



TITLE

# Analysing Movie Trends:

What Films Perform Best at the Box Office?

DATE

GROUP

PHASE

04/04/2025

#6

#2



# What is the Problem?

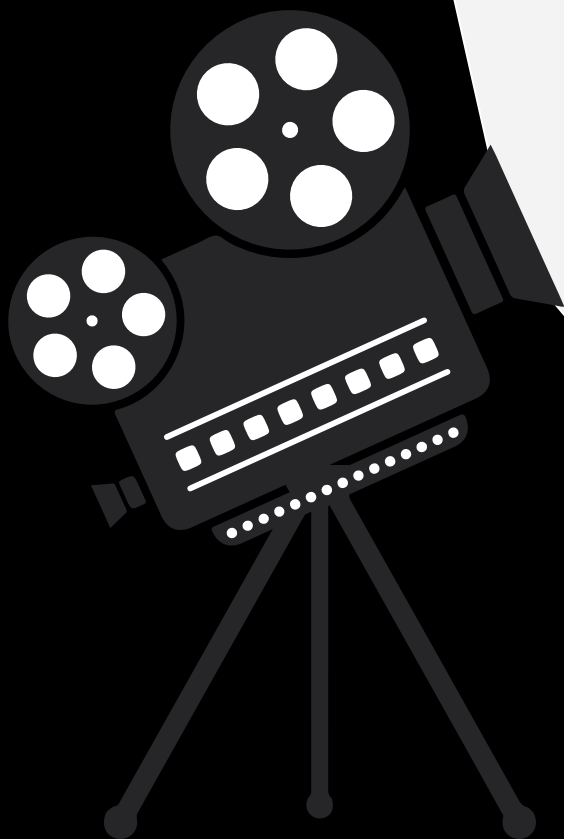


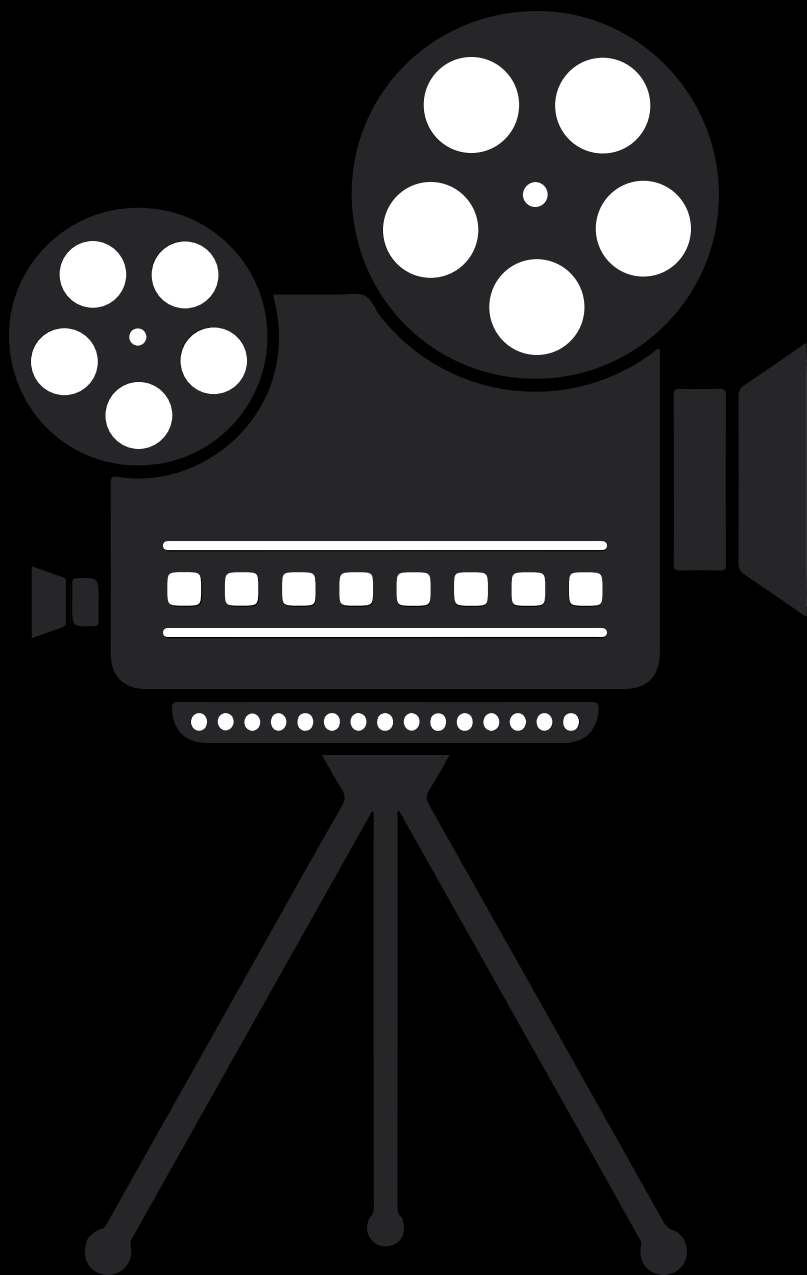
Movie studios invest millions, but revenue is unpredictable!







## Challenges:

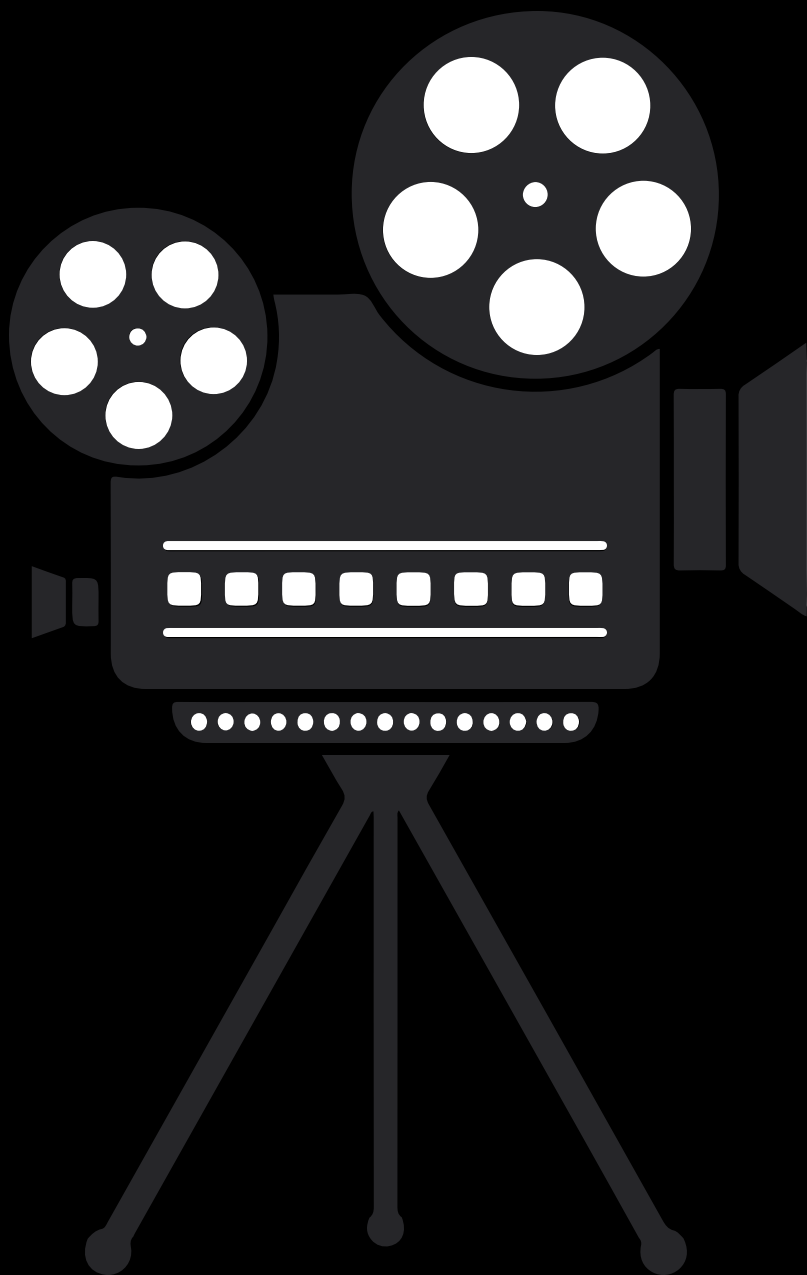
- ◆ Uncertain Box Office Performance
- ◆ Lack of Data-Driven Decision Making
- ◆ Misallocation of Budgets





# What questions are we answering?

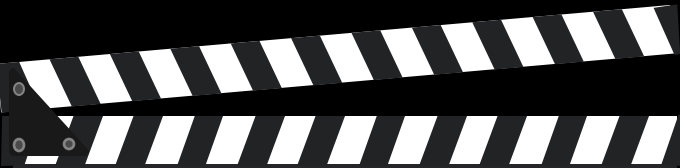
-  Which genre generates the **highest revenue**?
-  How do production budgets impact **profitability**?
-  What **trends** exist in audience preferences over time?
-  How does **critical reception** correlate with box office performance?



# Data Analysis

- We merged two datasets from **IMDB** and **The Numbers**
- Data Structure:
  - **Movie Budgets & Revenue** – Production budgets, domestic & worldwide gross earnings.
  - **Movie Metadata** – Genre, language, popularity, runtime and ratings
- Analysis was done using the **Python** language

# As per the Analysis



**90-150  
minutes**

- Runtime  
sweetspot

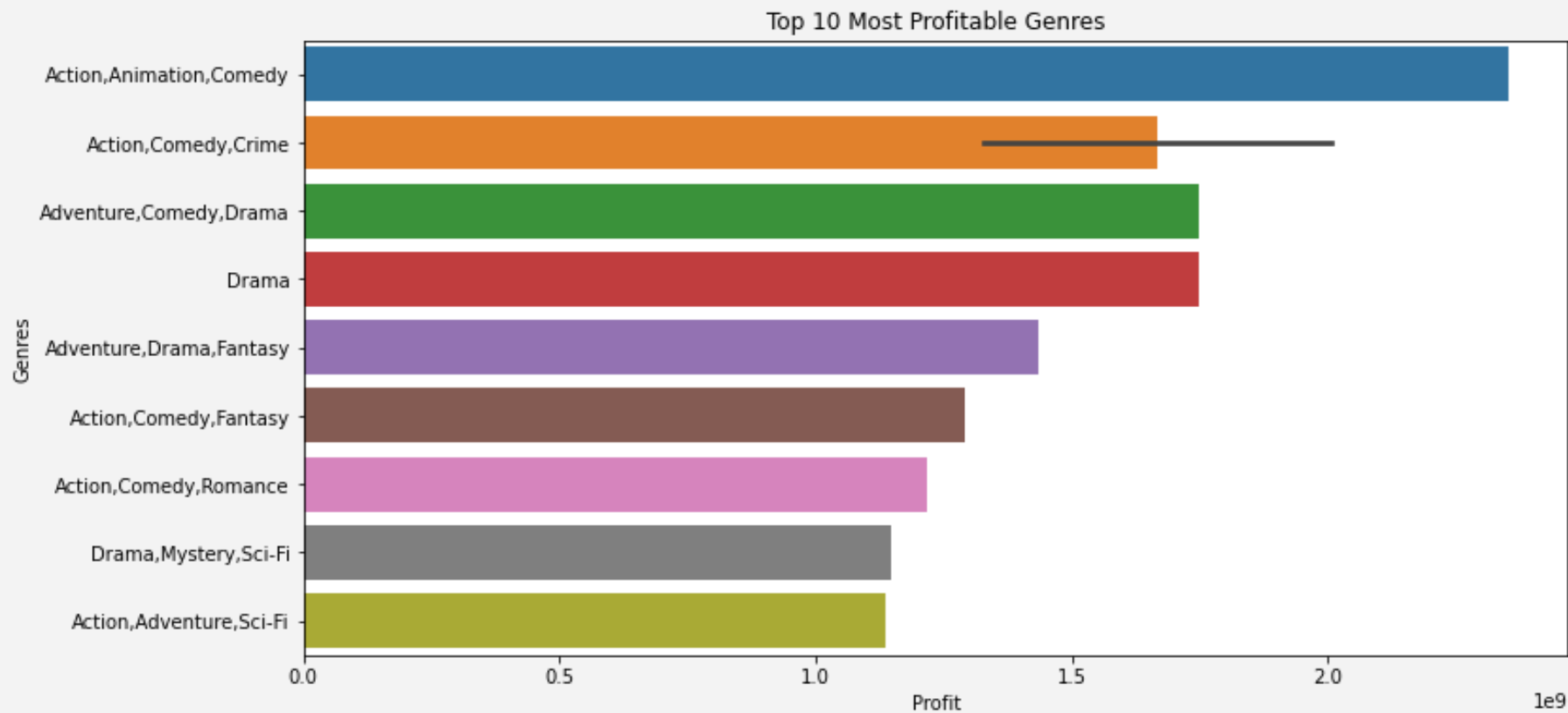
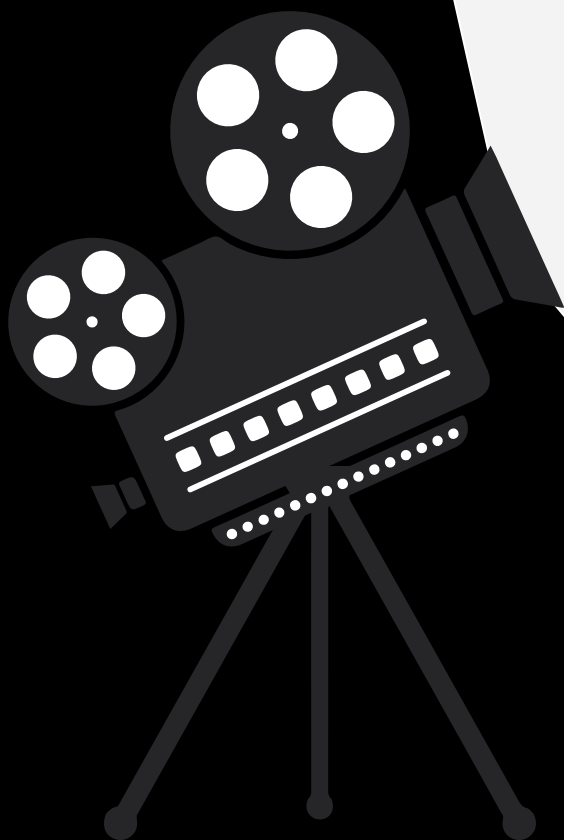


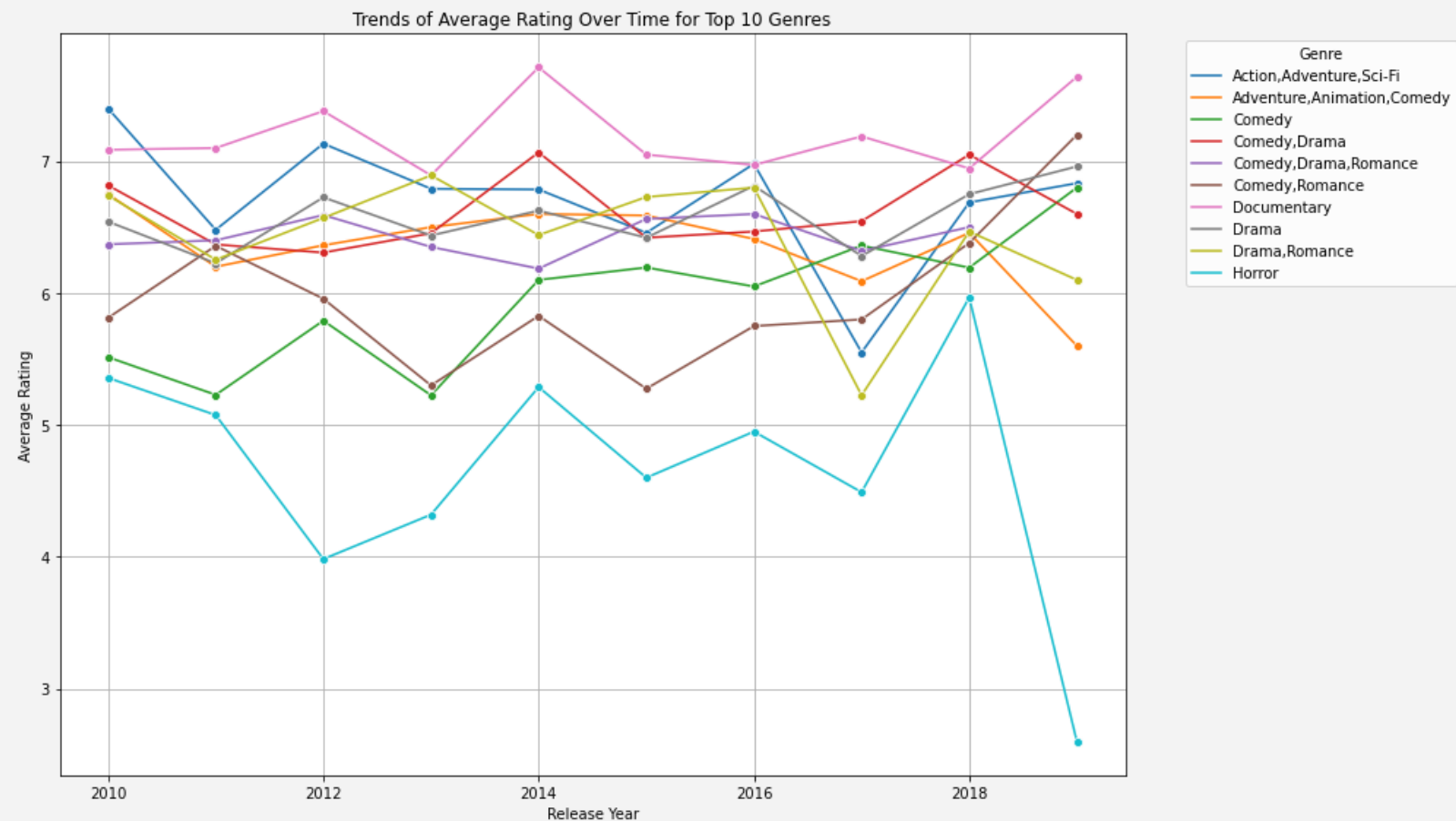
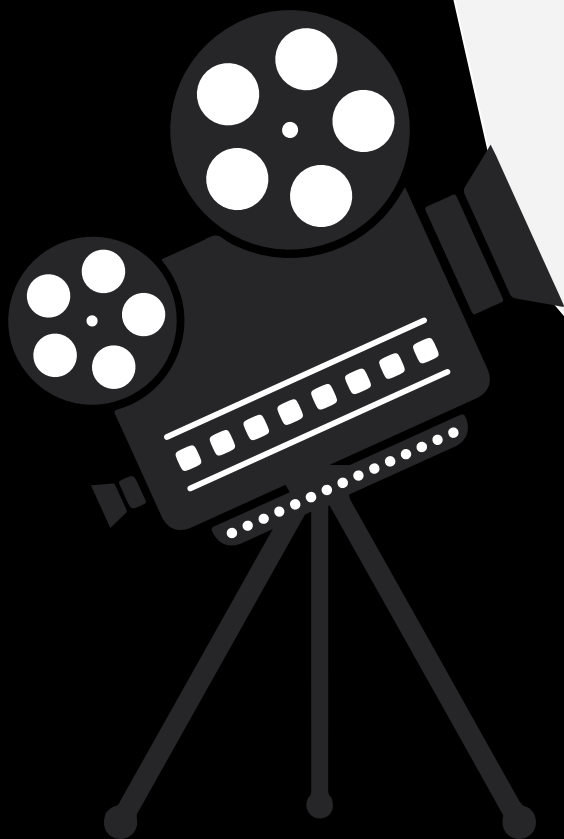
**\$23.74B**

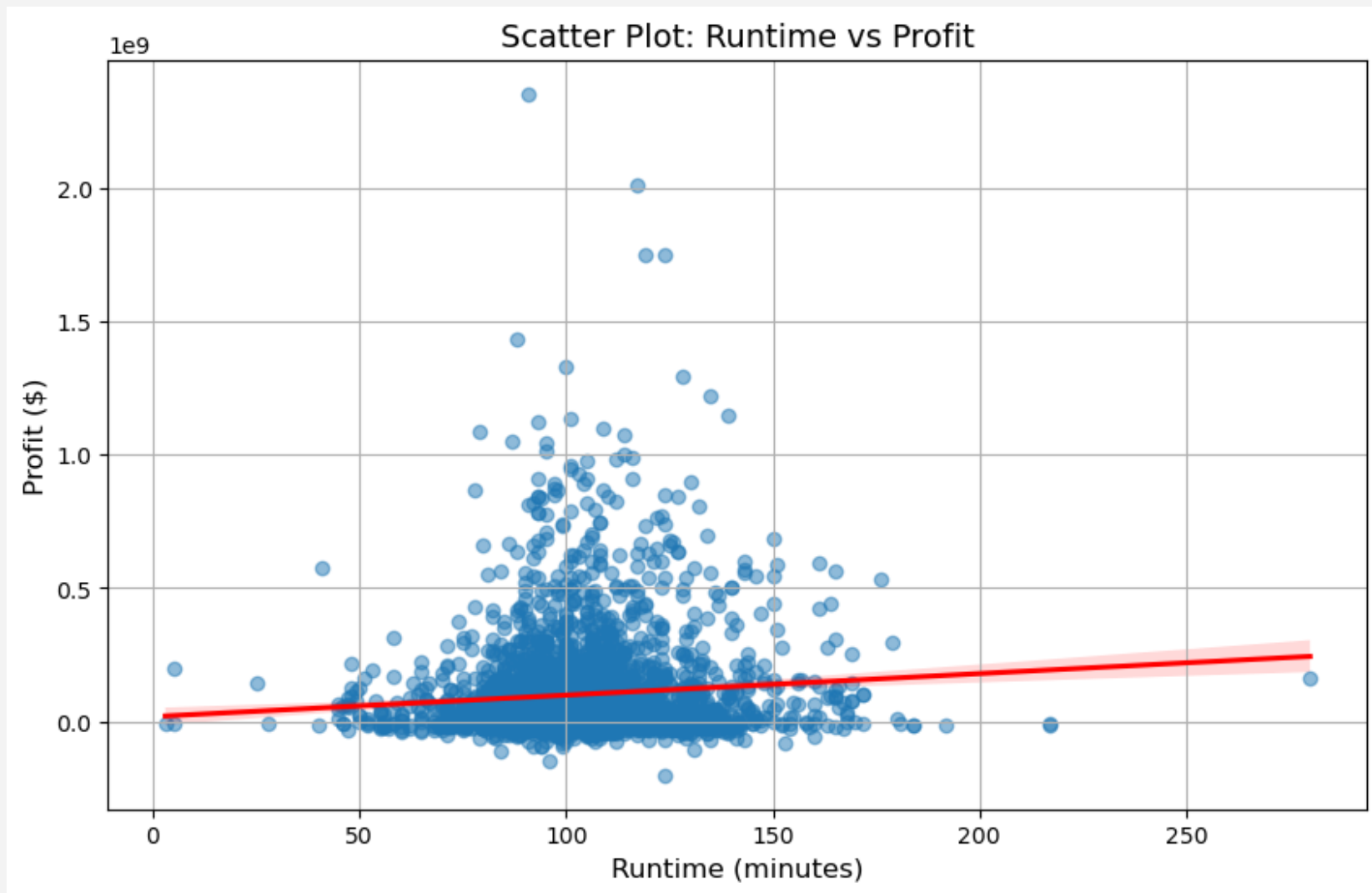
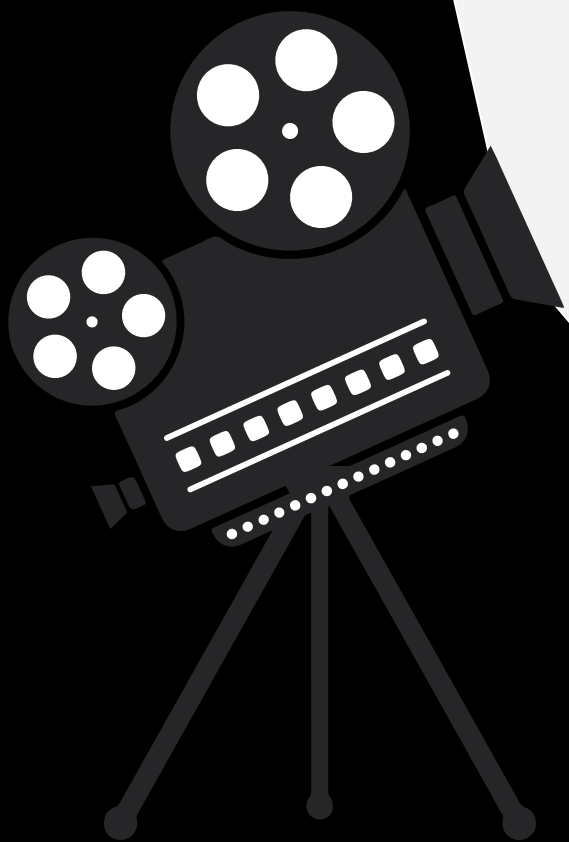
- Drama is the  
most profitable



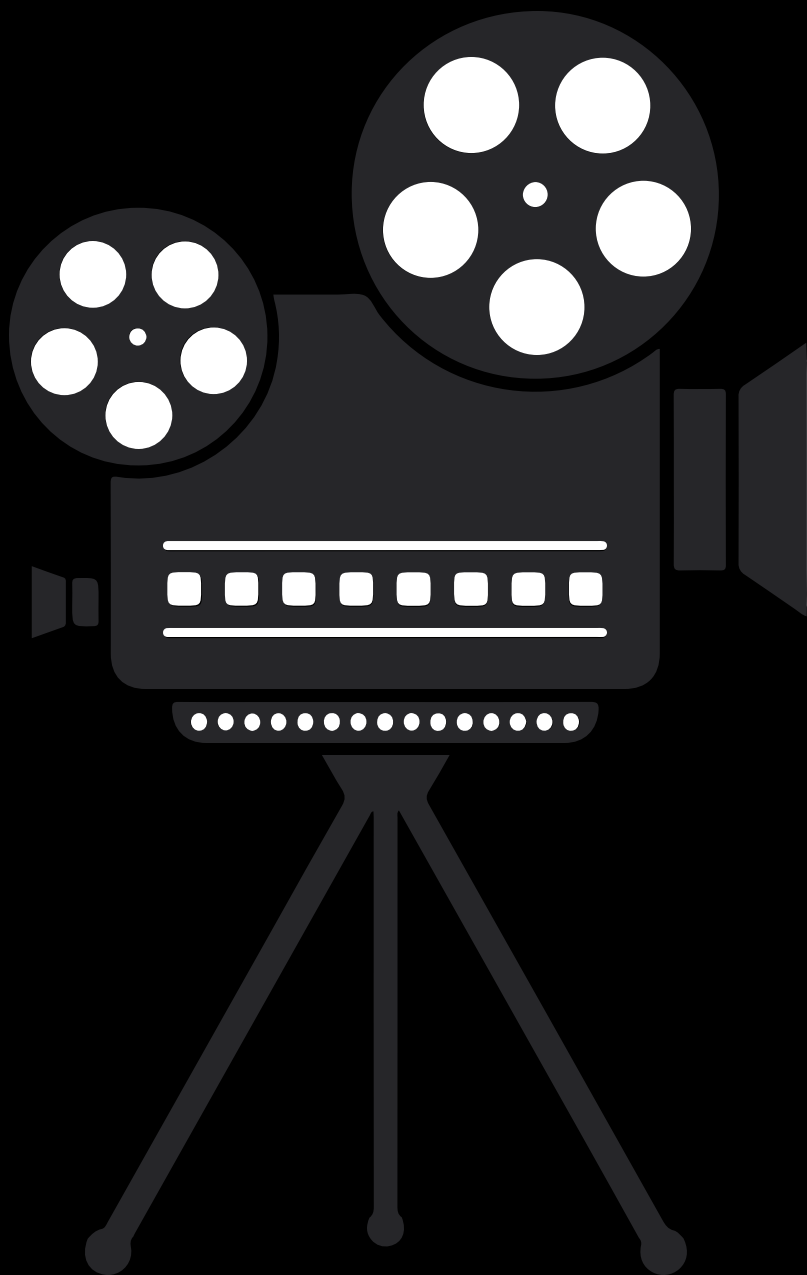
- Bigger budgets,  
bigger earnings











## Business Recommendations:

- 🎯 Smart Budgeting for Maximum ROI
- 🎥 Diversify Investments
- 🎬 Optimize Movie Runtime for Maximum Profit
- 🦄 Genre Optimization & Market Trends
- ⭐ Beyond Budget: Marketing & Star Power Matter
- 🕒 Timing is Everything
- 🔬 Future Research & Model Refinement



# Next Steps

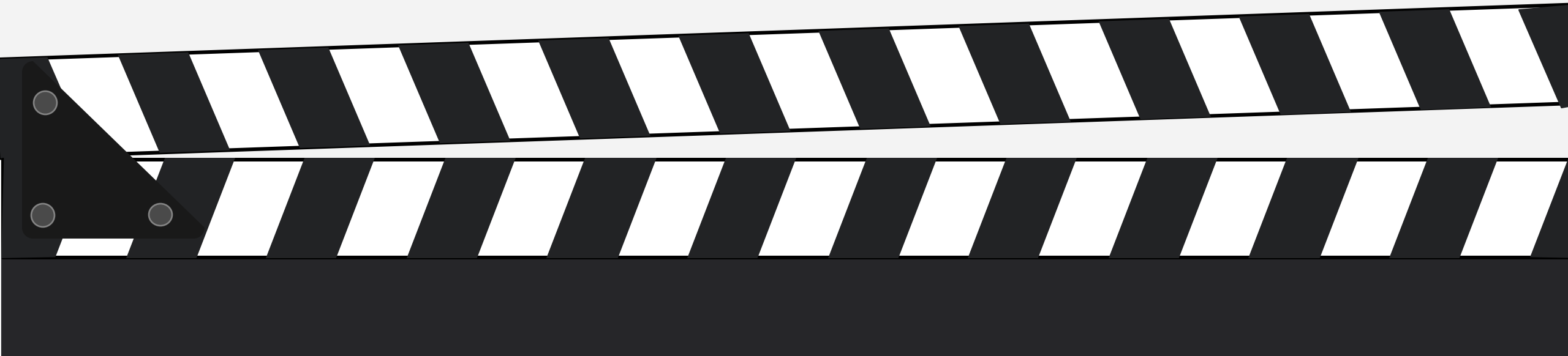
- How do we proceed?
  - Check for multicollinearity
  - Normalize residuals
  - Consider marketing spend, genre & star power as predictors

A graphic of a clapperboard. The top bar has a black and white diagonal striped pattern. Below it is a solid light gray bar. The main body of the clapperboard is dark gray. The word "Questions?" is written in white, bold, sans-serif font in the center of the dark gray area.

**Questions?**

# COMPILED BY:

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- Paul





Thank you!