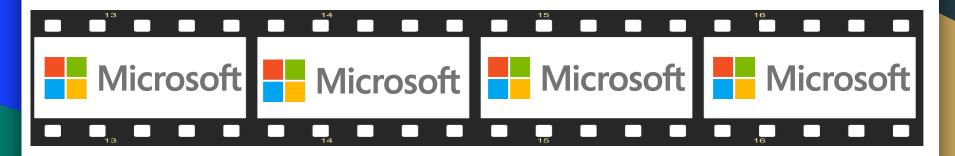
Microsoft Enters the Movie Business



Flatiron School Data Science Project 1

Zaid Shoorbajee

Overview

Microsoft is launching a movie studio and the company wants to know what kinds of movies are most successful.

This analysis examines data about movies from recent years to determine which genres perform best among viewers.



Outline

- Business Problem
- Data & Methods
- Results
- Conclusions

Business Problem

How do you measure the success of a movie?

• Box office ROI vs. Number of viewers

What kinds of movies are most successful?

- Which genres perform best?
- How much should Microsoft invest in each genre?

Data

- Insights are derived from IMDb, one of the most popular movie databases online.
- Analyzed data on movies from 2010 to 2019.
- Used information about each movie's:
 - Genres
 - Average user rating
 - Number of votes



Methods

Measure of success:

Number of votes a movie received on IMDb

Why?

A higher number of votes indicates more people have seen the movie.

Plus: ROI at the box office is arguably an outdated measure in the age of streaming.

Many popular, big-budget movies are released directly to streaming services.



Source: Variety

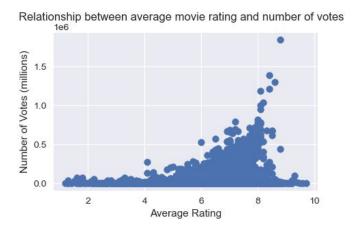
Methods, cont.

What about making good movies?

On IMDb, users vote to rate movies from 1 to 10.

My analysis shows that a **higher vote count is also** associated with a higher rating.

In other words when a movie has a high vote count, it's also more likely to have a good rating.



Results

The results are based on ranking movies from highest to lowest vote count. I then isolated the top 10% of movies.

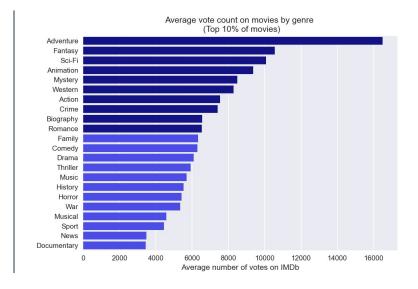
Most successful genres

Combinations of these 10 genres perform best:

- Adventure
- Western
- Fantasy
- Action

Sci-Fi

- Crime
- Animation
- Biography
- Mystery
- Romance



Results, cont.

Top 10 genres:

- Adventure
- Fantasy
- Sci-Fi
- Animation
- Mystery

- Western
- Action
- Crime
- Biography
- Romance

Many of the top-ranked movies have a **combination** of these genres.

Examples



Inception
Action, Adventure, Sci-Fi



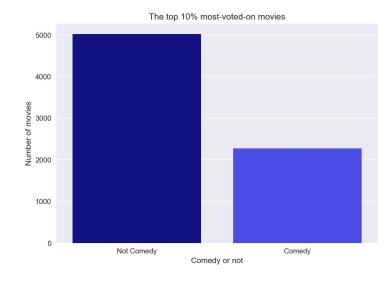
The Grand Budapest Hotel Adventure, Comedy, Crime

Results, cont.

What about comedies?

Notably, comedies were not ranked among the top 10 genres.

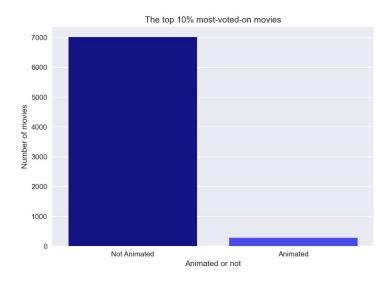
Of the top ranked movies, 31.22% are also listed as comedies.



Results, cont.

Animated movies

Of the top ranked movies, 3.93% are animated.



Recommendations



- 1. Focus on movies with some combination of the following 10 genres:
 - Adventure
- Western

Fantasy

Action

Sci-Fi

- Crime
- Animation
- Biography
- Mystery

- Romance
- 2. About one third of movies should be comedies.
- 3. About 4% of movies should be animated.

Thank you!

Email: zshoorbajee@gmail.com

GitHub: @zshoorbajee

LinkedIn: linkedin.com/in/zshoorbajee/

Image sources:

- Pixabay
- Wikimedia Commons