Echelon Studios Movie Analysis

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Summary

Exploratory analysis of movie datasets from IMDB and The Numbers, attributing factors to a movie's success and failure.

These factors include:

- **Release Year** (e.g. 2010 2018)
- **Genre** (e.g. Comedy, Drama, Comedy/Romance, etc.)
- Director
- **Money** (gross domestic/worldwide revenue, return on investment, budgeting, etc.)

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Business Problem

Echelon Studios sees its competitors producing successful movies and wants to do the same. But, they need to know the factors that attribute to a movie's success.

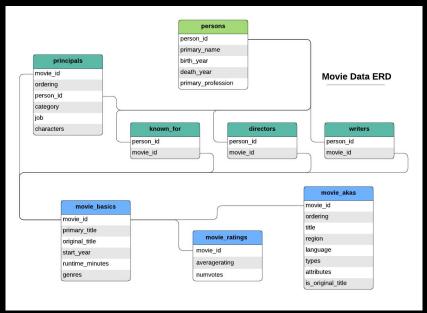


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The Data

Primary Datasets Used:

There were multiple datasets provided. To avoid repeated data and to maximize efficiency, I only used the information contained in the IMDB database, along with the data from The Numbers.



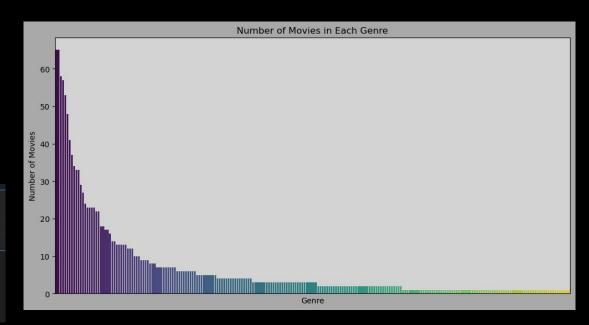
Genres

With about 230 different genres to choose from, I based my search on the most popular in order to filter the data effectively.

- Adventure|Animation|Comedy
- Drama

```
# Extract the top 3 most frequent movie genres from genre_counts
top_genres = genre_counts.head(3)
top_genres

genres
Adventure|Animation|Comedy 65
Drama 65
Comedy|Drama|Romance 58
Name: count, dtype: int64
```



Directors + Money

The next step I took was looking at the most popular directors within those three genres. From there, I compared their figures (e.g., production budget, gross revenue) to those of other movies within the genre.

For Adventure/Animation/Comedy films, Mike Mitchell is a popular director, having directed films like *Shrek Forever After* and *Trolls*.

Figures:

Shrek Forever After (2010)

• **Production Budget:** \$165,000,000

• **Gross Domestic:** \$238,746,787 (**45%** ROI)

• **Worldwide Domestic:** \$756,244,673 (**358%** ROI)

Trolls (2016)

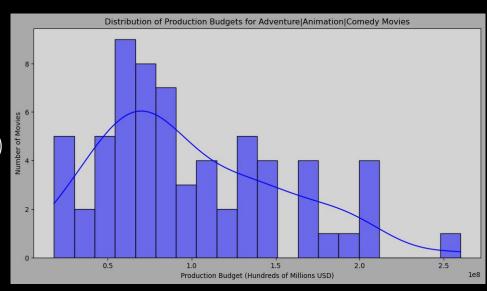
• **Production Budget:** \$125,000,000

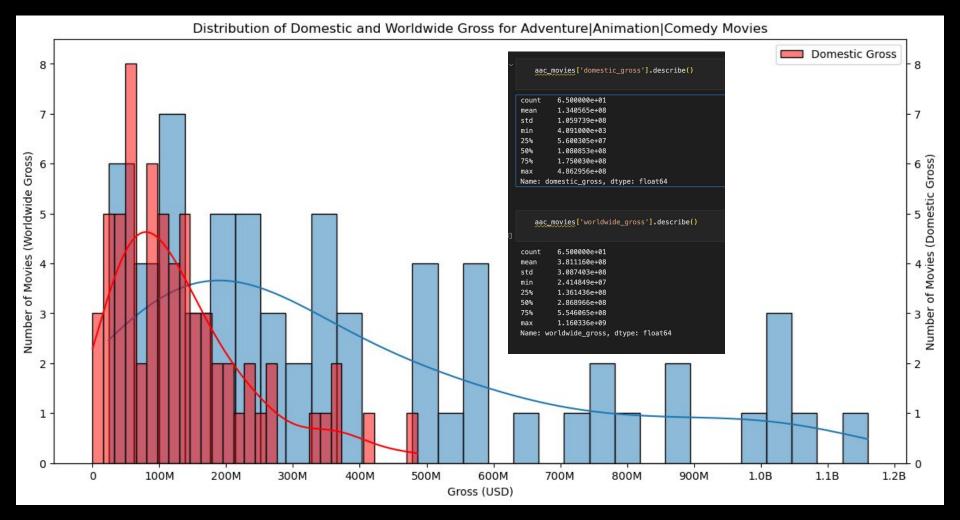
• **Gross Domestic:** \$153,707,064 (**23%** ROI)

• Worldwide Domestic: \$344,150,134 (175% ROI)









Directors + Money

One of the more popular directors for Drama films is Alex Kendrick, directing movies like *War Room* and *Courageous*.

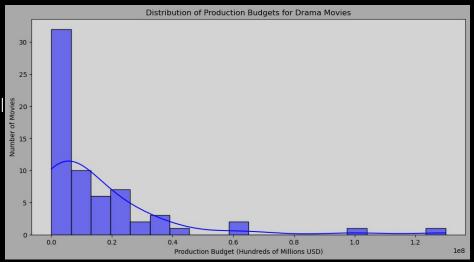
Figures:

War Room (2015)

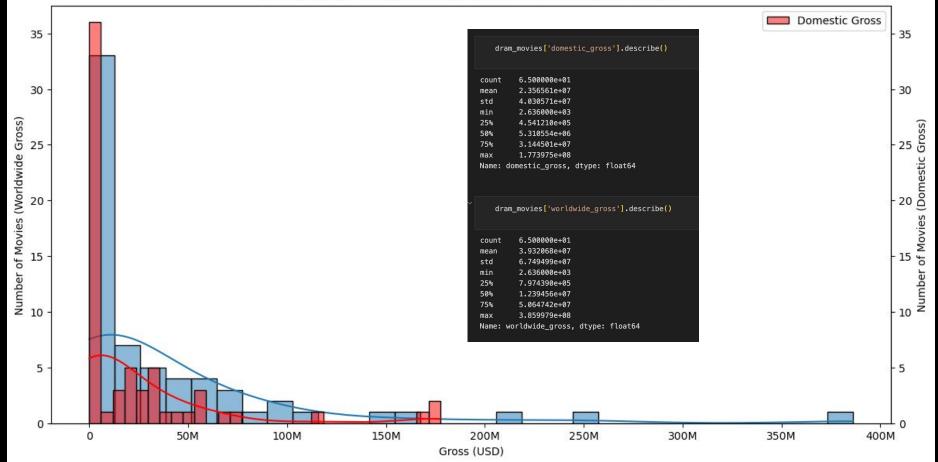
- **Production Budget:** \$3,000,000
- **Gross Domestic:** \$67,790,117 (**2160%** ROI)
- Worldwide Domestic: \$73,975,239 (2366% ROI)

Courageous (2011)

- Production Budget: \$2,000,000
- **Gross Domestic:** \$34,522,221 (**1626%** ROI)
- **Gross Worldwide:** \$35,185,884 (**1659%** ROI)







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Recommendations

- 1. For the most success, produce an Adventure/Animation/Comedy or Drama film.
- 2. For a highly popular and grossing film, hire Mike Mitchell to direct an Adventure/Animation/Comedy film.
- 3. For the most return on investment, hire Alex Kendrick to direct a Drama film.

Conclusion + Final Notes

- This data does have bias
 - Movies produced in 2010 have had more time to accumulate money than movies produced in 2015
- These figures are only as recent as 2018

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Thank you!