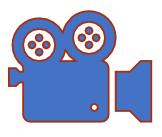
MICROSOFT MOVIE STUDIOS

Exploration of box offices successes and failures

Johnny Dryman



OVERVIEW

This analysis is designed to guide Microsoft through the early stages of film development and production.

We aim address the following questions:

What is the relationship between production budget and box office revenue?

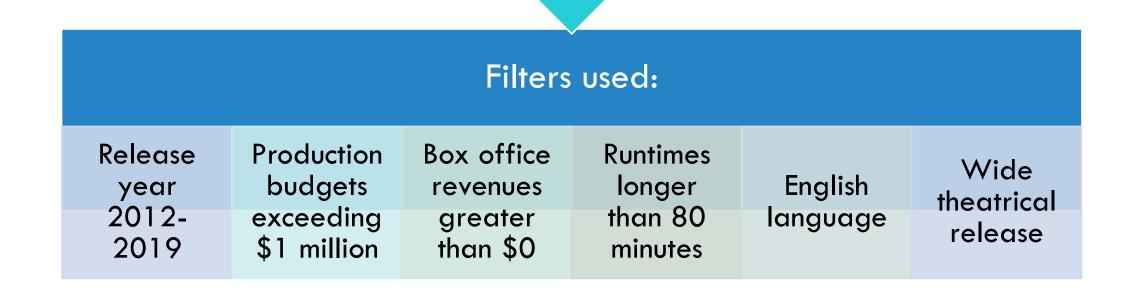
Which genres are the safest bets for the first few films?

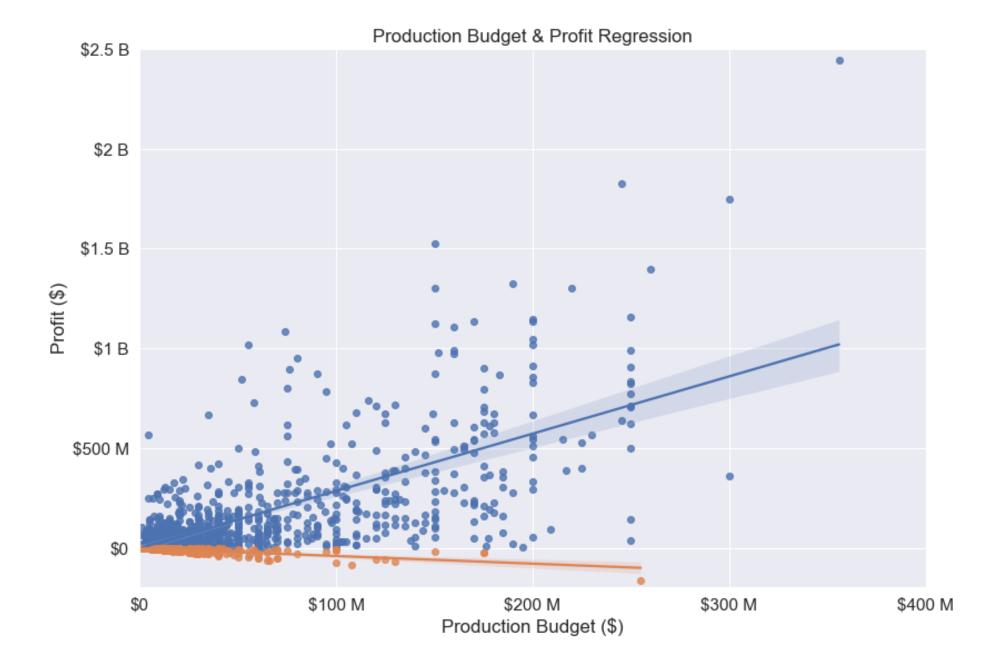
What MPAA rating makes the most sense for return on investment?



METHODOLOGY

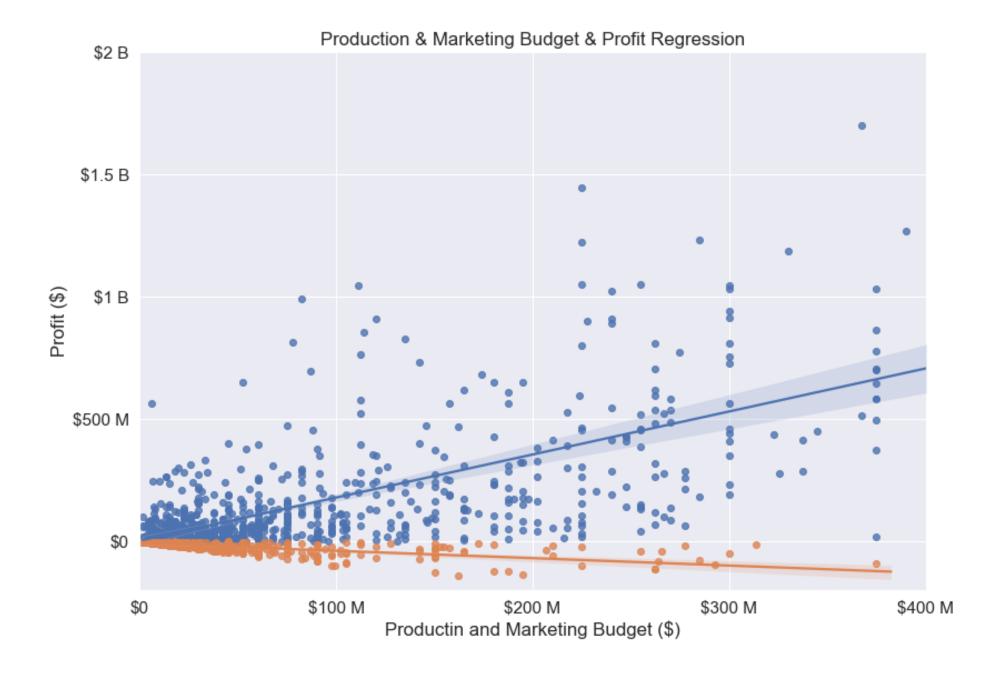
All data was sourced from The Movie Database (TMDB) using their provided API.





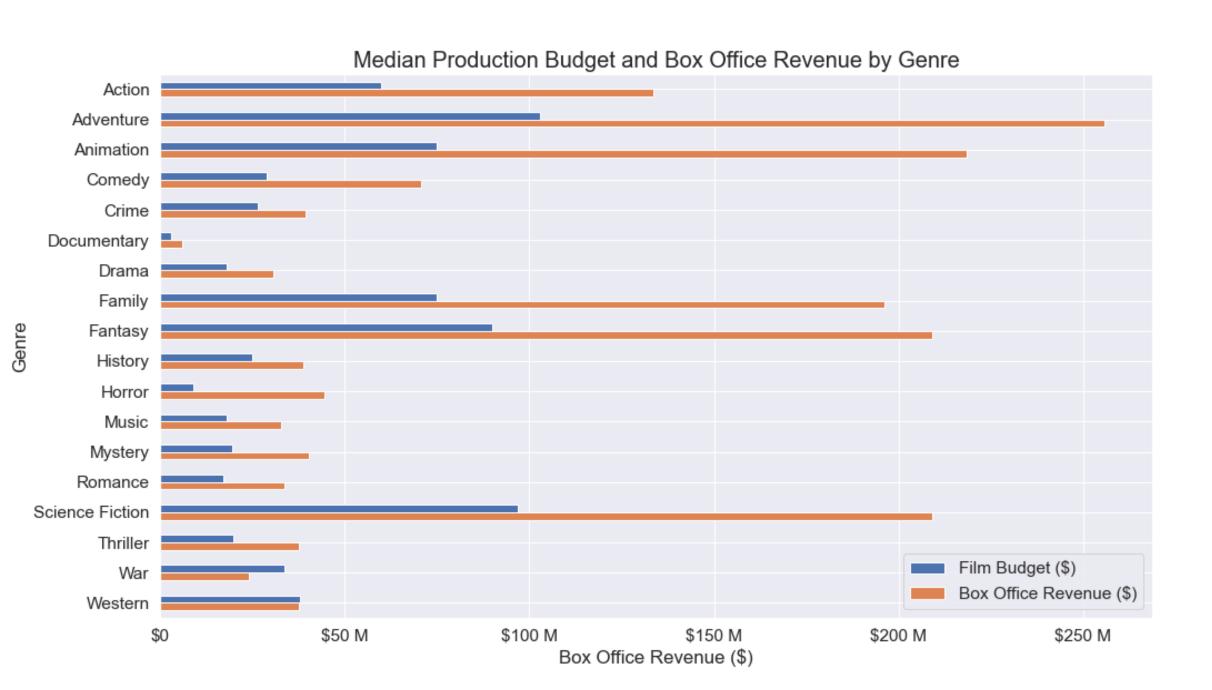
Success

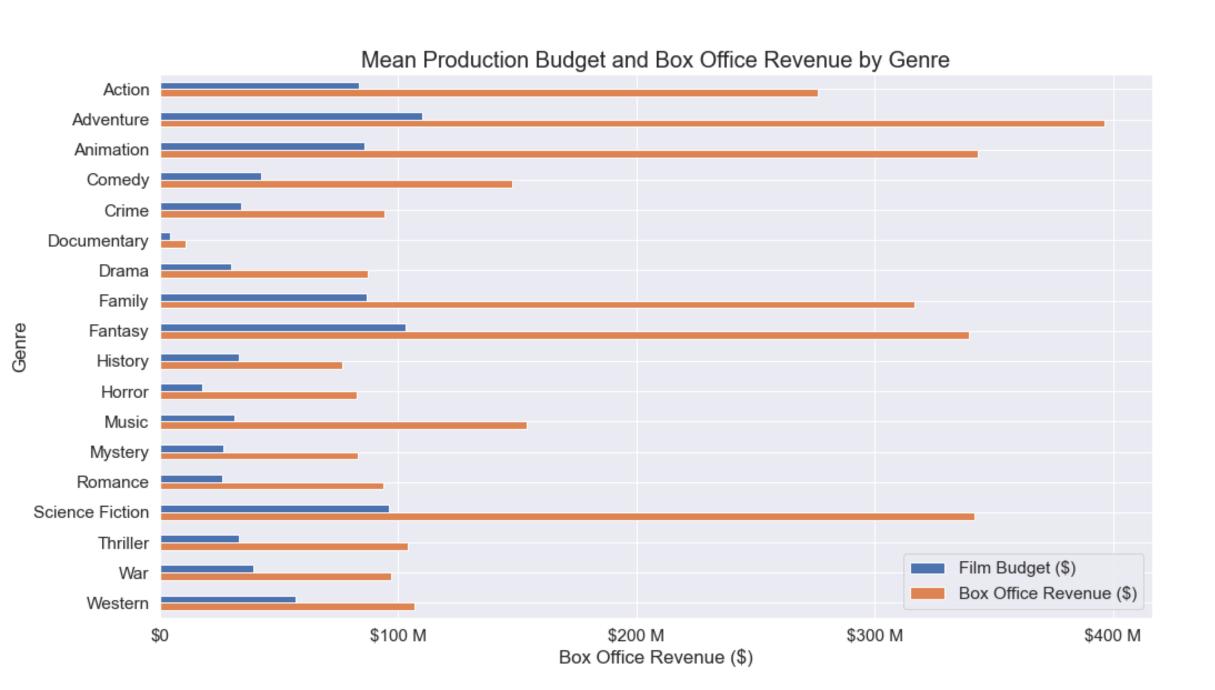
Flop

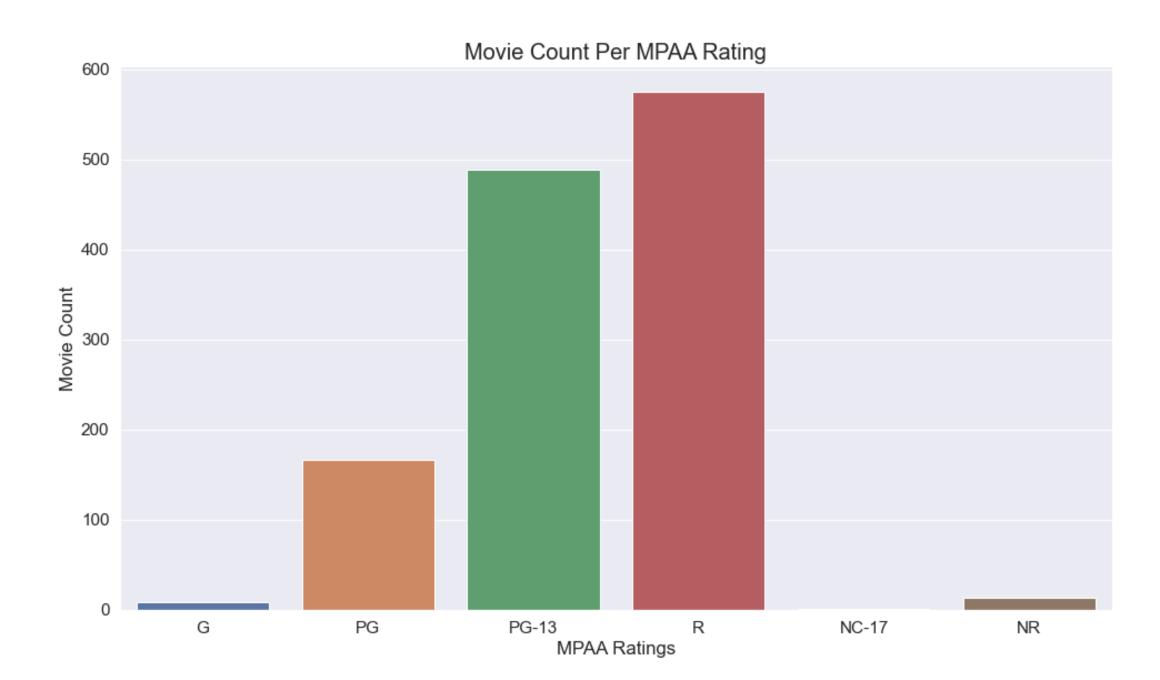


Success

Flop

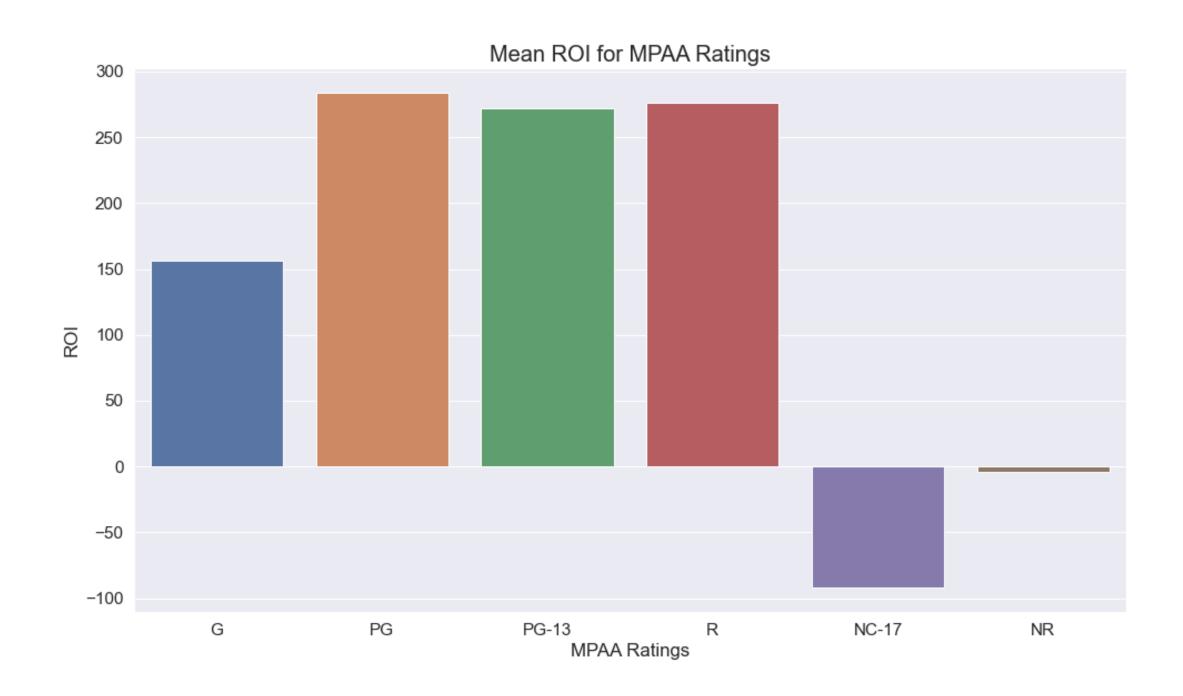












CONCLUSIONS

Budget and revenue are correlated, but avoid wasteful spending

Data represents studios with decades of experience

Microsoft is new to the business, and should allocate budgets with discretion

Focus on Adventure, Animation, Family, Fantasy, and Science Fiction genres.

Elements of action and comedy could be a bonus

Horror, Music, Mystery, Romance, and Thriller are profitable, but only with lower budgets

Appeal to all ages to maximize profit potential

PG and PG-13 ratings earn the highest ROI's

R rated movies should be approached with more caution, NC-17 movies should be avoided entirely

FURTHER ANALYSIS

What are the commonalities of box office flops?

Further explore successes and flops by isolating instances in separate dataframes

Who are the winners and losers in the most profitable genres?

Investigate elements of strong and weak performers

Expand data to include multiple sources (e.g. Rotten Tomatoes)

Combine TMDB data with data from Box Office Mojo, The Numbers, Rotten Tomatoes, and Metacritic

Crystalize current dataset by ironing out financial discrepancies

Identify trends in critic and audience popularity