MOVIE INDUSTRY ANALYSIS



OBJECTIVES

- Project Overview
- Business understanding
- > Data understanding
- Data Analysis & Visualizations
- Recommendation & Conclusion



PROJECT OVERVIEW



- This organization had decided to join in the fun by creating new movie studio
- This project explores the various kinds of films and their performance at the box office.
- Findings translated into actionable insights

BUSINESS UNDERSTANDING

- Objective: Establish a new movie studio, determine genres of films to produce based on current box office trends.
- Business Goals: Maximize box office revenues, establish brand recognition, and cater to diverse audience preferences.
- Key Questions:
- a) Which genres are currently performing well at the box office?
- b) How do factors like budget and directors impact box office success?
- c) Which studios will we be competing with?

DATA UNDERSTANDING



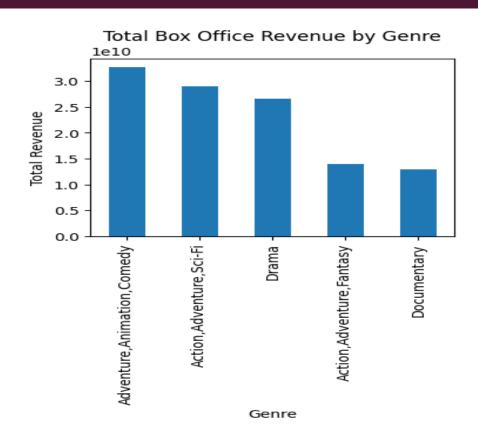
Data Sources:

- IMDB SQLite Database (im.db): Contains movie metadata including titles, genres, ratings. Box Office Mojo (bom.movie_gross.csv.gz): Provides box office gross revenue data.
- Explore data to understand distributions, correlations, and completeness.
- Identify relevant variables such as genre, budget, ratings, release dates.

DATA ANALYSIS PROCESS

- Relevant libraries imported: for data analysis including Pandas, Matplotlib, and Seaborn, Numpy and SciPy for easy data manipulation.
- Selected the relevant dataset and data frames: This project will use IMDB database as it has large datasets for analysis(more than 150,000 movies) using three primary columns selected including genres, primary_name(directors) and primary title. The project will also use the bom.movie_gross.csv data sets to calculate the box office revenue per genre.
- Data Cleaning: There were a few columns dropped entirely since the majority of the data was missing, and for the purpose of this project, they were basically useless.
- Merging Data Frames: Using the Pandas merge method, several data frames were merged based on either similar column values
- Visualizing the data: Used to answer the three questions under business understanding.

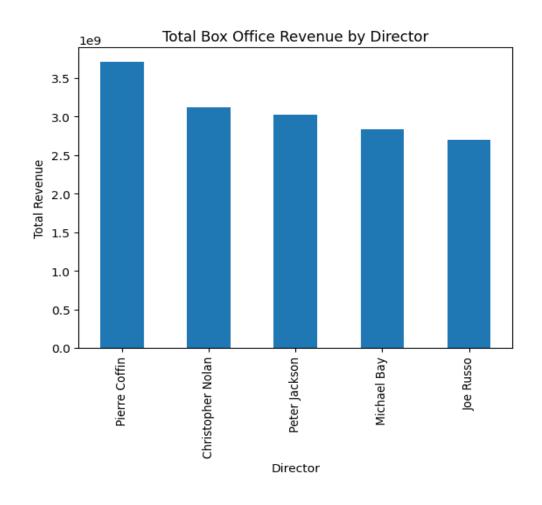
DATA ANALYSIS & VISUALIZATIONS: BEST PERFORMING GENRE



Top 5 Genres performing well currently based on revenue generated by Genre

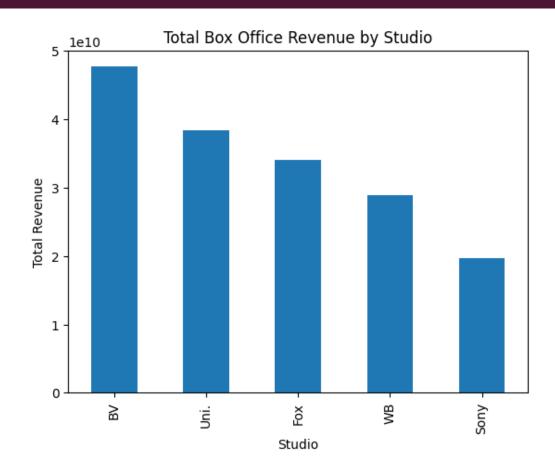
- I. Adventure
- 2. Action
- 3. Animation
- 4. Comedy
- 5. Drama

DATA ANALYSIS & VISUALIZATIONS: BEST PERFORMING DIRECTORS



- Top 5 Directors performing well currently based on revenue generated in their films
- I. Pierre Coffin
- 2. Christopher Nolan
- 3. Peter Jackson
- 4. Michael Bay
- 5. Joe Russo

DATA ANALYSIS & VISUALIZATIONS: BEST PERFORMING STUDIO





CONCLUSION & RECOMMENDATIONS

- □ Focus on producing Action and Adventure movies: These genres consistently generate the highest box office revenues.
- □ Collaborate with successful directors: Partnering with experienced top 5 directors like Pierre Coffin, Christopher Nolan, Peter Jackson, Michael Bay, and Joe Russo can significantly increase the chances of success.
- □ Consider benchmarking top 5 studios: The following studios tend to perform exceptionally well including BV, Uni., Fox, WB, and Sony, to learn ways they strategically can maximize revenue potential.

REFERENCES

- https://www.boxofficemojo.com), IMDB (https://www.boxofficemojo.com),
- The Movie Database (https://www.themoviedb.org/?language=en-US).