Microsoft Movie
Analysis

by Valentina Valdez



Presenter



Valentina Valdez

Data Scientist





Agenda

- Summary
- Business Opportunity
- The Data
- Results
- Conclusion
 - Recommendations
 - Next Steps

Summary

This analysis of films between **2010** and **2019**, which uses **descriptive statistics** and **data visualization**, reveals that Microsoft should:

- Invest in mostly high budget films >>, with a mix of mid budget films.
- Select directors with experience delivering
 high net profit sor have received
 high critical acclaim ?.
- If possible, hire directors that can do both things simultaneously.

Why these dates? To ensure that the conclusions are relevant to today's filmmaking conditions.





Business Opportunity

OR HOW TO MAKE MONEY MAKING MOVIES

Making movies is a risky business! There are many factors to come into play to make a successful film.

Ultimately, Microsoft's goal is to:

- maximize profit
- 🔹 increase positive brand awareness 🙌



Business Opportunity: 3 Major Keys 🥕



Ultimately, this is a business opportunity and we should look at this venture from a **business lens**.

In filmmaking, the important factors are:

- Production budgets
- Net Profit
- ROI



Winning awards would **legitimize** Microsoft as a studio and make it a contender in the filmmaking space. There is a difference between Hallmark and HBO.

Per <u>Atlantic Studios</u>, awards provide films (and studios) with:

- Credibility
- Boost in sales



The director is one of the earliest people attached to new film projects.

What do directors do? They:

- Interpret scripts
- Hire cast and crew
- Follow budgets and schedules
- Coordinate with all stakeholders to create the final product

In short, a director is like a **project manager**.

The Data







IMDB

- Launched in 1990
- Owned by Amazon since 1998
- Houses a large amount of movie data like movie titles, directors, writers, regions, languages, and release dates.

The Numbers

- Started in 1997
- Largest freely available database of movie business information
- Contains information about movie titles, production budgets, and gross revenue

The Academy Awards

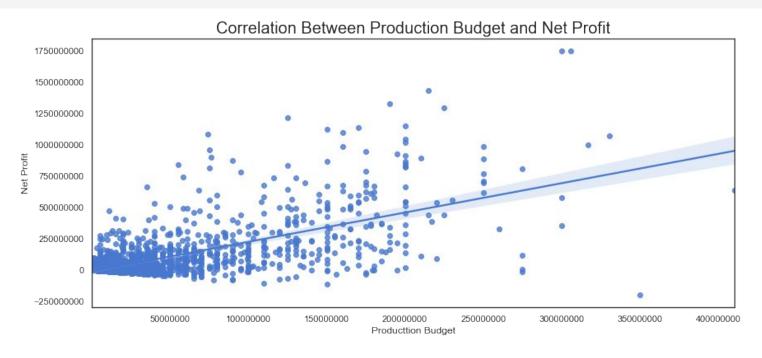
- Data created by scraping the Academy database for a Kaggle competition.
- Most prestigious filmmaking award in America
- Contains data on Oscar nominees and winners since 1927



Results

What is the right budget to maximize profits?



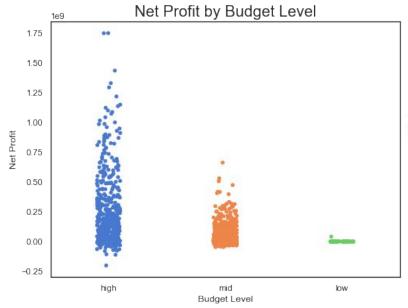


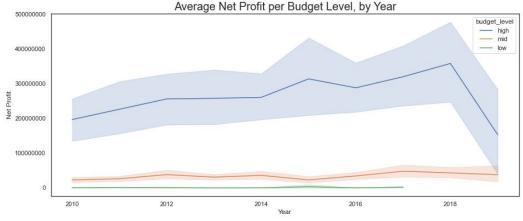
a - **Moderate positive correlation:** the more you spend, the more you *can* make

What is the right budget to maximize profits?



Production Budget Categories
Low < \$5m Medium \$5m - \$50m High > \$50m

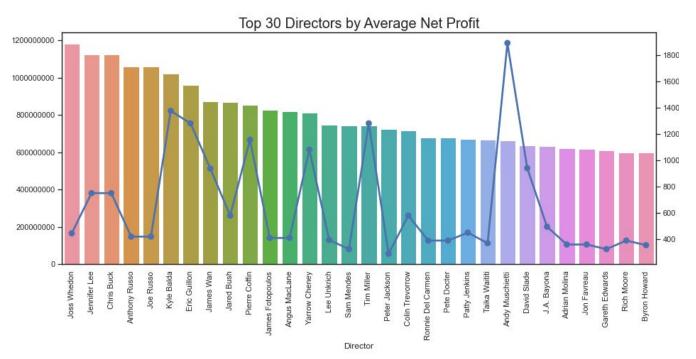




✓ **High budget films** have a much higher earning potential

Which directors can deliver high profits? 💰





Highlights:

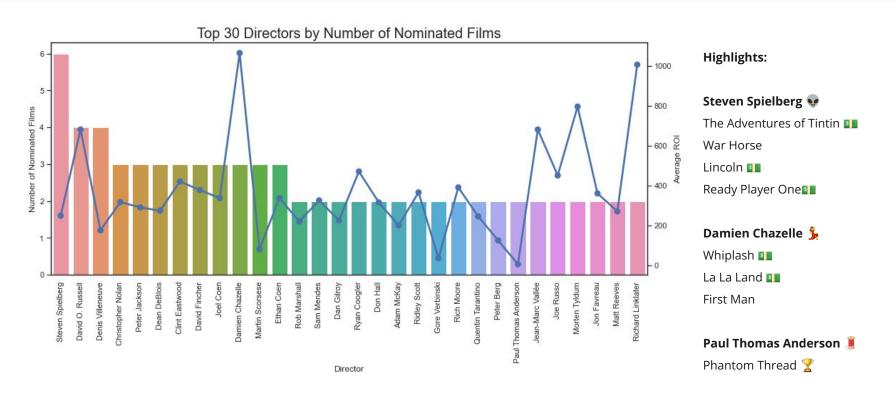
Joss Whedon - 2 x Avengers 🦸 High gross + very high production budgets = Lower ROI

Andy Muschietti - 2 x It 🤡

Smaller production budget + high gross = Higher ROI

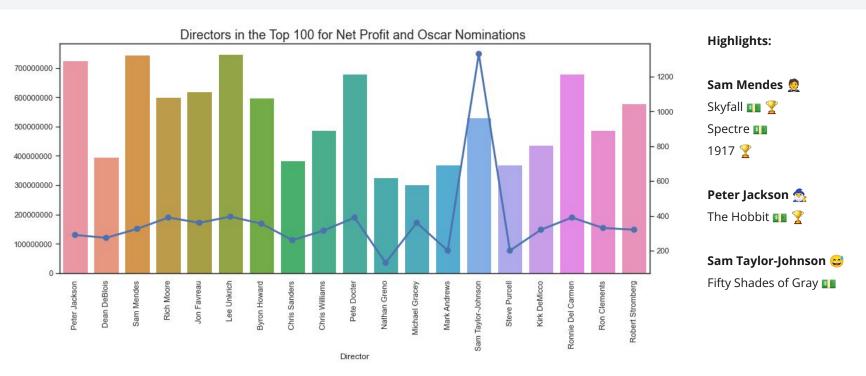
Which directors can deliver acclaimed films? 🏋





Are there directors that do both? 🦄







Recommendations

- Invest in mostly **high budget films >**, with a mix of **mid budget films**.
- Select **directors** with experience delivering **high net profit o** or have received **critical acclaim ?**.
- If possible, hire directors that can **do both** things simultaneously.

 (They exist! 3).

Next Steps

- Investigate other **filmmaking talent a**side from directors.
- Research movie by **genres .**

2 Look into the role of **intellectual** property @ as a success factor.

Thank You!

