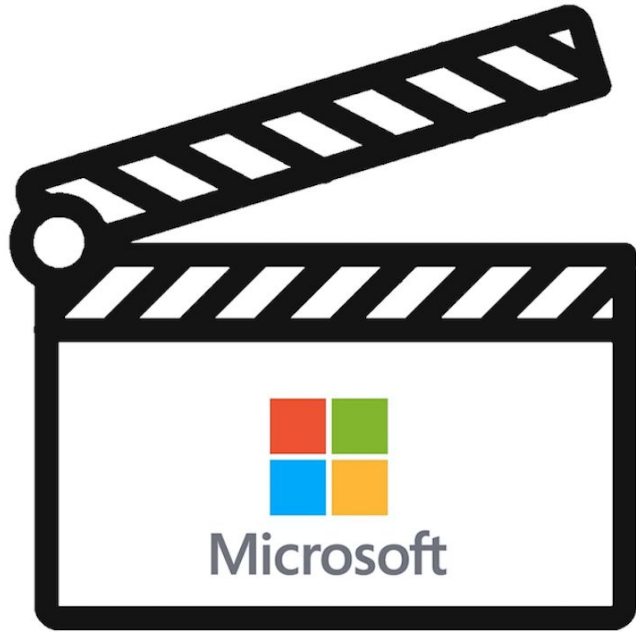


Making Movies at Microsoft



Contributors: Alaska Lam, Derek Davis,
and Jeremy Lee

July 23, 2020

Problem Statement:

- Media and tech companies alike are now creating lots of original video content.
- Microsoft has decided they want to create original content as well and created their own movie studio.
- Unfortunately, Microsoft has no prior knowledge of the movie industry so they don't know how to move forward in creating content.
- In this presentation, we will investigate the practices that are foundational for a profitable/award winning film.



Business Value:

- A successful movie studio will create a new revenue stream for Microsoft
- Increase subscription user base by offering exclusive content to those with Microsoft 365 and Xbox Live subscriptions
- A successful movie studio can improve brand recognition which can in turn help with the promotion/sales of already existing Microsoft products
 - For example, think of a popular superhero relying on Microsoft products to save the day



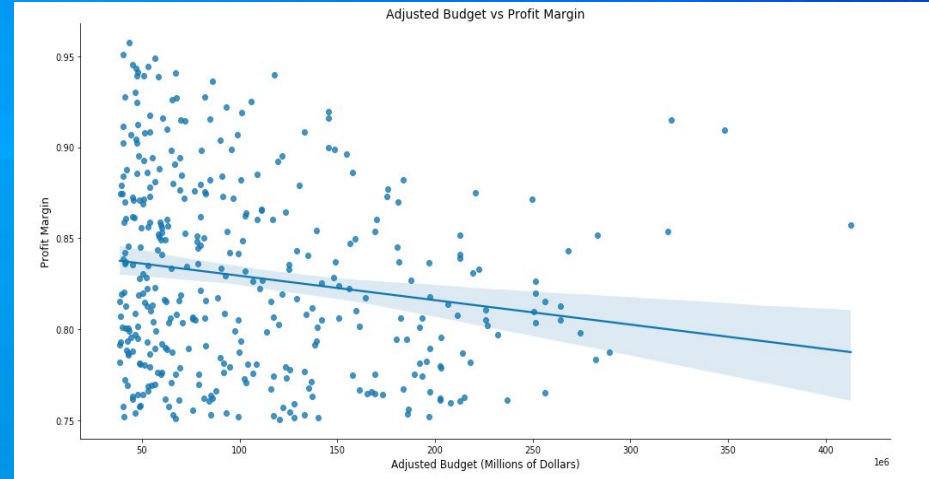
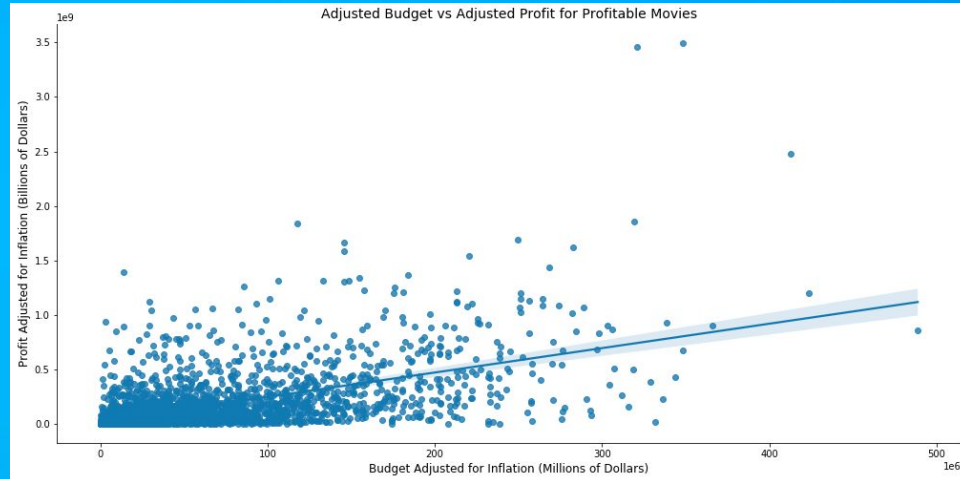
Methodology:

- Analyze past movie data to make recommendations to Microsoft on how to be successful in the movie industry
- Some of the topics we will explore:
 - Budgets for high profits and awards
 - Best time to release a movie
 - How to divide budget between genres
 - Which ratings are most profitable by genre
 - Which Actors and Directors are most valuable
 - Which studios are going to be the biggest competition



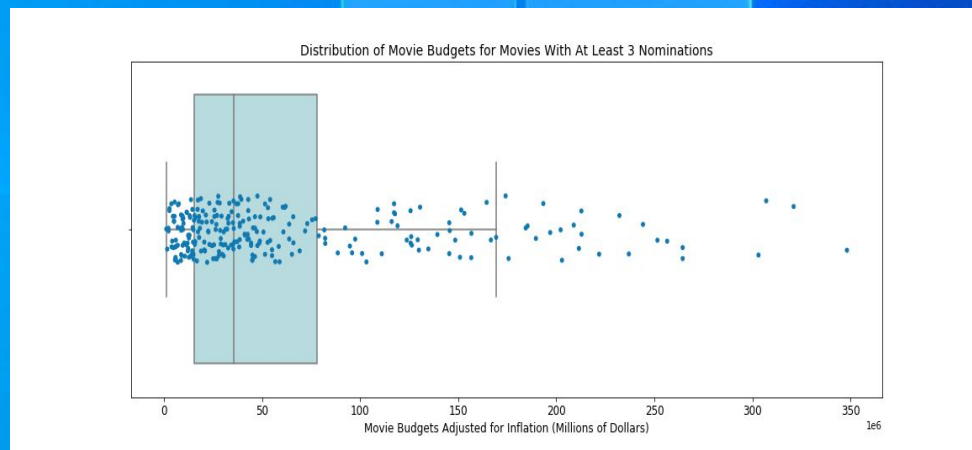
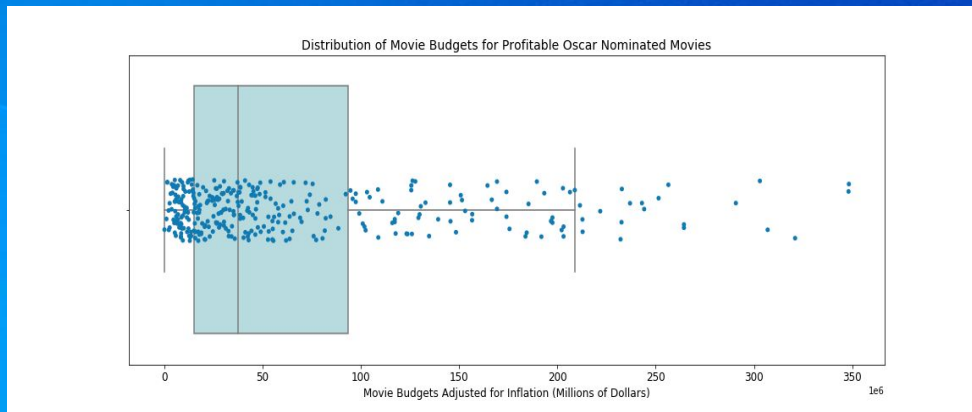
Recommendation 1:

- Our analysis shows that median profit margin for all profitable movies is 67%.
- We recommend a budget of \$82,250,000 which correlates with an 80% profit margin and lessens the risk of reducing the profit margin by spending too much.
- The top 25 most profitable movies ever only have a slightly higher median profit margin of 84% so 80% makes Microsoft competitive



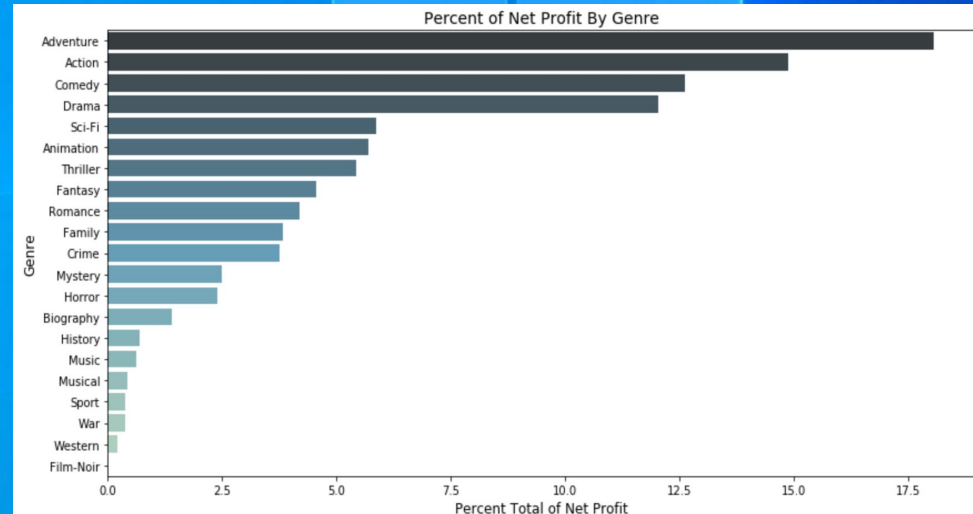
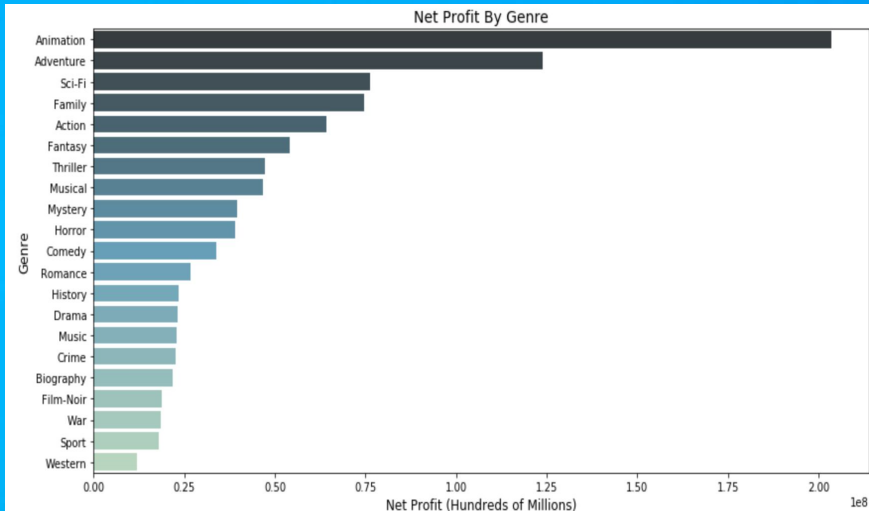
Recommendation 2:

- Oscars are the most prestigious award in the industry!
- In to win 1 award, you will need to be nominated for 3.
- The median budget of a movie with at least 3 nominations is \$35,465,000.
- Microsoft should spend at least \$35,465,000 to make and Oscar winning movie.



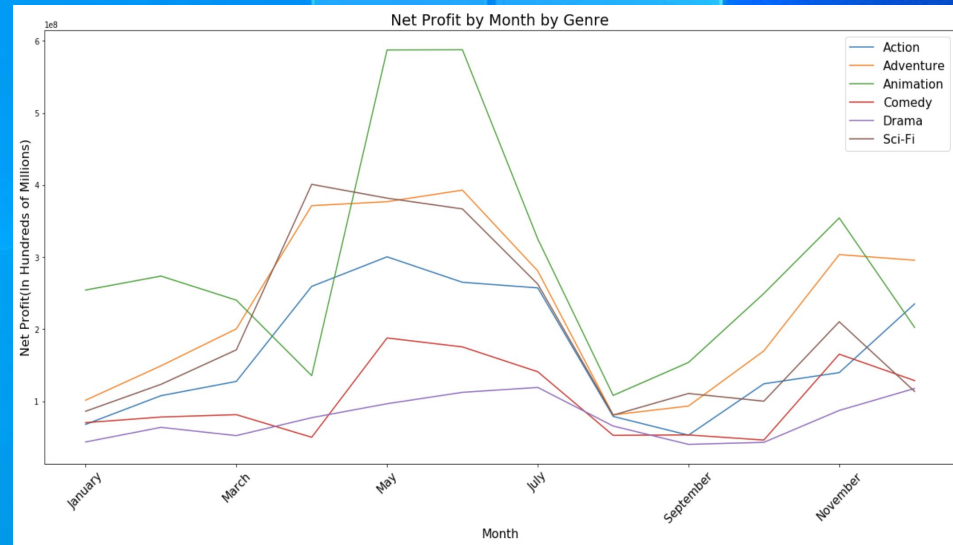
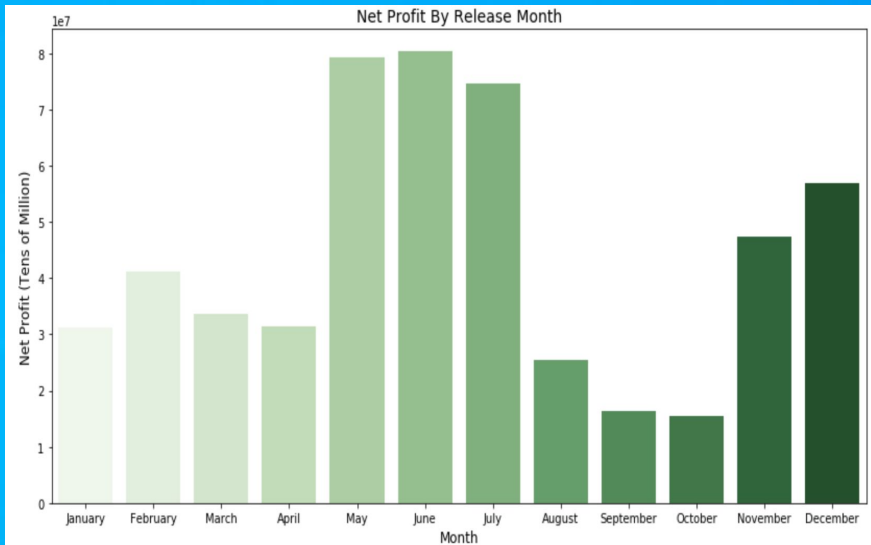
Recommendation 3:

- Our analysis shows that 69% of the total net profits across all genres come from just the top six; Action, Adventure, Animation, Comedy, Drama, and Sci-Fi
- We would recommend focusing our projects on the six genres listed above, with a further recommendation to focus on Animation and Sci-Fi due to lower market saturation and high median net profits.



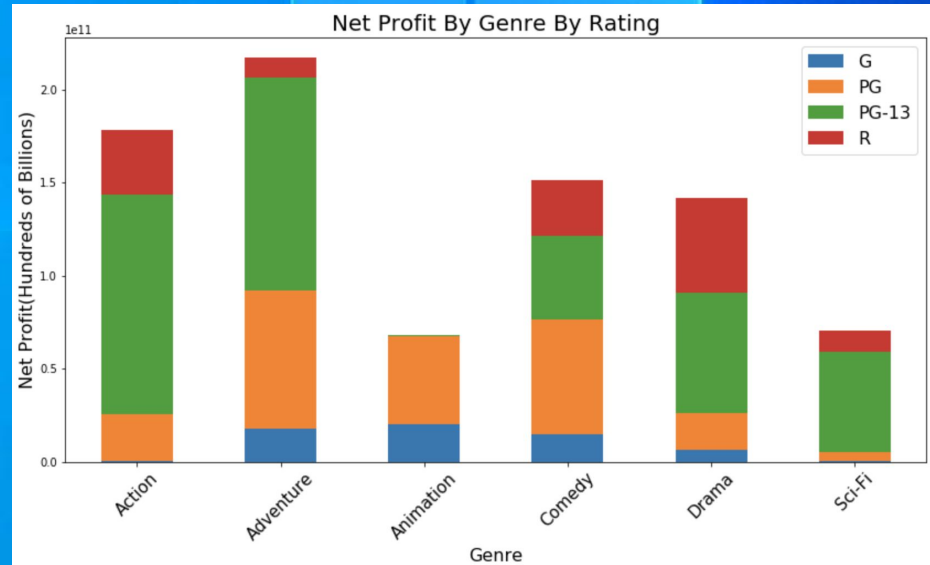
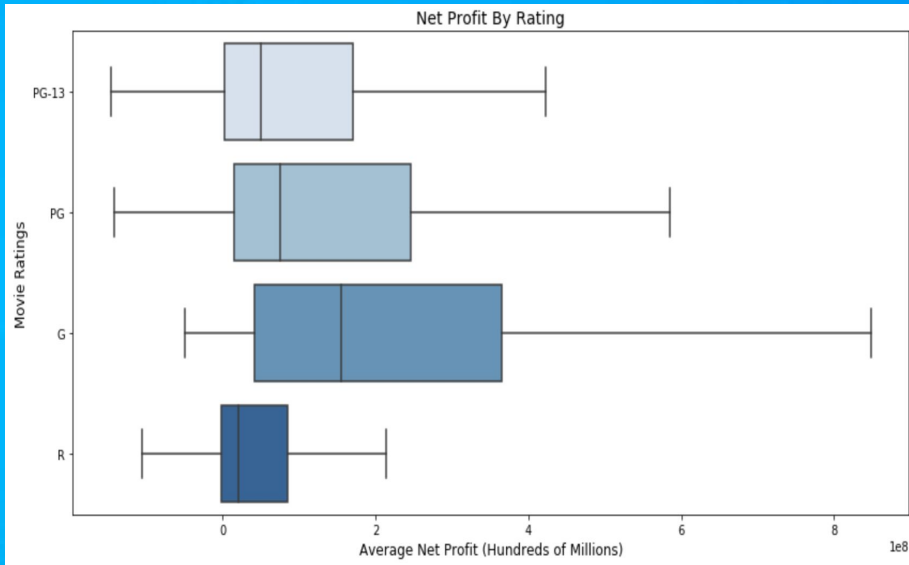
Recommendation 4:

- We recommend that Microsoft release the bulk of their movies, especially Animation, during the summer months.
- Adventure, Drama and Comedy movies would see similar success if released in November, but the recommendation remains to focus on summer.



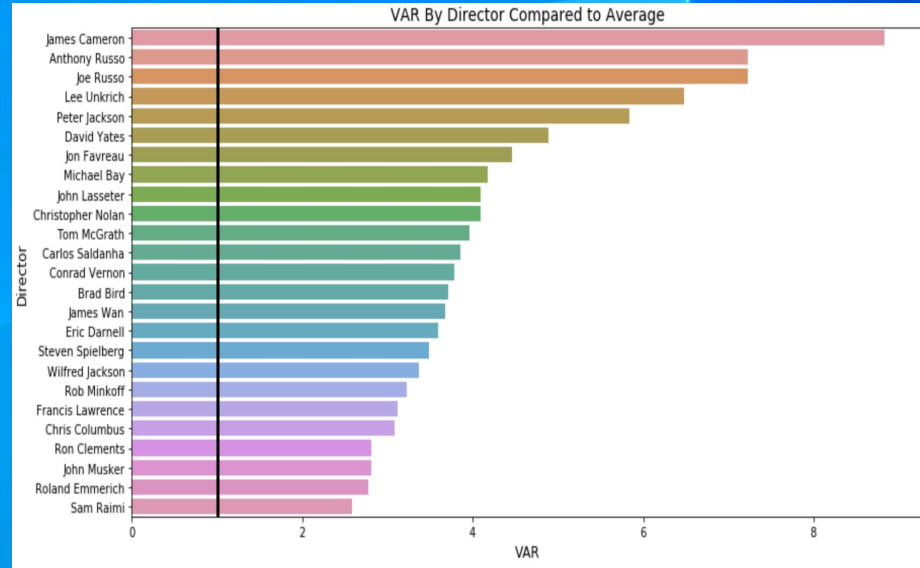
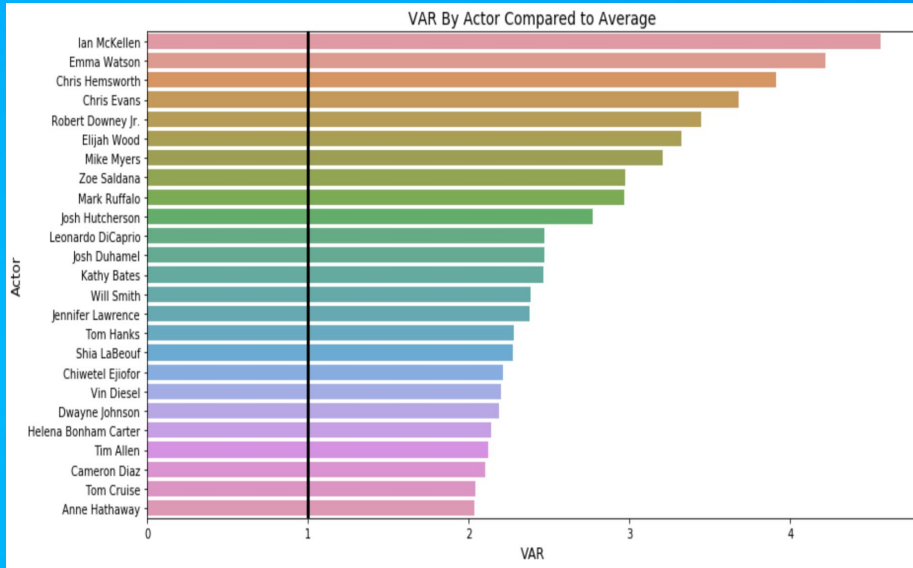
Recommendation 5:

- We recommend that Microsoft take into consideration the rating of the movie based on the genre and target audience. If making animation movies, it is wise to stick to a G or PG rating, otherwise PG-13 tends to have the most success.



Recommendation 6:

We recommend that Microsoft focus their cast and crew search to individuals who consistently score at least 1.0 on the VAR score. We can, with a high level of confidence, conclude that these individuals will elevate the overall production.

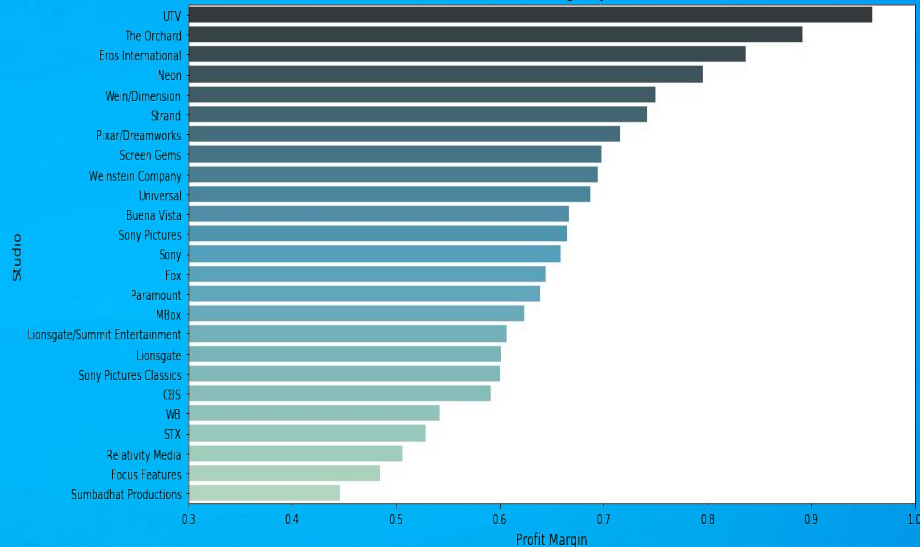


VAR = Value Above Replacement. Average net profits from Actor A / Average Net Profits from all movies

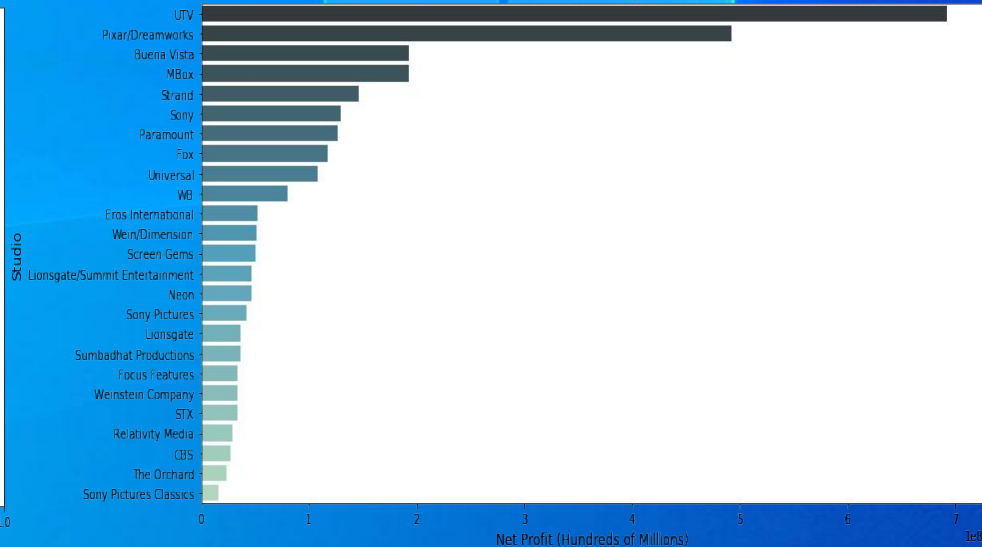
Recommendation 7:

If Microsoft wishes to be in the top 50% of these 25 studios listed below, we recommend they should aim for a profit margin of 66%, which corroborates our prior recommendation, and a net profit of slightly over 50 million per movie to compete with the top existing studios.

Median Profit Margin By Studio

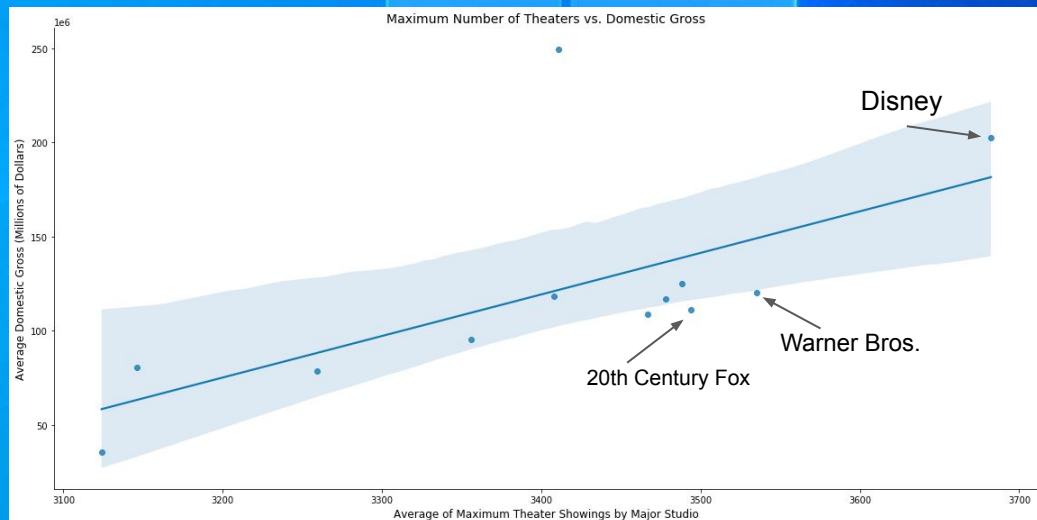
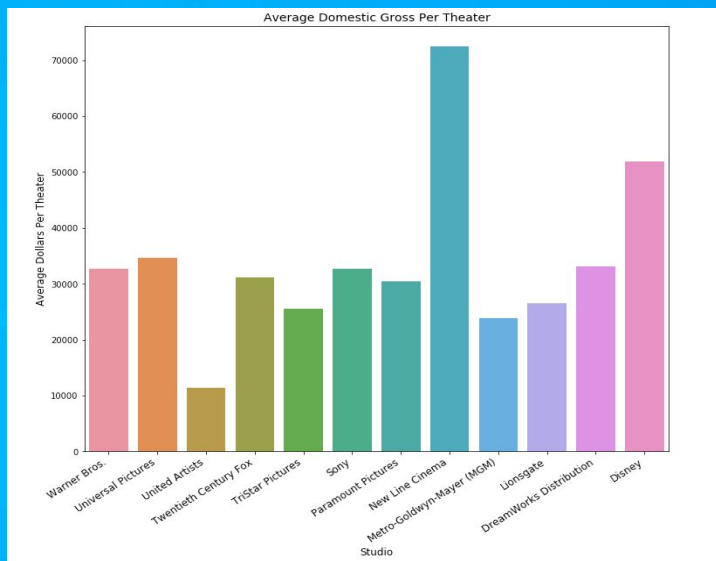


Median Net Profit By Studio



Recommendation 8:

- We first look at Studio performance per theater.
 - We don't consider New Line Cinemas because they only have 7 of the 1000 movies in this data set.
- Disney and Warner Bros. are the two clear after incorporating award data.
 - Disney is the best among them all with an average domestic gross of \$78,797 per theater and a Oscar win rate of nearly 60%.
- Microsoft needs to target: 3818 theaters at a movie's peak and \$78,800 per theater



Future Considerations

- Analyzing profit and profit margins for movies released on holidays or on holiday weekends
- Does the opening weekend box office gross have a strong correlation with the profit?
- Analyzing VAR for producers in addition to actors and directors
- How much of an impact does premiering a movie at a film festival (i.e. Sundance) have if that movie has a subsequent major box office release?



Thank You!

