



BY: GROUP 1 2nd MAY 2025



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BACKGROUND

• This project undertakes an analysis of film-performance metrics aggregated from Box Office Mojo, Rotten Tomatoes, The Movie Database, and The Numbers

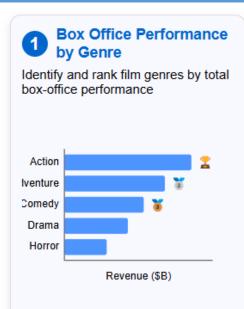
 The dataset comprises ratings for a broad spectrum of genres viewed worldwide, capturing a representative selection of productions released over years alongside their domestic and international revenue and critical reception

PROBLEM STATEMENT

From major studios, the company has resolved to enter the market by launching a new movie studio.

It currently lacks in-house expertise in film production; therefore, our group is identifying which genres yield the strongest box-office returns.

OBJECTIVES



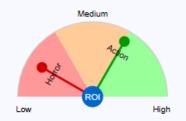
2 Domestic vs International Market

Analyze variation in gross revenue across markets



Return on Investment (ROI)

Calculate which genres deliver highest capital efficiency



4 Release Timing Impact

Identify optimal release windows for different genres



4 Audience vs. Critical Reception

Compare audience reception and critical ratings

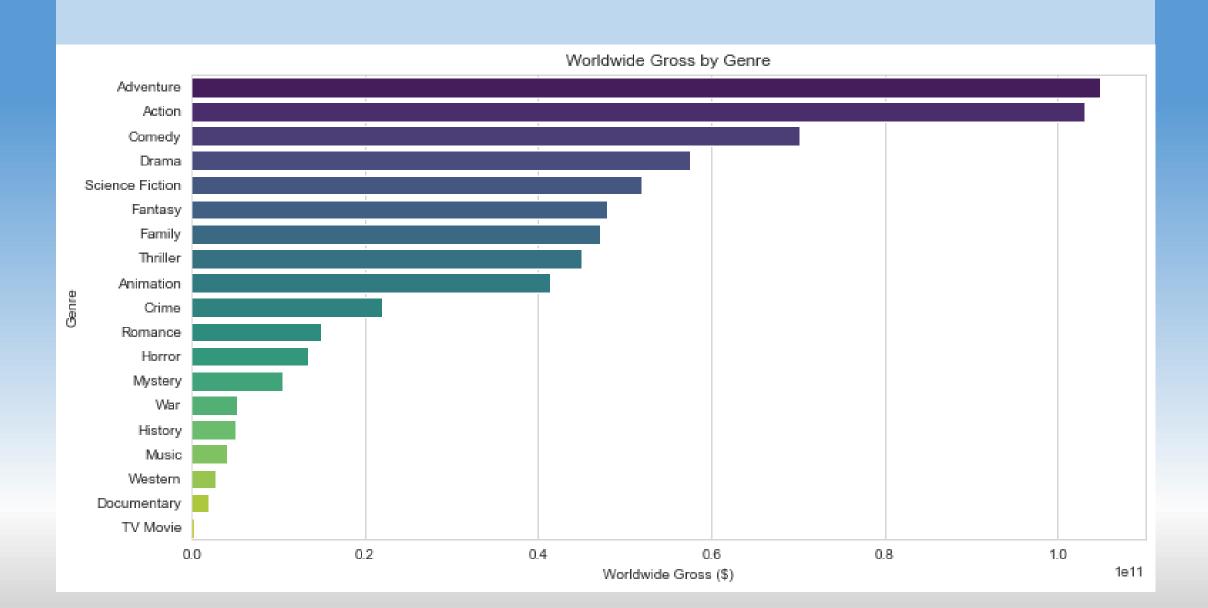


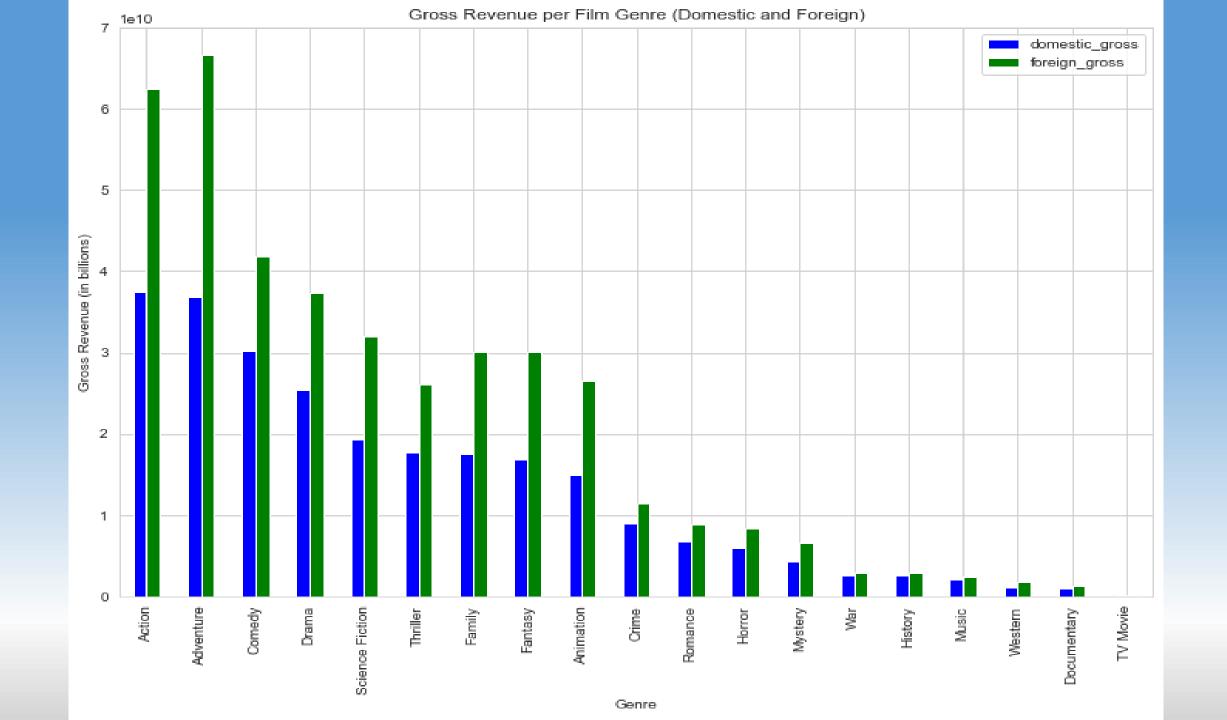
6 Production Trends Over Time

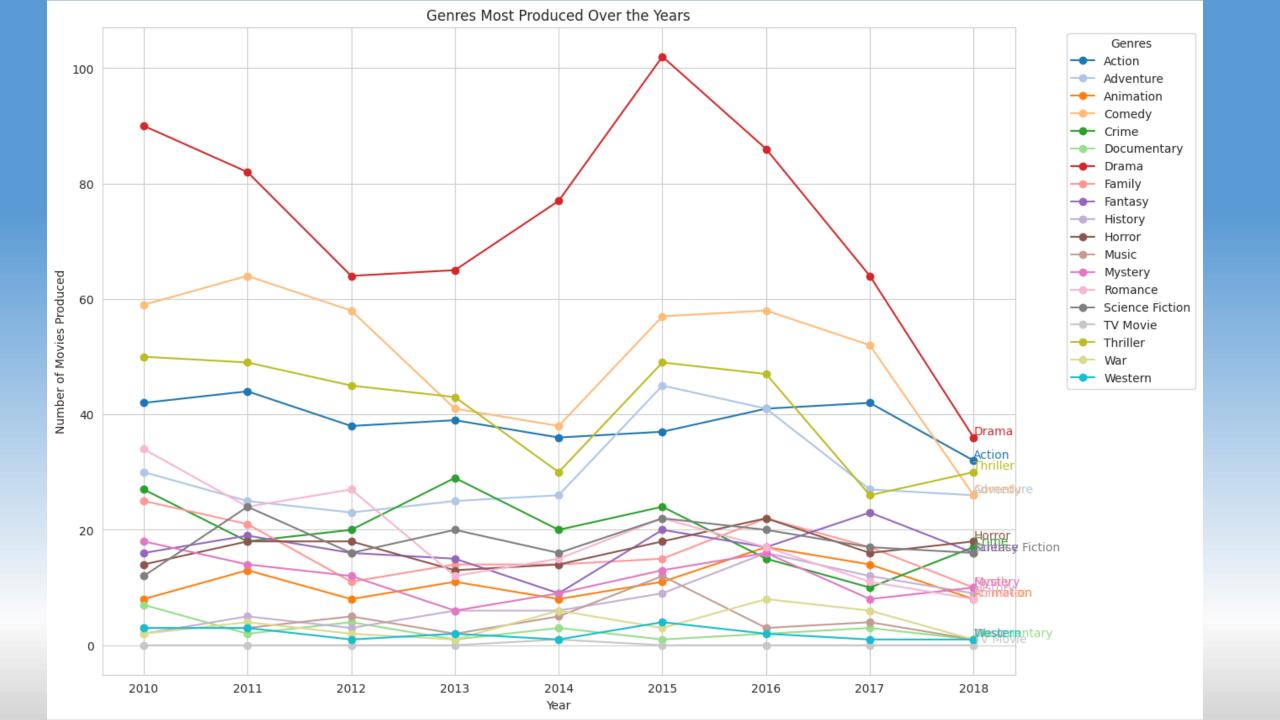
Track changes in film production volume by genre



DATA ANALYSIS







Analysis	Key Findings
Top Grossing Genres	Action, Adventure, Sci-Fi lead global earnings. Foreign > Domestic in blockbusters.
ROI by Genre	Horror, Thriller, Comedy have highest ROI. High ROI not tied to gross alone.
ANOVA: Genre vs Worldwide Gross	Significant gross differences by genre. Supports genre-specific forecasting.
Paired t-test: Foreign vs Domestic Revenue	Foreign revenue > Domestic (statistically significant). Highlights need for global appeal.
ANOVA: ROI Differences by Genre	Clear ROI disparities by genre. Low-budget genres often yield higher ROI.
ANOVA: Release Month vs Gross	Gross varies by month. Summer (May–July) and Holidays (Nov–Dec) perform best.
Genre Ratings Analysis (ANOVA)	Drama, Documentary, History have highest ratings. Critical vs commercial success gap.
Chi-Square & Time Series: Genre Trends	Documentary & Horror rising. Western & War declining. Comedy & Action stable.

Low explanatory power ($R^2 \approx 0.17$).

More features needed for accurate forecasting.

Linear Regression (Genre + Year →

Gross)

RECOMMENDATIONS

- 1. Invest in Genres with High ROI: Horror, Thriller, and Comedy yield strong returns.
- 2. Strategically Time Releases: IIII Target Summer and Winter holidays for big launches.
- **3. Expand Predictive Features:** If Use cast, marketing budget, and critic scores.
- 5. Balance Gross vs ROI: **(a)** Consider budget efficiency, not just gross earnings.

CONCLUSION

In order to gain deeper understanding and succeed in the film industry performance, it is also important to take into consideration some of these following aspects; **impact of actors and directors**, the **marketing & promotion strategies** and **streaming platforms** used.

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HAPPY
   TO
     ANSWER
          YOUR
              QUESTIONS!!!!
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THANK YOU