Microsoft-Movie-Analysis

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Summary

Microsoft wants to create a new movie studio, to identify the types of films that are currently performing well at the box office.

> Findings

- Movies with higher ratings tend to have higher gross revenue, but the correlation is not very strong.
- > The most popular genres of movies are Drama, Comedy, and Action.
- ➤ This can be useful for businesses to understand the preferences of their target audience.

Outline

- Business Problem
- Data
- Methods
- Results
- Conclusions

Business Problem

Microsoft wants an understanding of which types of films are currently successful:

 Microsoft can make data-driven decisions about what types of films to produce in order to maximize their chances of success.

☐ Research Questions

- What are the most popular movie genres?
- ☐ Which movie genres have the highest average ratings?
- ☐ What is the relationship between movie budget and revenue?
- ☐ Which movie studios have produced the most successful films?

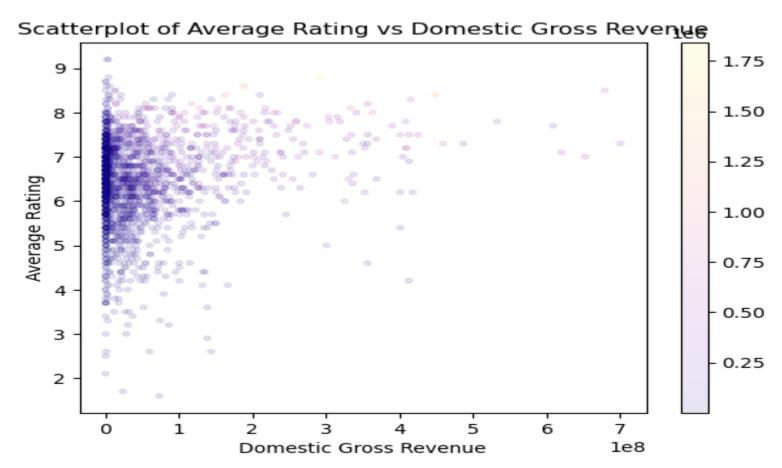
Data

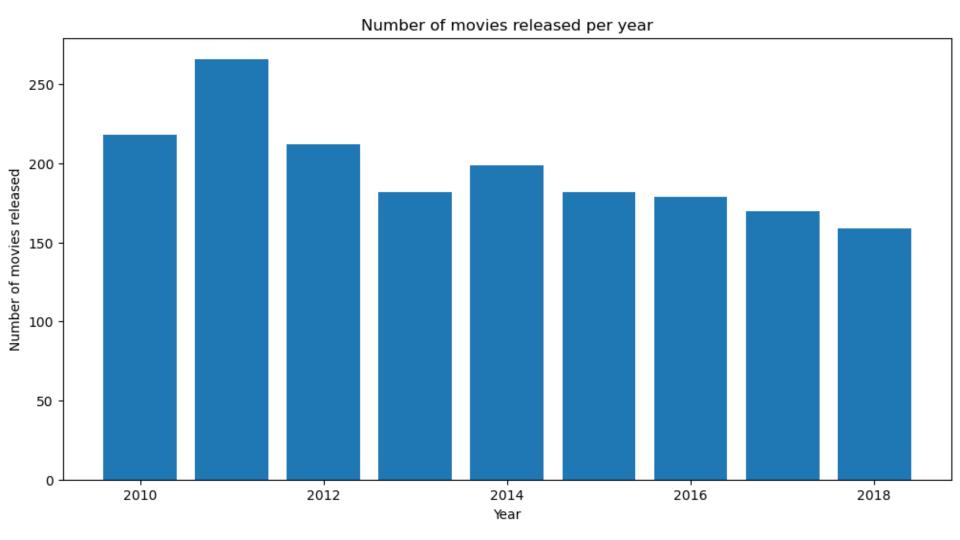
- ➤ For this project, we are using two datasets: "movie_basics" and "movie_ratings".
- "movie basics" dataset was obtained from the IMDb database:
 - Contains information about movies such as title, year of release, genre, and production studio.
 - movie_ratings" dataset was also obtained from the IMDb database and contains information about the ratings and reviews of movies.
- Our target variable is the movie's revenue or box office gross,
 - Obtained from external sources such as the "bom.movie_gross.csv" dataset.

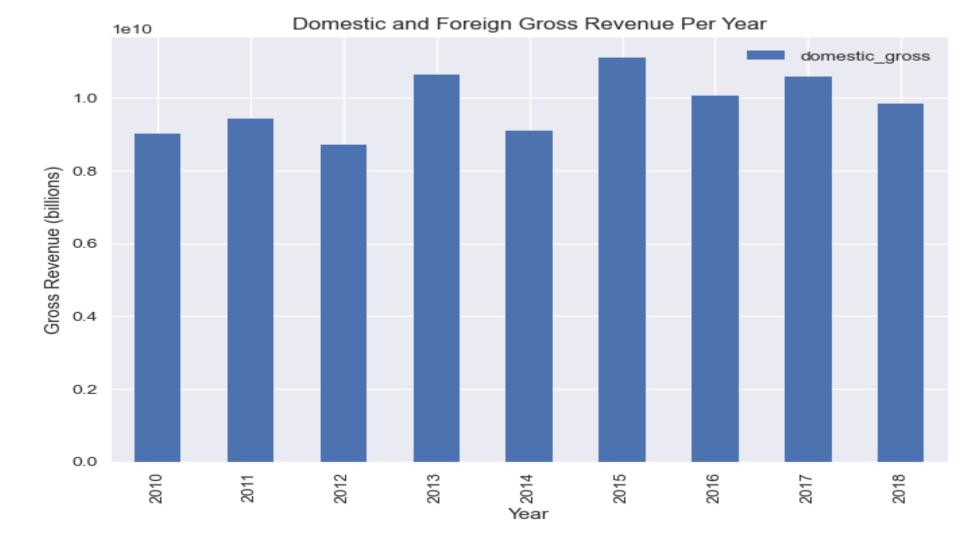
Methods

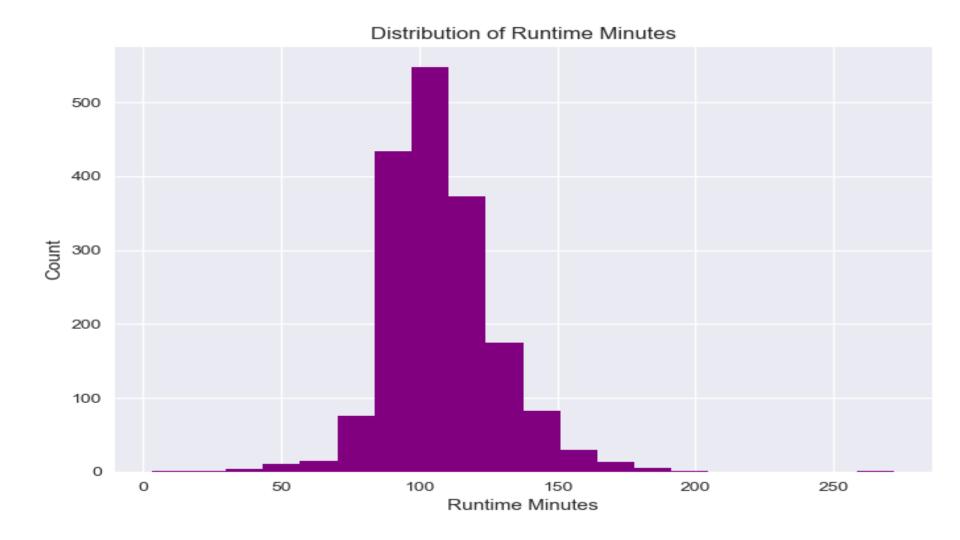
- ✓ Data was analyzed and modeled using pandas data manipulation and visualization tools in Python.
 - ✓ loading and cleaning the data, including dropping missing values and merging relevant tables.
 - ✓ Data was then visualized using a scatter plot, bar chart, stacked bar chart, histogram, and pie chart.
 - ✓ To gain insights into trends and relationships between variables

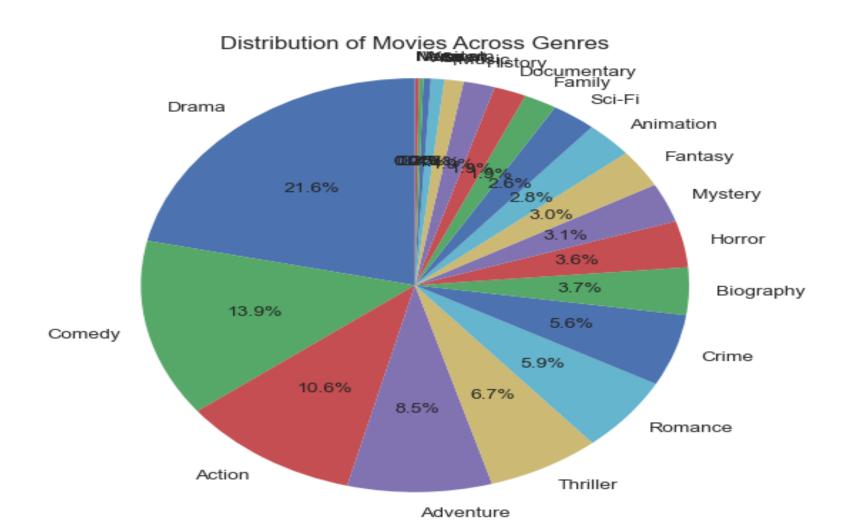
Results











Conclusions

- > The pie chart shows that the most popular genres of movies are Drama, Comedy, and Action.
- > The business can use these insights to make data-driven decisions, such as identifying the most profitable genres and focusing on increasing foreign revenue.
- We did not consider the impact of external factors such as competition and economic conditions on the movie industry.
- We could consider including more data sources to increase the scope of our analysis.
- > We could also use machine learning algorithms to predict the success of a movie based on its genre, runtime, and other factors.

Thank You!

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