

- 1. What genre yields the highest return on investment (ROI) in the context of box office performance?
- 2. What is the best day and month for movie release to maximize box office revenue and audience reception?
- 3. Is there a statistically significant correlation between production budget and worldwide gross revenue for movies?

Data 2

The data sources for this analysis include IMDb's title and ratings data, Box Office Mojo's movie gross data, and The Numbers' movie budgets data.

Datasets Used:

- 1. imdb.title.basics: This dataset contains information about movie titles, including genres, release year and runtime. It will be used to understand the genres and general characteristics of the movies in the analysis
- 2. imdb.title.ratings: This dataset provides movie ratings for an assessment of audience reception. These ratings help in evaluating the success of movies
- 3. bom.movie_gross: This dataset includes information on the domestic and foreign box office gross revenue for movies
- 4. tn.movie_budgets: This dataset provides data on the production budgets and worldwide gross revenue of movies for the analysis of the relationship between budgets and revenue ***

Methods 2

This project uses descriptive statistics to understand box office trends such as correlation to identify predictive factors for a movie's success

Conclusions *∂*

Based on the insights from the analysis, the following recommendations are made:

1. To maximize return on investment (ROI), focus on producing movies in the Horror, Mystery, Thriller, and Action, Drama, Family genres.

Egenreroi.png

2. May, June, and July (summer time) are the ideal months for high ROI movie releases, while November and December are preferable for boosting popularity.

monthrating.png

<u>budgetrevenue.png</u>

3. The positive correlation between the production budget and worldwide gross for the top 100 movies suggests that higher budgets tend to result in higher revenues. Further analysis can however be made to ascertain the extent of this correlation



What Next? ?

In order enhance the quality of the recommendations herein, I suggest exploring additional data sources and conducting further analysis in various other areas including but not limited to:

- 1. Streaming and Home Entertainment Revenue: With the growing importance of streaming platforms such as Netflix, including data on revenue from digital and streaming services, can provide a more comprehensive picture of a film's overall financial performance.]
- 2. Marketing and Promotion: Examining data related to marketing and promotional strategies employed by successful movies can help Microsoft understand how to effectively market their films
- 3. Impact of Cast on Movie Performance. This analysis can help identify talent with a strong track record of contributing to successful films

For More Information 2

See the full analysis in the Jupyter Notebook or review this presentation

Repository Structure *∂*

— data
— images
README.md
$\qquad \qquad \qquad -\!$
└── DSC-phase1-project.ipynb
```# phase-1-dsc-project
# phase-1-dsc-project



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