

Aiding Microsoft's new studio into the movie world

By Jonah Devoy



For my analysis, I reviewed high-profiting movie data elements to see what makes them successful. This analysis will help you determine what movies to produce considering movie genre, market saturation, and directors to hire.

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Business Problem

Here are three factors you should look at before greenlighting your production:

- Genre Profitability
- Market Saturation
- Movie Directors





Data Understanding



tn.movie_budgets.csv

- Movie Title
- Production Budget
- Domestic and Worldwide Gross



imdb_top_1000.cs



- Movie Title
- Budgets and Gross
- Directors and Actors
- Year Released
- IMDB Ratings

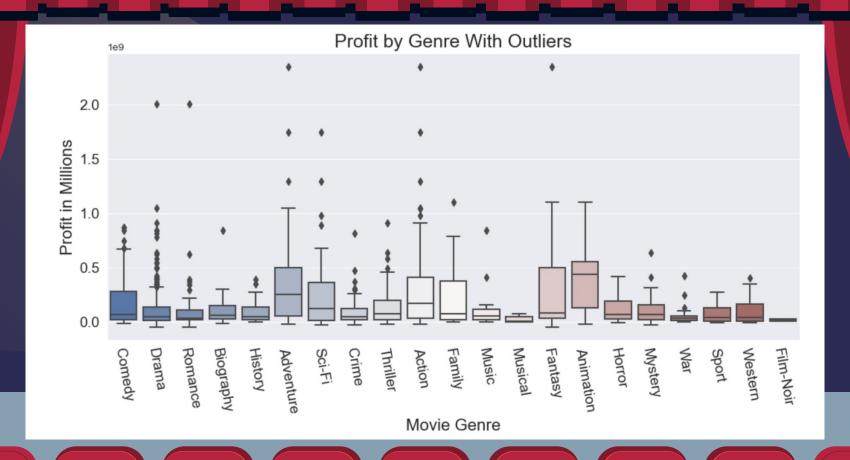


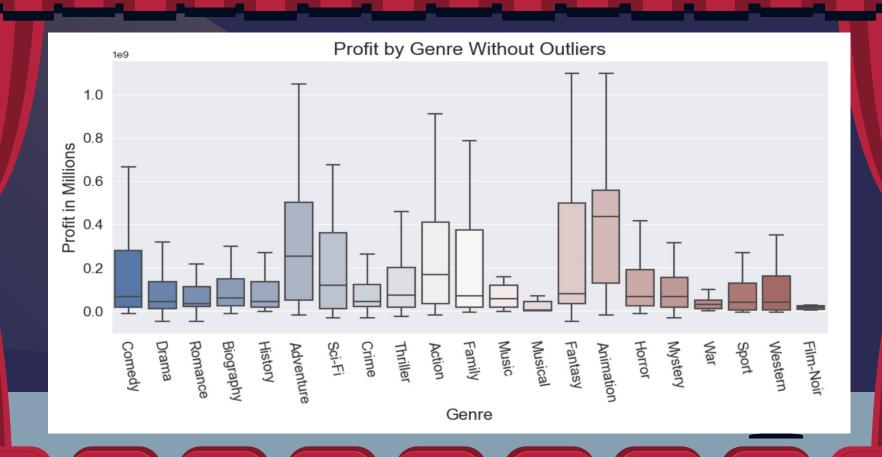
Data Preperation

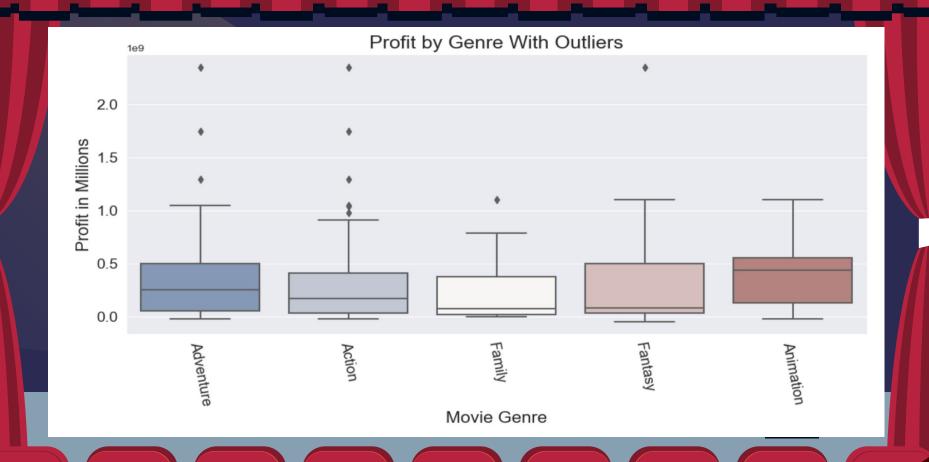
This process utilized descriptive statistics as well as visualizations to elicit trends in the data and determine what makes a movie successful.

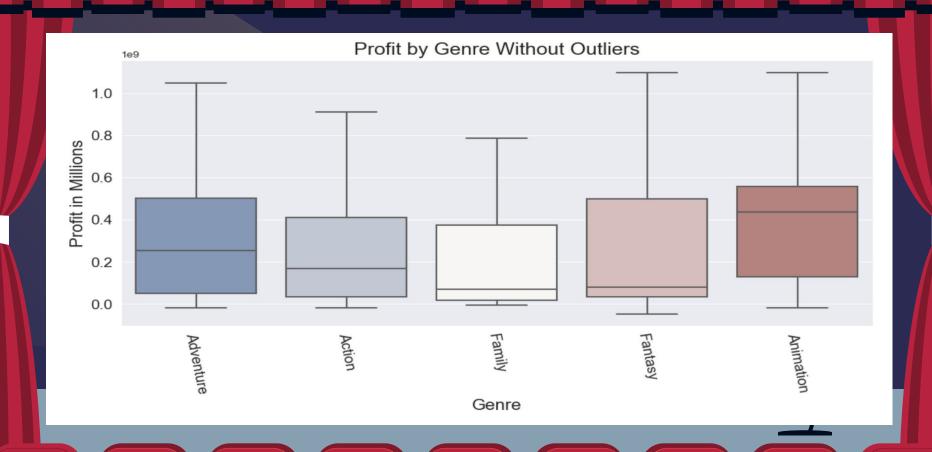








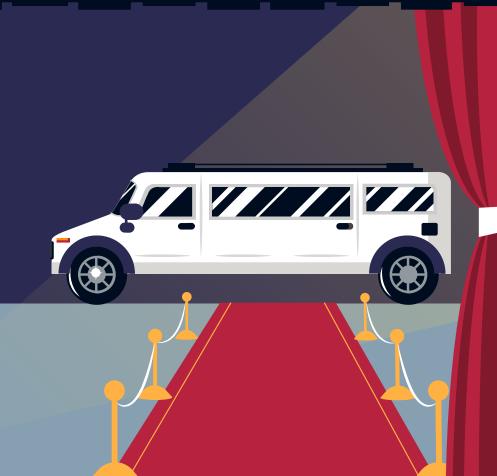




"Based on the data visualizations provided its safe to say action, adventure, fantasy, family and animation profit the most."

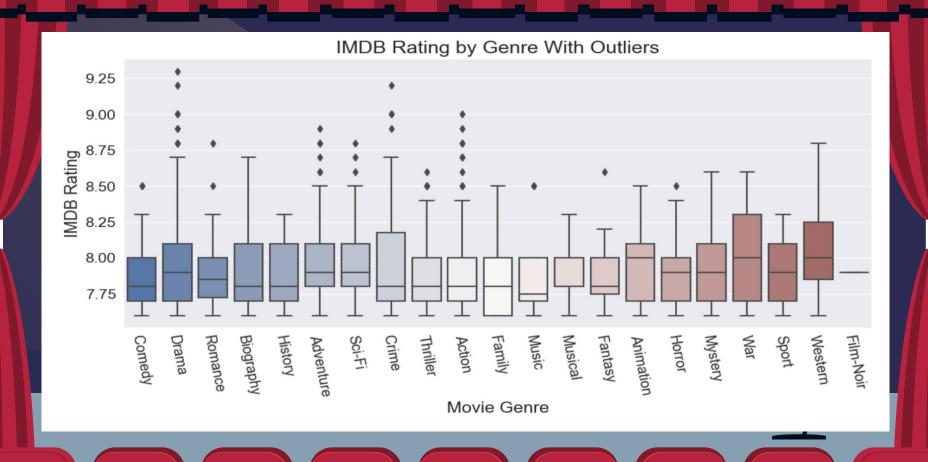
-Jonah Devoy

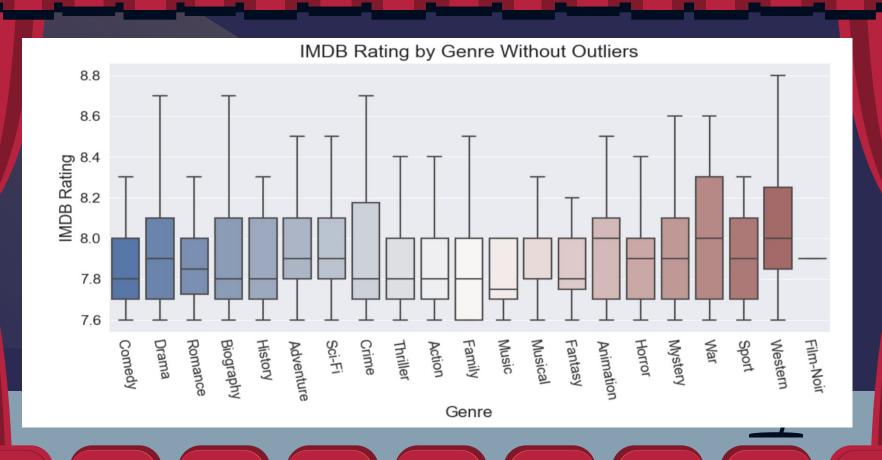


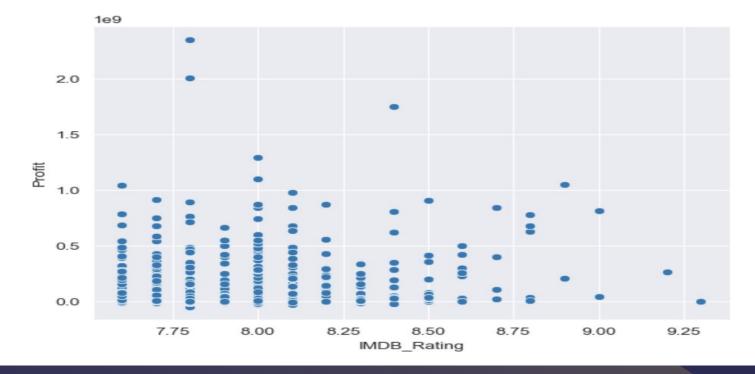


What about IMDB Ratings? Is this useful data?









	Profit	IMDB_Rating
Profit	1.000000	0.163062
IMDB_Rating	0.163062	1.000000

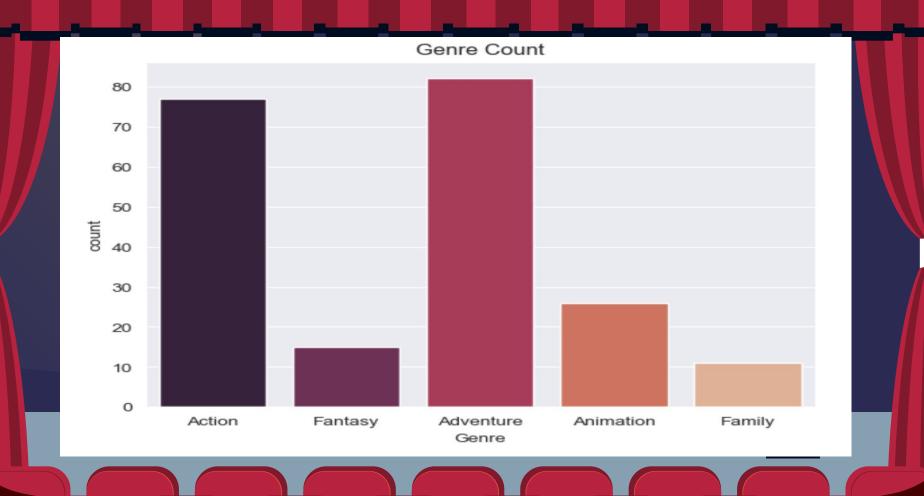




Question: 2

Market Saturation

Which of the 5 most popular genre of movies would stand out against competing movie types?



Animation **Fantasy Family**





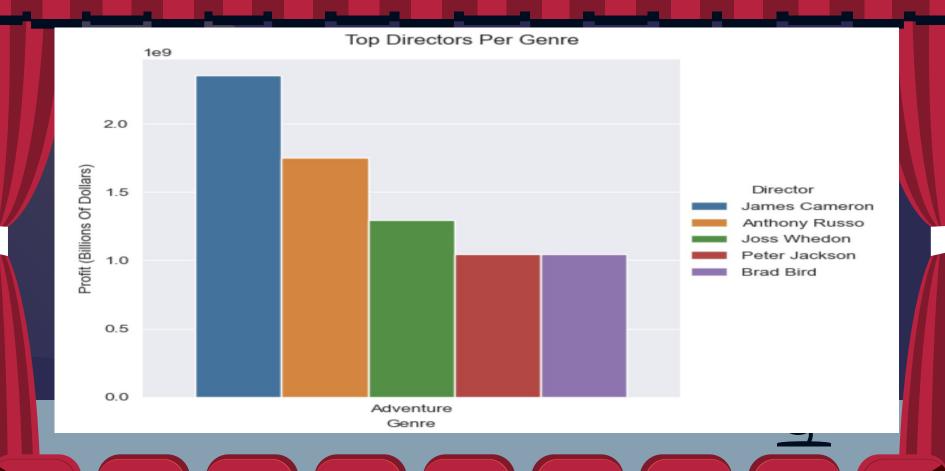


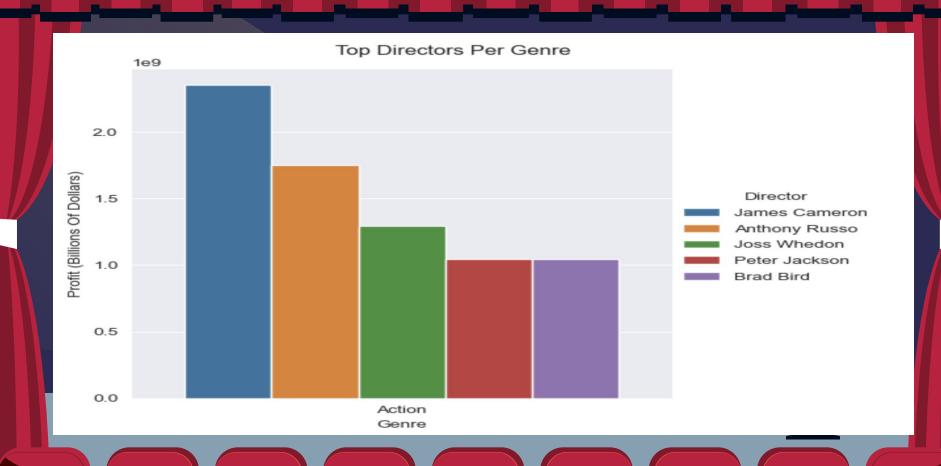


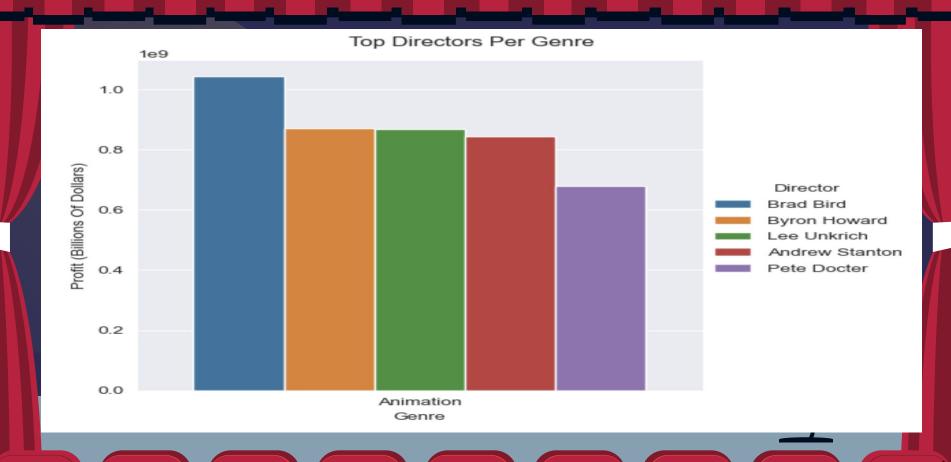
Question: 3

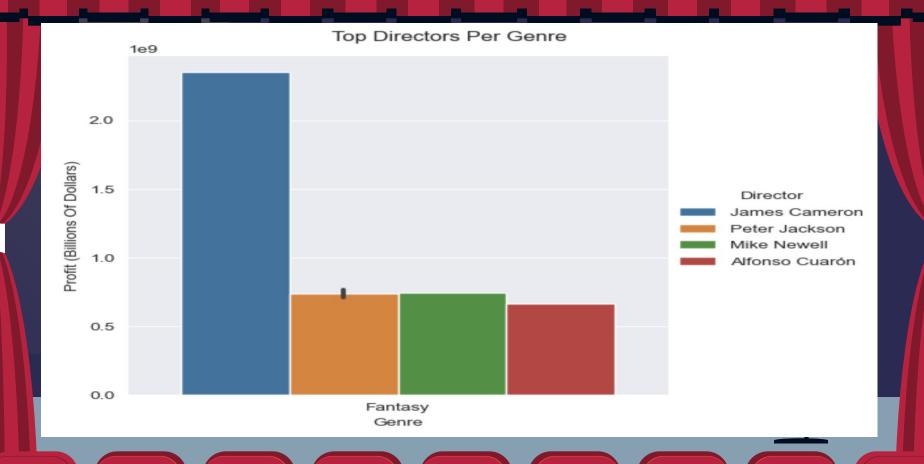
Movie Directors

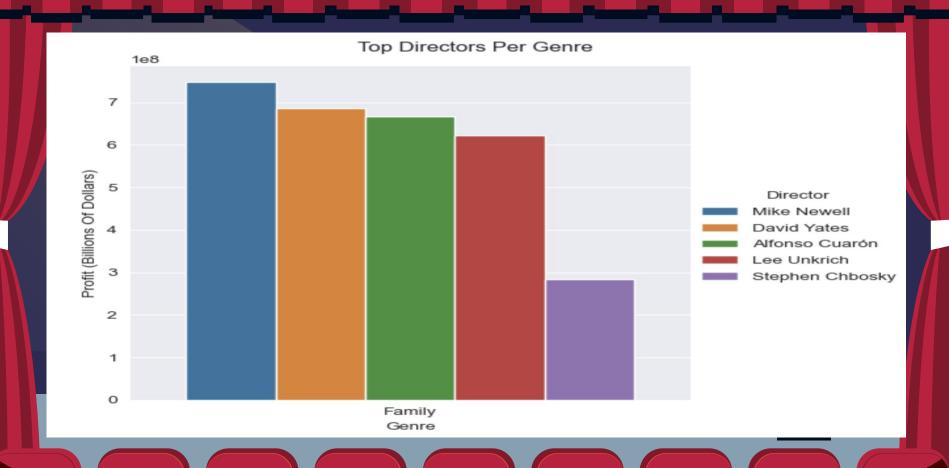
Who are the top five directors to hire for action, fantasy, adventure, animation, and family movies?











Results

 The highest profiting movie genres are Adventure, Action, Animation, Fantasy and Family

3.) The best directors to hire are James Cameron, Brad Bird, and Mike Newell

2.) Genres that will stand out include Animation, Family and Fantasy

Conclusion



Movie Option #1

- * A fantasy movie directed by James Cameron.
- * Potential profit of \$2,351,345,279



Movie Option #2

- * A animation movie directed by Brad Bird.
- * Potential profit of \$1,042,520,711



Movie Option #3

- * A family movie directed by Mike Newell.
- * Potential profit of \$747,099,794

Thank you!

Do you have any questions?
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