

There are millions of different directions you can take while deciding the production plan for your new movie. After analyzing multiple datasets, we can recommend the best direction to take your film. What makes a movie successful? Profitability High ratings Sufficient budget Proper accessibility rating Release timing We chose to focus our efforts on overall profit because production companies main concentration is to generate the biggest payback possible.

Data

Our datasets came from: Rotten Tomatoes IMDb files B.O.M. Film Productions Co. Each data set includes different columns of information that we merged, compared, and manipulated to pull out all data needed to solve our questions.

We wanted to focus on the most recent years, but ran into some problems in 2019 and 2020.

For obvious reasons, COVID halted film releases and production.

2019 Problems: Did not cater to audiences Unattractive sequels Franchise fatigue Too much competition + new streaming platforms Bad reviews at the beginning (solution: release this movie on a different weekend than any other action & adventure films)

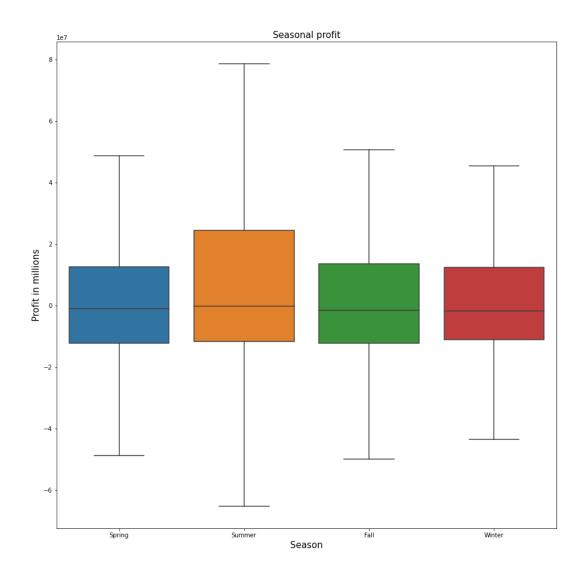
Methods

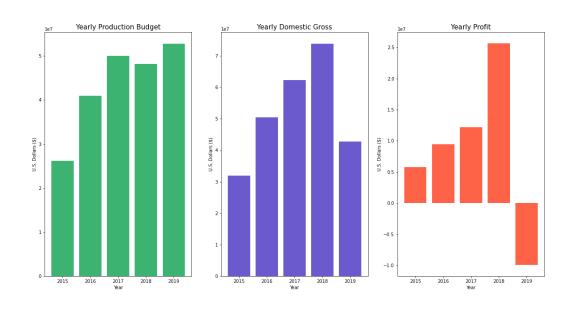
Yearly Comparison of Production & Budget Get a base for how much you will have to spend Create Profit Data Seasonal Profit Season would be the most profitable to release Monthly Profit Best month to release the movie Average Ratings and Gross Profit per Genre Genre that produces profit and good ratings Linear Regression of Ratings and Gross Profit per Genre Choose genre with high ratings and gross Average Gross per Month by Genre Month to release movie with genre Average Audience per Movie by Content Rating Choosing rating of the movie Average Spent on Production by Genre Amount to spend on production

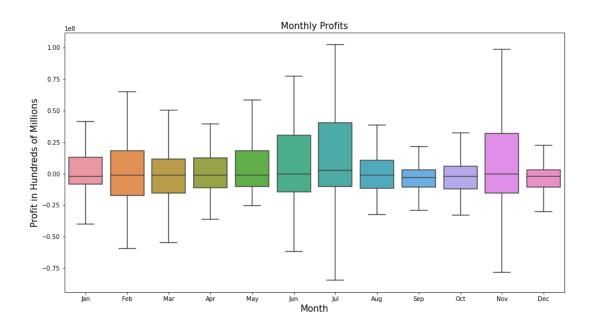
Results

Genre: Action/Adventure Release Date: July on a weekend where no other action/adventure films are being released Rating: PG-13 Production Budget: \$31 Million+

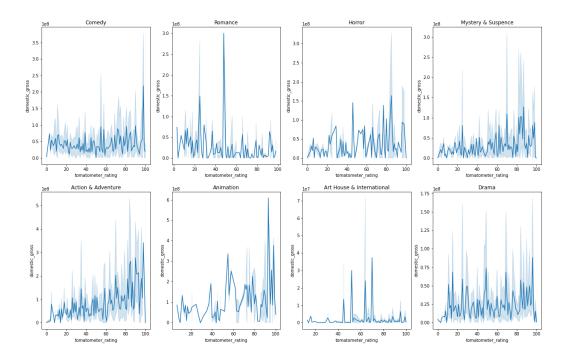
Visual 1

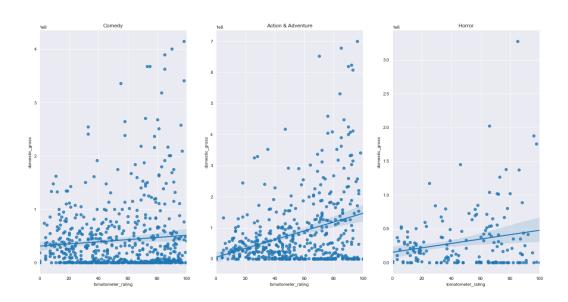






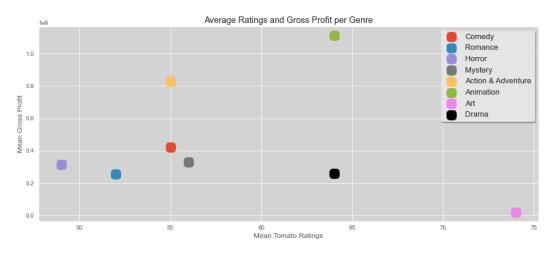
![graph5](./images/Audience vs content rating.png)













Conclusions

The genre we found to be the most profitable is Action & Adventure. Action & Adventure movies thrive during the month of July and September.

We recommend to release the movie in the summer because it is the most profitable season for movies. July and November proved to be the most profitable months to release a movie. So with this knowledge, July would be the month that would produce the highest domestic gross. You would want to spend a minimum of \$31 million on production budget to heighten your profit and lessen your risk of failure. This is the average amount spent on Action & Adventure production budgets. With a production budget of this, we predict there to be a domestic gross of \$41 million, which gives a profit of around \$10 million.

For More Information

For any additional questions, please contact name & email, name & email

Repository Structure

Describe the structure of your repository and its contents, for example:

- README.md reviewers of this project ── dsc-phase1-project-template.ipynb <- Narrative documentation of</p> analysis in Jupyter notebook DS_Project_Presentation.pdf presentation — data generated from code └─ images generated from code

- <- The top-level README for
- <- PDF version of project
- <- Both sourced externally and
- <- Both sourced externally and

Releases

No releases published Create a new release

Packages

No packages published Publish your first package

Contributors 6













Languages

Jupyter Notebook 99.4%Python 0.6%