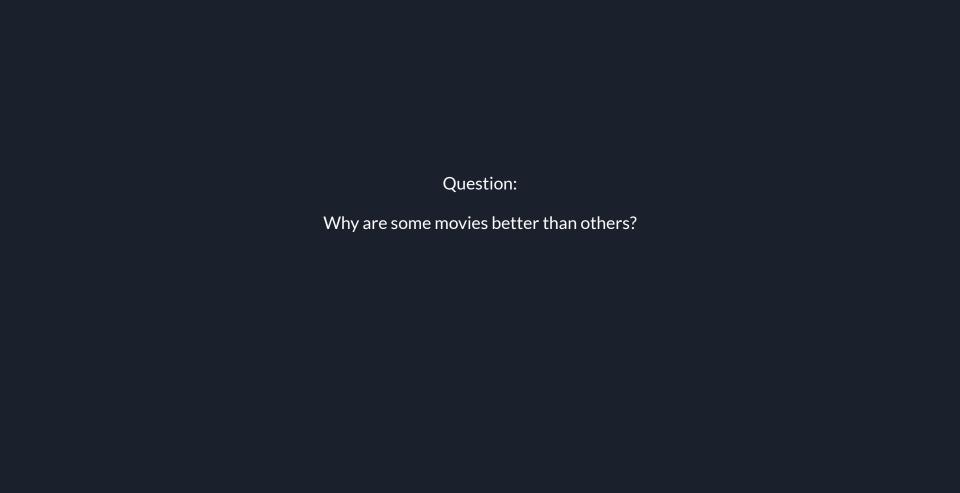
## MICROSOFT ON THE BIG SCREEN

Emmi Galfo November 7th 2022



## OVERVIEW

#### MEASURE SUCCESS IN NET PROFIT OR ROI?

- What is needed for a higher return on investment is different than what is needed for a higher net profit.
- Higher budget films in the animation, kids & family, and fiction & fantasy genres on average make more net profit
- Lower budget films in the horror, special interest, and documentary genres on average have higher returns on investment.
- Who directs and length of movie also make a difference

## OUTLINE

- Business Problem
- Data Sources
- Industry Stats
- Results
- Conclusion

# BUSINESS PROBLEM

Microsoft has decided to get into the movie industry! What do they need to do in order to be successful?



## DATA SOURCES





Rotten Tomatoes: Genre, Director, Runtime The Numbers: World wide gross, Production budget

### WHAT IS "NORMAL" IN THE INDUSTRY?

#### **NET PROFIT:**

- Average net profit: \$59 Million
- Median net profit: \$8.5 Million
- Min net profit: \$-200 Million
- Max net profit: \$2.351 Billion
- Net profit range: \$2551 Million

#### **RETURN ON INVESTMENT:**

- Average ROI: 3.8
- Median ROI: 0.7
- Min ROI: -1.0
- Max ROI: 1799.0
- ROI range: 1800.0



# Does it take money to make money?

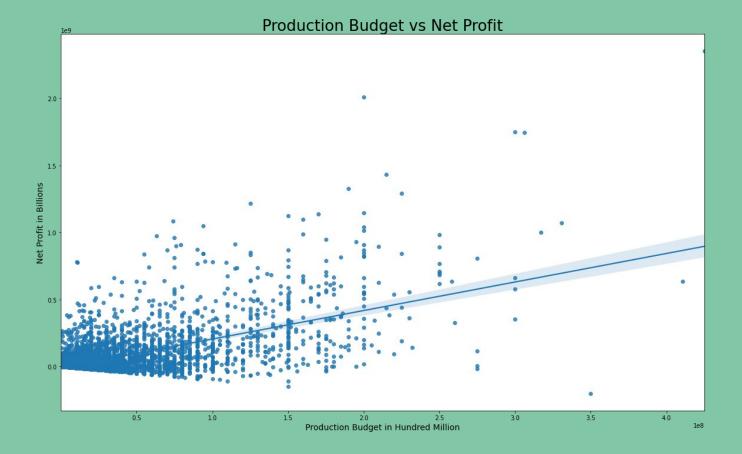


Figure 1. Higher production budgets yield higher net profits

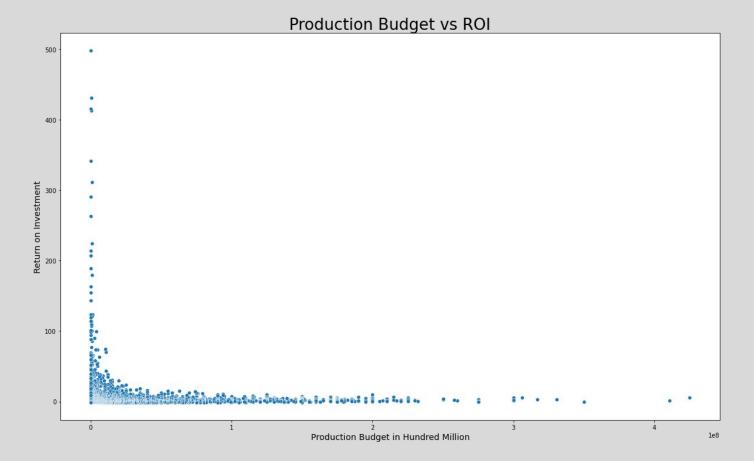


Figure 2. Lower budgets yield higher returns

# How long should a movie be?

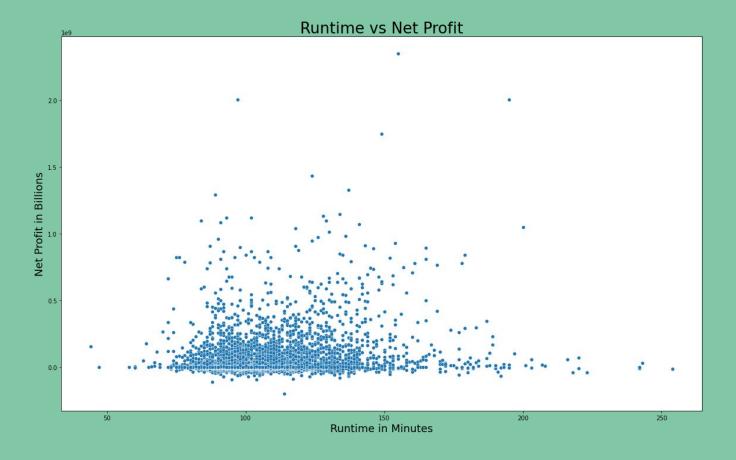


Figure 3. Scatter plot shows runtimes around 80 to 140 minutes have highest net profit.

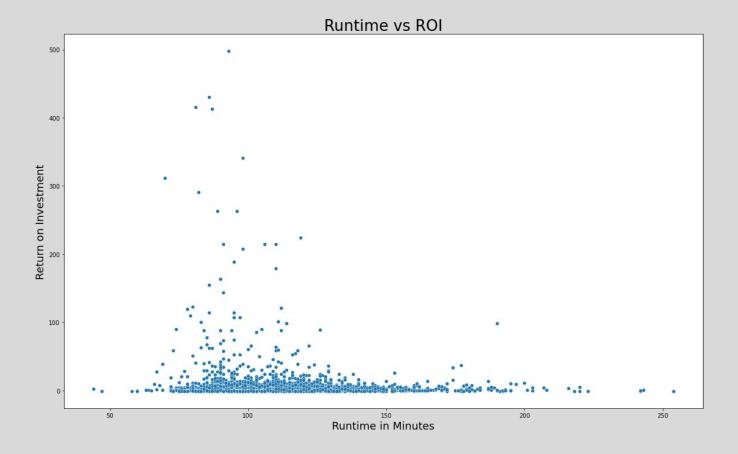


Figure 4. Runtimes clustered around 100 minutes have highest ROIs

# Which directors produce successful movies?

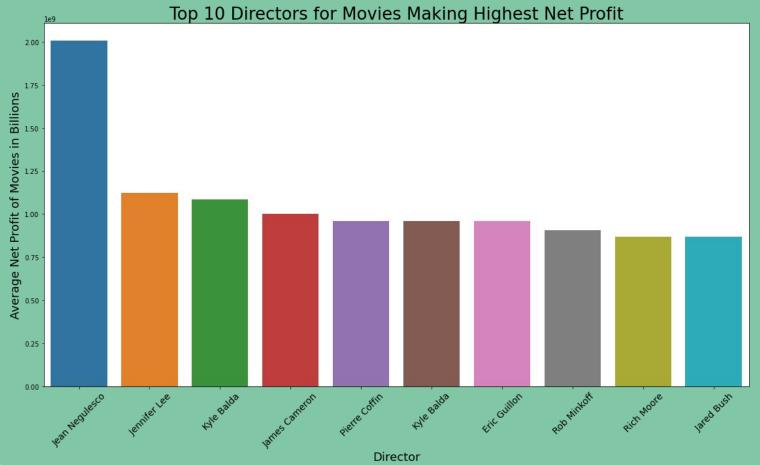


Figure 5. Movie directors whose movies made the highest average net profit.

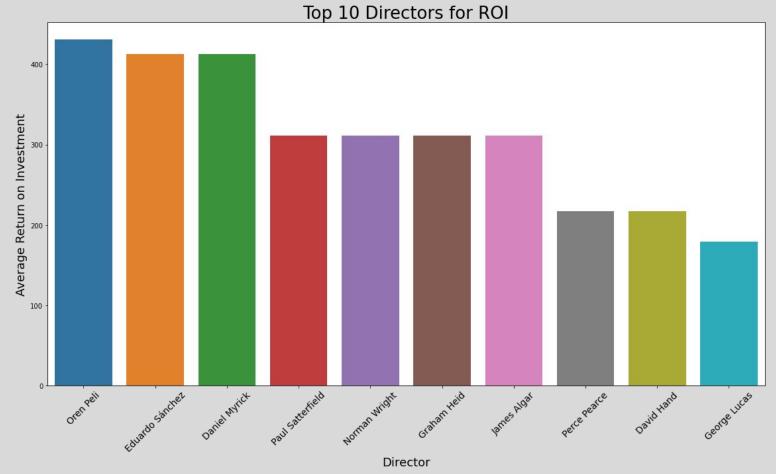


Figure 6. Movie directors whose movies made the return on investments.

What are the most profitable genres?

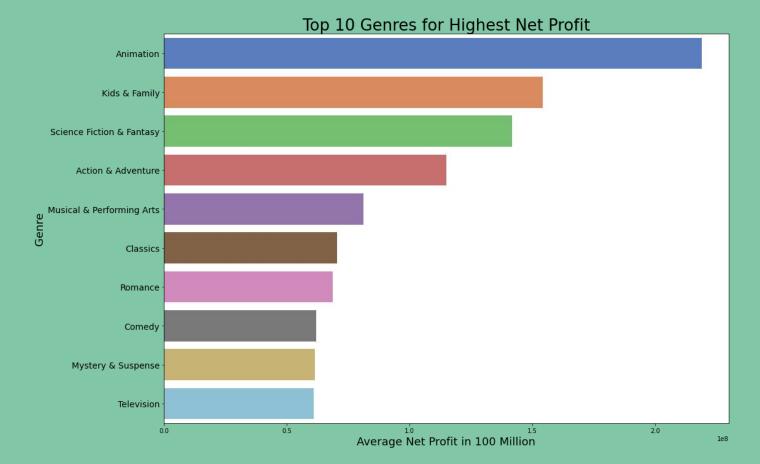


Figure 7. Movie genres that averaged the highest net profit.

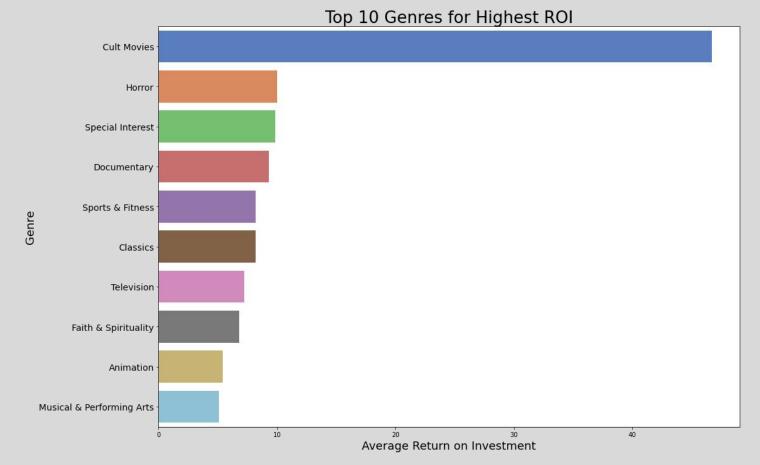


Figure 8. Movie genres that averaged the highest return on investment.

### CONCLUSIONS

### Guidelines to bring in more *net profit*:

- Higher production budgets
- Directors Jennifer Lee, Kyle Balda, and James Cameron
- Genres animation, kids & family, and fiction & fantasy
- Runtimes between 80 to 140 minutes

### Guidelines to bring in more return on investment:

- Lower production budgets
- Directors Oren Peli, Eduardo Sánchez, and Daniel Myrick
- Genres Horror, Special Interest, and Documentary
- Runtimes around 100 minutes

### LIMITATIONS

Due to time constraints, there are more factors that I would take into consideration before feeling confident about my recommendations.

Future projects should take into account standard deviation and inflation. Error bars should also be placed on bar graphs to help analyse data more effectively.

# Thank you!

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