# Data Analysis and Exploration of Movie Data For Business Recommendations to Microsoft

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# Summary

I conducted exploratory data analysis on several movie database datasets to provide recommendations to Microsoft on how best to enter the movie production business. I make recommendations on which:

- Writers and directors to work with
- Popular movie genres to focus on
- Movie studios to work with based on popularity or overall profitability

# Outline

- Business Problem
- Data & Methods
- Results
- Conclusions

#### **Business Problem**

The goal of this investigation is to provide guidance in how best to enter the movie production business to make movies in the US region.

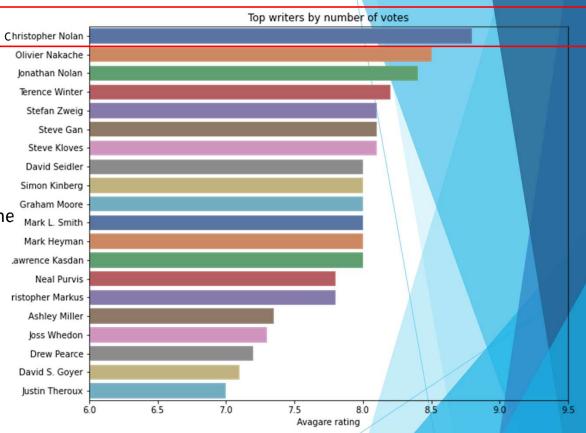
#### Data & Methods

My analysis utilized the PANDAS package within Python. It was based on ratings, titles, movie gross, profits. I analyzed US region only, and I excluded bottom 50% of movies based on number of reviews. The data was extended through the years () and encompassed these sources:

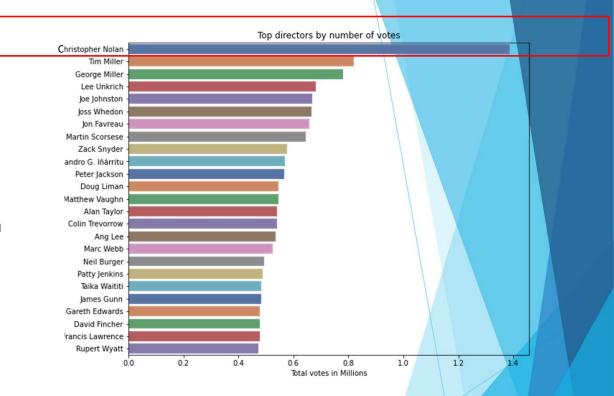
- Box Office Mojo
- IMBD
- Rotten Tomatoes
- The MovieDB
- The Numbers

My analysis indicates that Christopher Nolan is the most popular writer

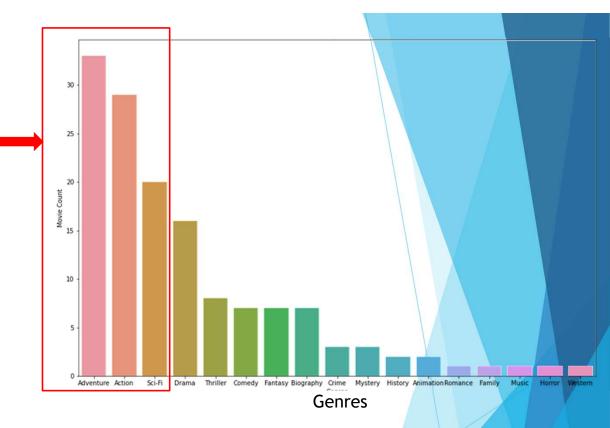
 I would recommend Microsoft to work with Christopher Nolan



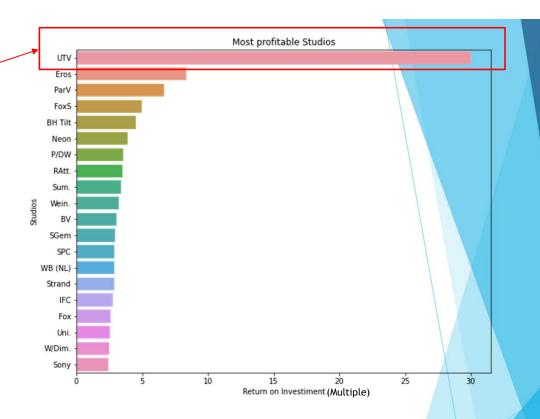
- My analysis also indicates that Christopher Nolan knows how to direct the movies as well.
- I would recommend Microsoft to work with Christopher Nolan and fill both roles as writer and director.



- From my research, the most popular movie
   Genre by far is Adventure, followed closely by action and Sci-Fi.
- It would furthermore, this Christopher Nolan has prior movie experience in this genre. We recommend pursuing movie production in these three genres.



- UTV has managed to maximize it's return on investment in movies by minimizing the movie budget while still releasing the film in the US to warm ticket sales.
- I would recommend Microsoft to analyze the methods employed by this studio and utilize them to maximize profits as we enter the movie production business.



# Conclusion

The analysis of these movie data indicates that Microsoft should work with Christopher Nolan as the writer and director of a future movie. I advise that the genre should be adventure, action, and sci-fi. I also suggest that Microsoft analyze the production styles of UTV studio to further assess how to maximize profitability as they enter the movie production business.