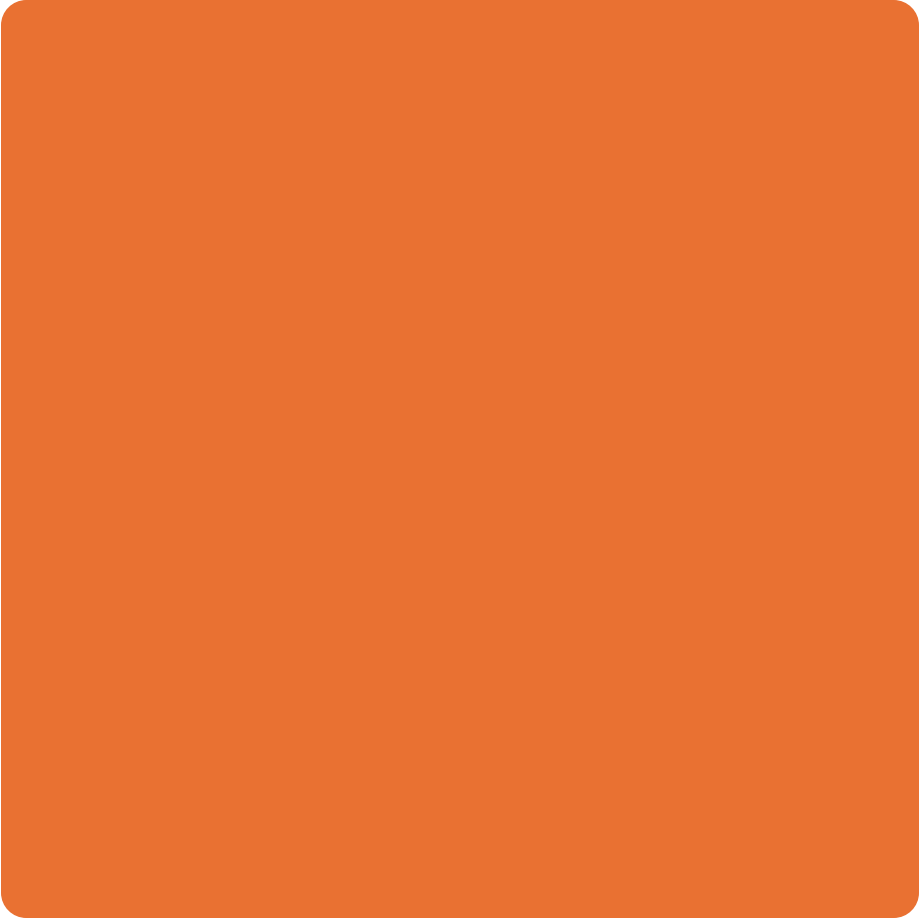

REGRESSION LINE

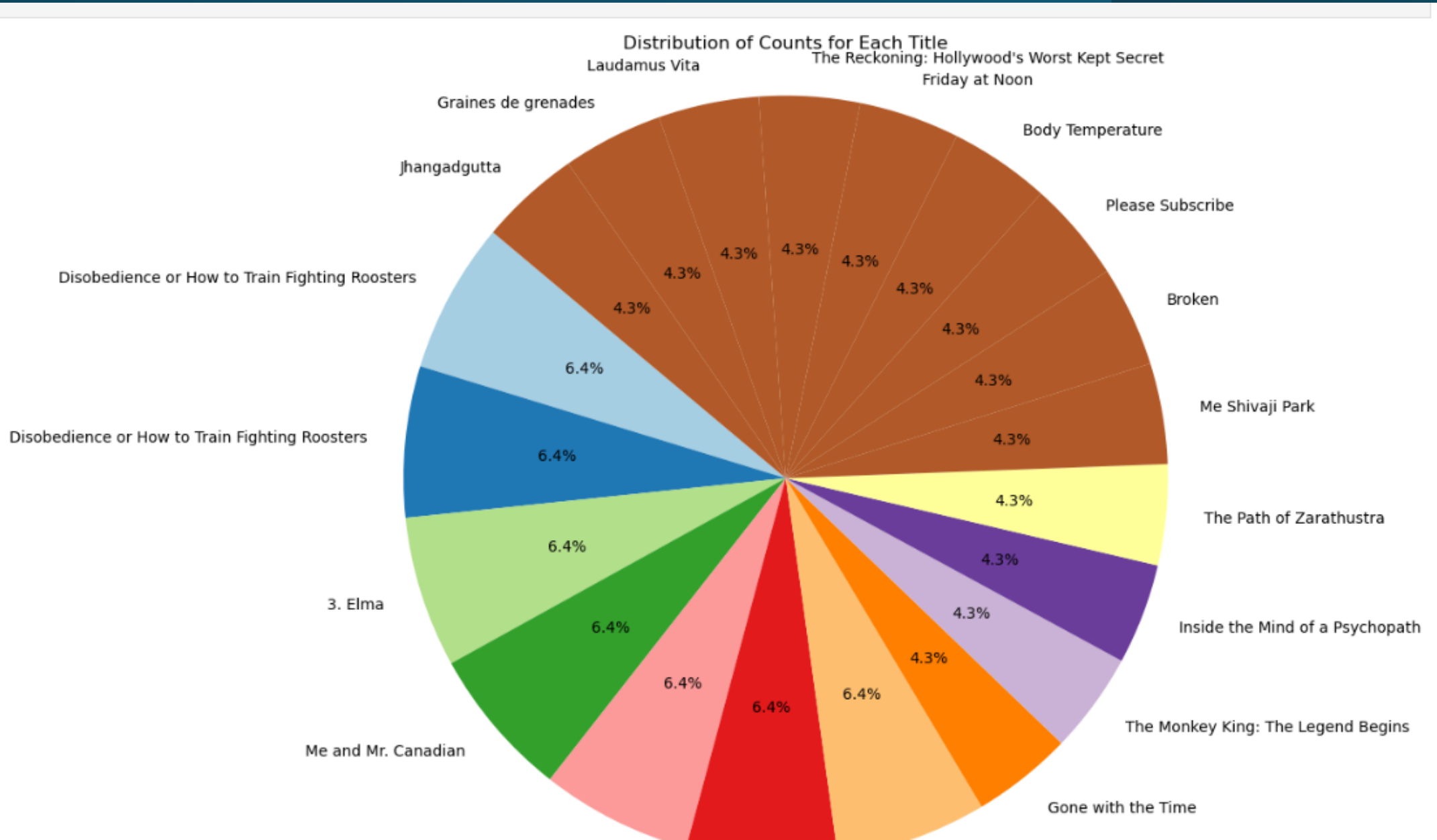
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Coefficient: 590953.1755542244



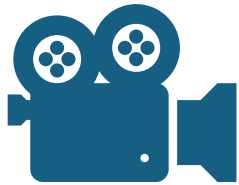
LET US MERGE ALL TABLES USING movie_id AS OUR CONNECTOR.



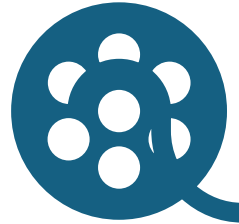
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- 
- BASED ON THIS DATA WE CAN SEE THAT ACTION MOVIES RANK FIRST EVEN THOUGH THEY HAVE THE THIRD MOST NUMBER OF VOTES WHEREAS COMEDY HAS THE MOST NUMBER OF VOTES UT HAS A LOWER RATING THAN ACTION MOVIES.
- 



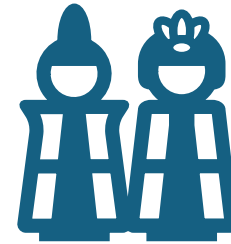
RECOMMENDATIONS



THE MOVIE PRODUCTION THAT WE
RECOMMEND IS ACTION
AND DOCUMENTARY MOVIES SINCE
THEY AVERAGE HIGHER.



WE RECOMMEND WE SHOULD RECOMMEND
TONY NEWTON TO DIRECT THE MOVIES IN THE
STUDIO AS HE HAS THE MOST TITLES WITH 238
TITLES.



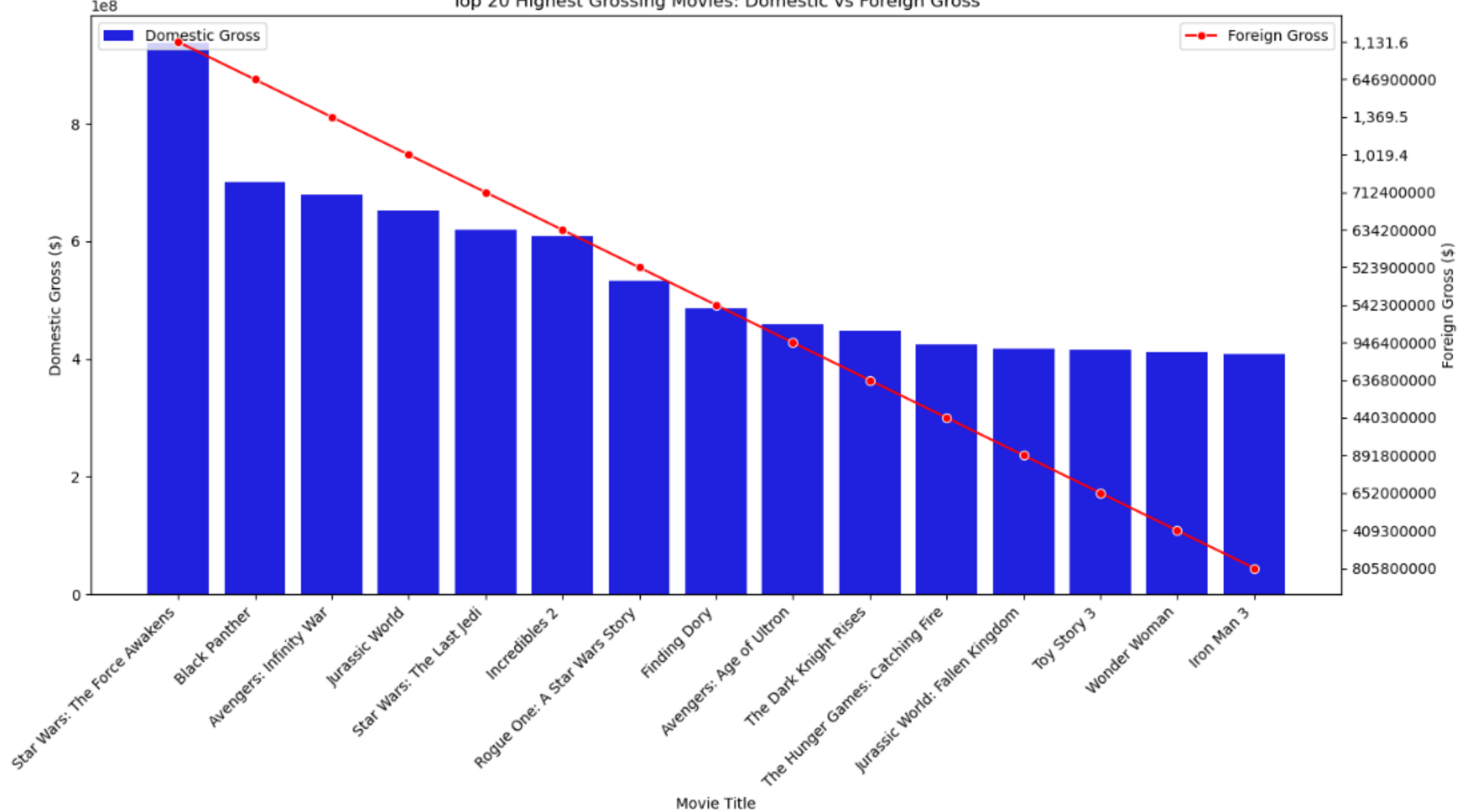
Brayan Mulato, Sergio Elias Ortiz, Ana
Tumal and Esteban Unigarro are staff to be
hired to ensure good production of the movie.

A large orange circle on the left side of the slide, partially cut off by the edge.

TO THE
INVESTORS.

- THE MOVIES TO INVEST IN ARE ACTION-SCIFI, DOCUMENTARY AND ANIMATION AS SEQUALS TO THE ACTION MOVIES.
- THIS IS EVIDENCED BY THE NEXT SLIDE.





STAR WARS WHICH IS AN SCIFI ACTION MOVIE HAS A HIGHEST GROSS BOTH DOMESTICALLY AND INTERNATIONALLY.

CONCLUSION

- WE REJECT THE NULL HYPOTHESIS SINCE THERE IS A SIGNIFICANT DIFFERENCE IN MOVIE PERFORMANCE BASED ON DIFFERENT FACTORS.

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WE REJECT THE NULL HYPOTHESIS.

- As per the data manipulation we reject the null hypothesis as we can see a significant difference in movie performance based on different factors such as; Movie producers, Genres, Title of movies, Type of movies, Rating and Number of votes.