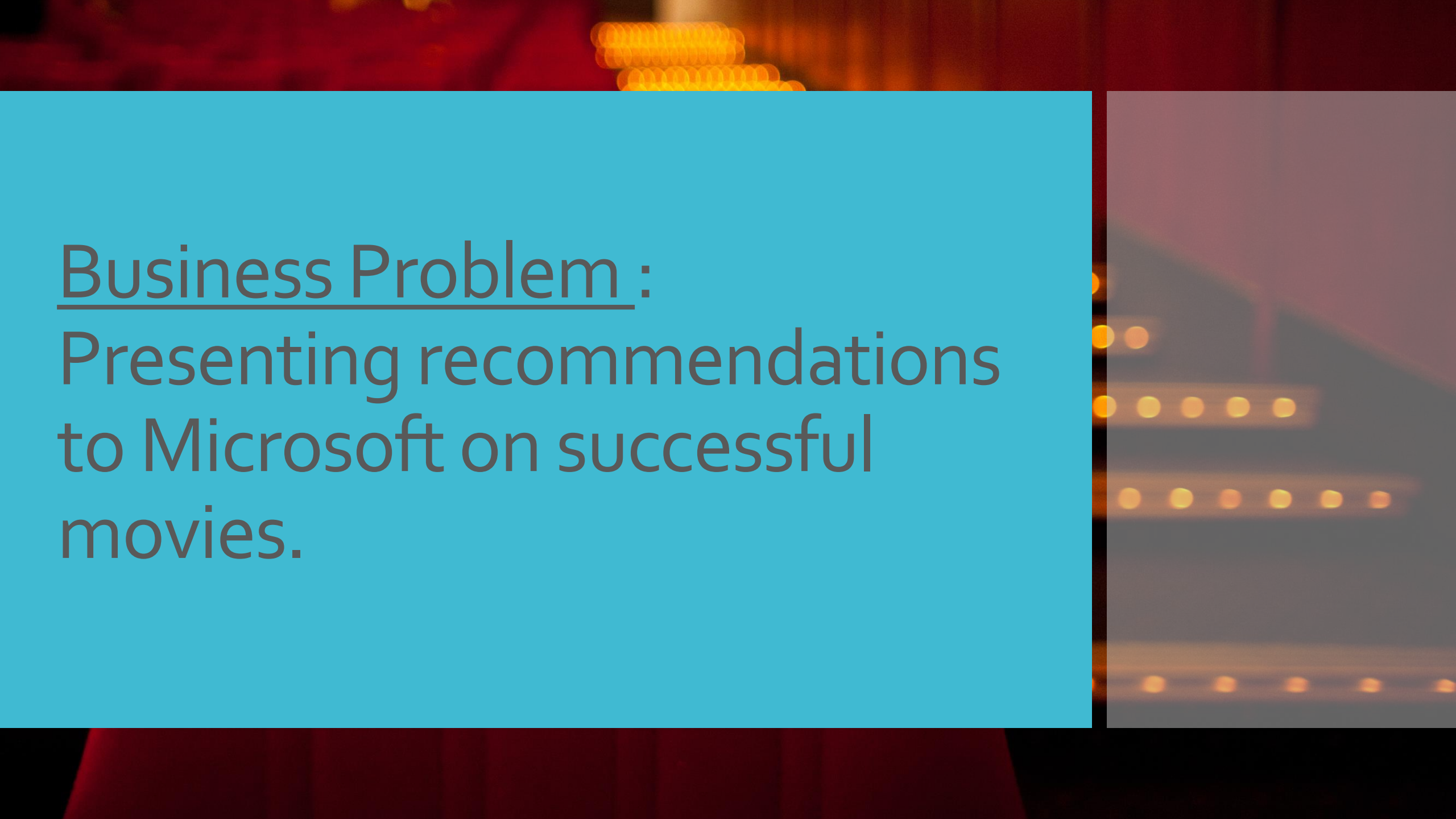


Movie Success Analysis

By Andrew Levinton
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Business Problem :
Presenting recommendations
to Microsoft on successful
movies.



Source	Length	Movies dating from _____ to _____
Rotten Tomatoes: Reviews and Movie Info	Merged – 54,672 Data Points	1958 to present
The Numbers : Movie Budgets	5782 Data Points	1915 to present
IMDB and The Numbers: Movie Budgets	Merged – 43,969 Data Points	1915 to present

The Data

IMDb

Overview of Study

Exploratory Data Analysis

- Data Prepped and Cleaned
- Statistical visuals Generated and Observed

Key measurements of success used for recommendations:

Revenue

Profit

Return on Investment

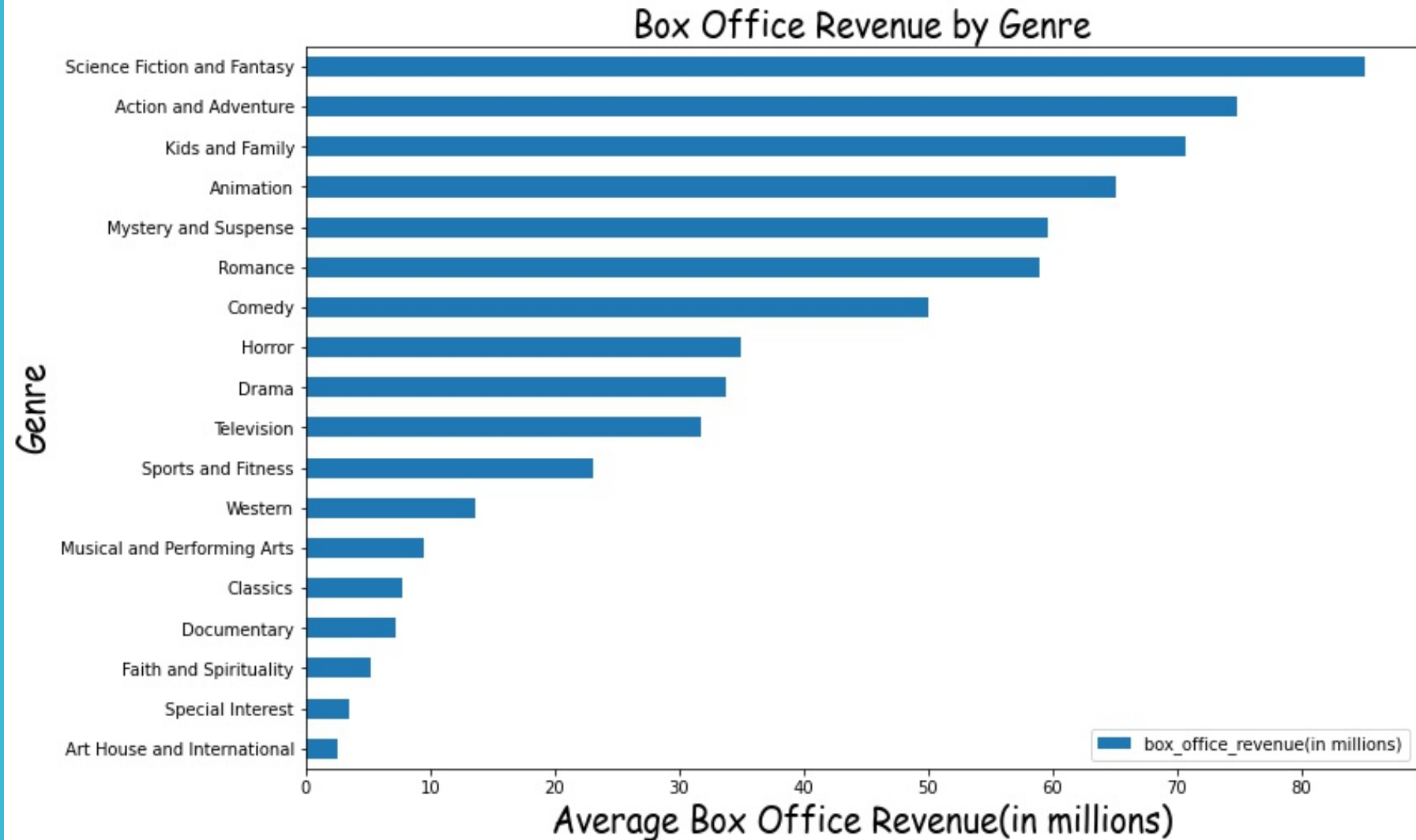
Question #1 - What **Genres** lead to the **most revenue** at the **box office**?

Highest Grossing Genres:

- Science Fiction and Fantasy
- Action and Adventure
- Kids and Family

Medium-High Performing:

- Romance
- Mystery and Suspense
- Animation
- Comedy



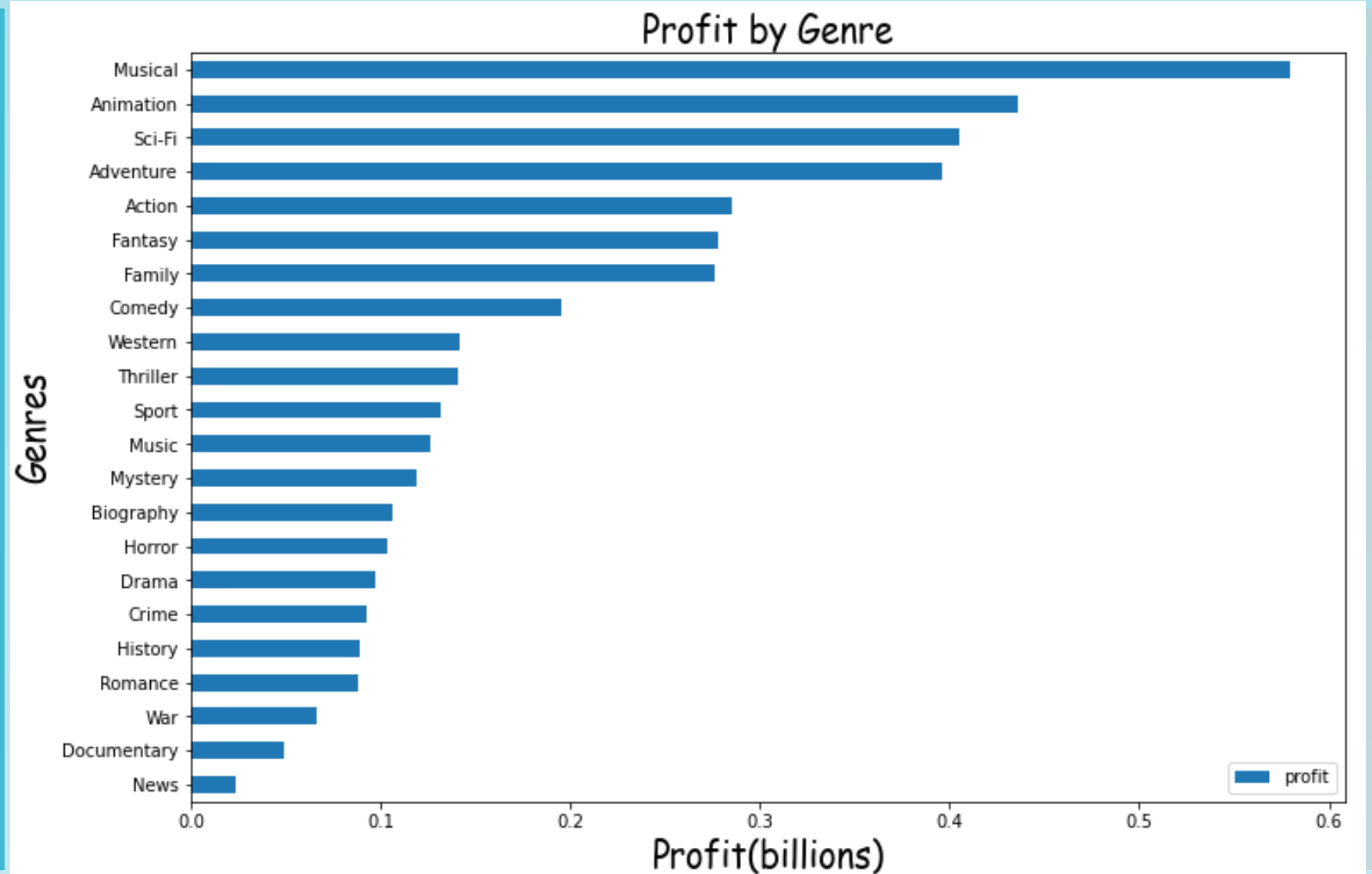
Question #2 - What **Genres** lead to the **profit**?

Highest Profit Genres:

- Musical
- Sci-Fi
- Animation

Medium-High Performing:

- Action
- Fantasy
- Family
- Comedy

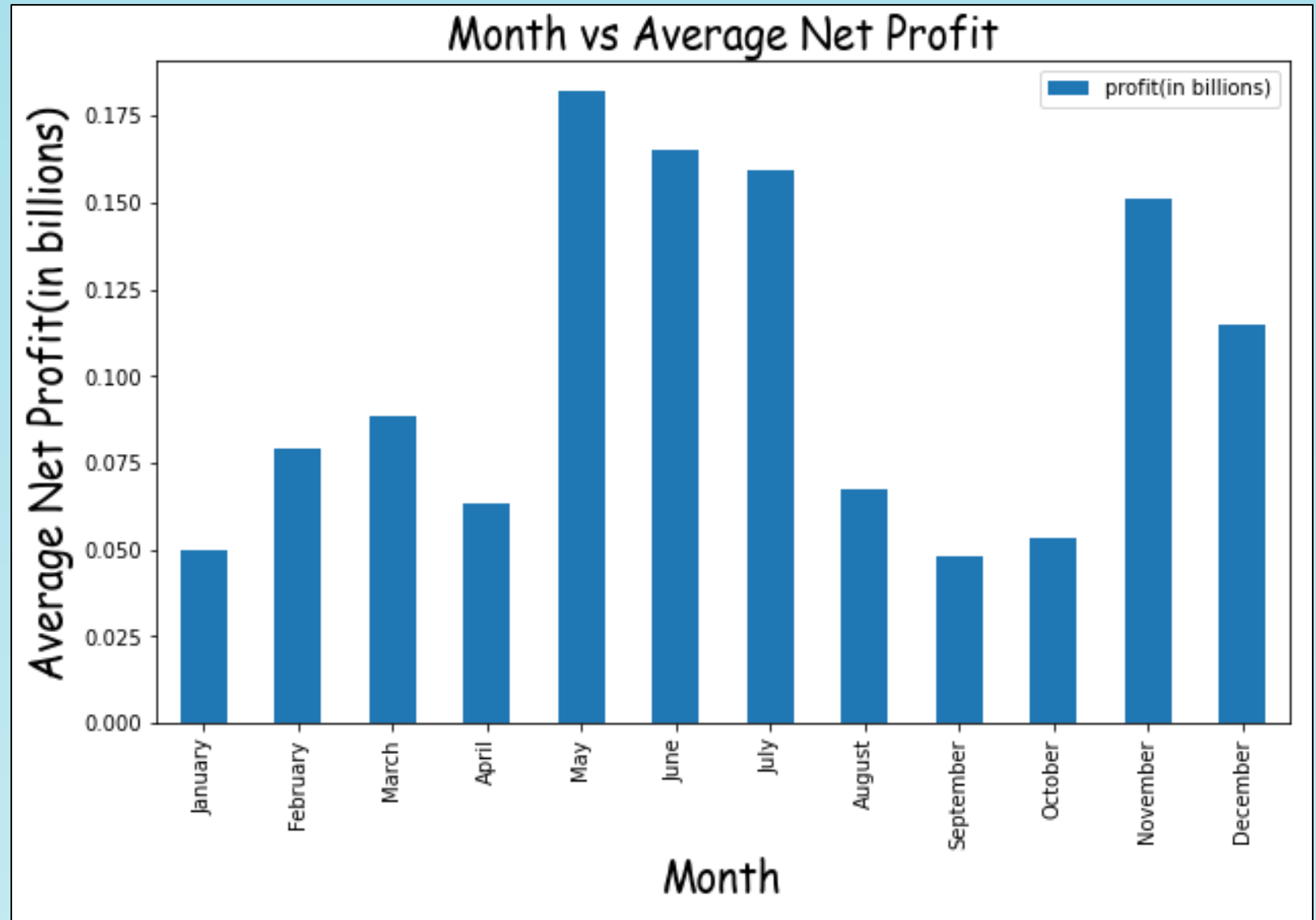


Question #3 - What **time of the year** leads to the **highest net profit**?

Highest Months for Profit:

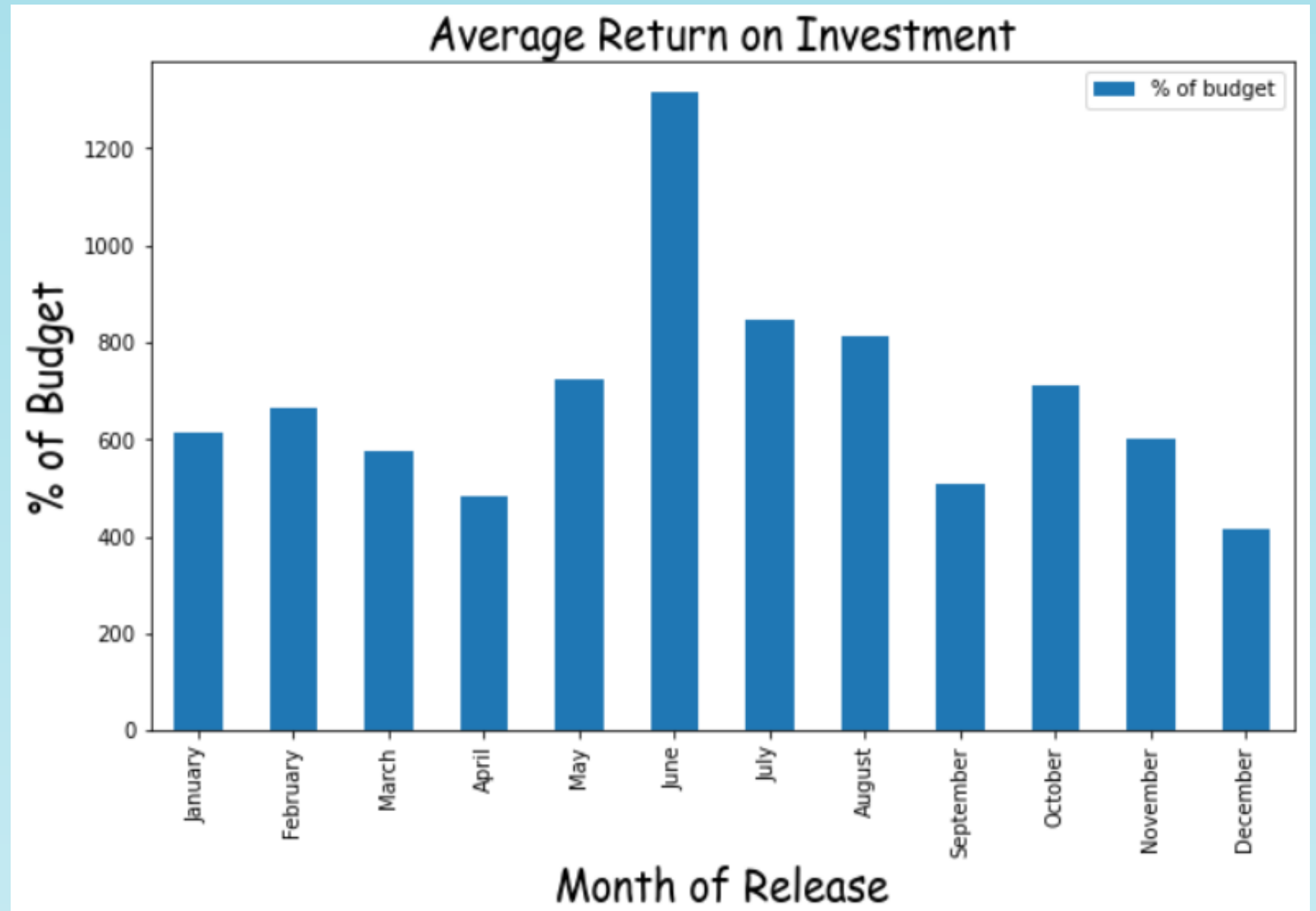
- May
- June
- July
- November
- December

This is likely due to the Summer and holidays months being so popular for movies.



Question #4 - What time of the year leads to the highest return on investment?

June - highest potential for return on investment.

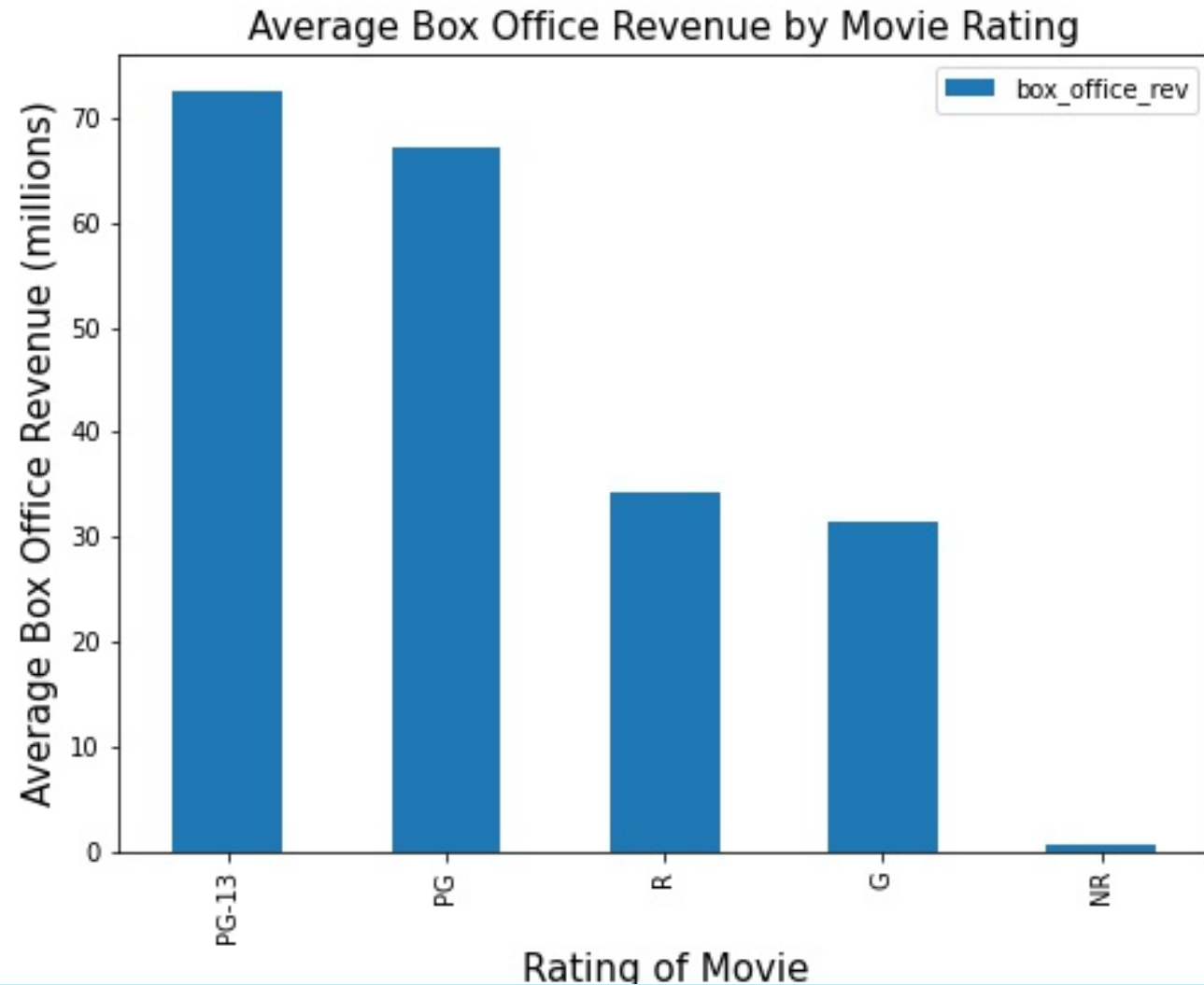


Question #5 - What rating leads to the highest box office revenue?

- The **average revenue** for ratings appears to favor **PG and PG-13** films

Possible reason:

- Rated **R** and **G** movies will by design exclude a subset of viewers for a population due to **age**.

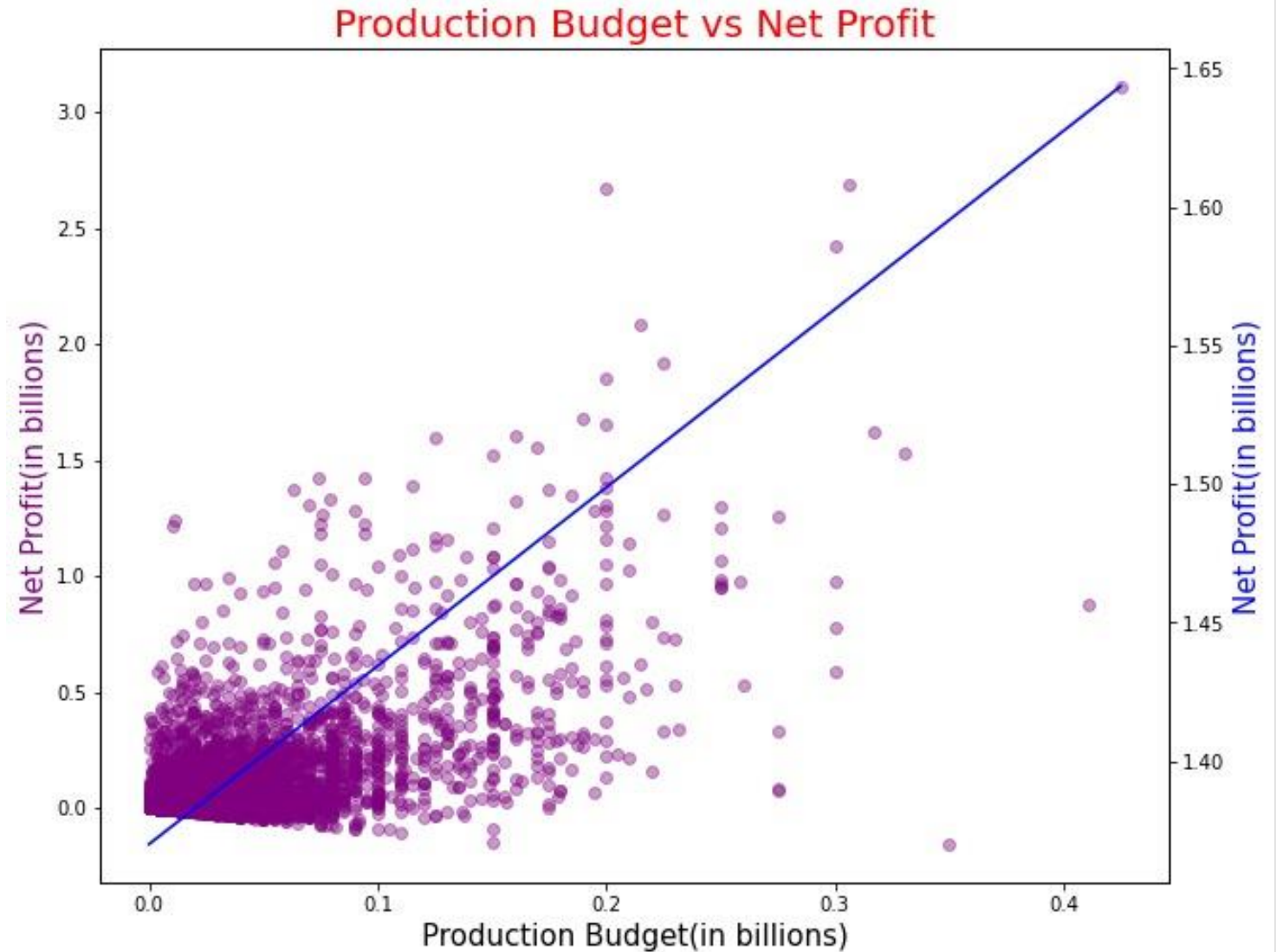


Question #6 - Does a higher budget lead to a higher net profit?

Correlation Coefficient of
Production Budget to
Net Profit: .64



Medium Positive
Correlation – more
reliable with a lower
budget.



Moving
forward

- Recommendations

#1: Keep the Budget low to manage risk.

#2: Release Movies during the Summer and the Holiday Season.

#3: Maximize these Genres:

- Action, Adventure
- Science-Fiction, Fantasy, Animation
- Musicals
- Preferably in the PG, PG-13 rating.