

# Microsoft Movie Analysis

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# Business Problem

Microsoft wants to start a new movie studio to create its own films but has no experience in creating movies. The head of Microsoft's new movie studio needs help in identifying what type of films are performing best at the box office in order to increase the probability of success and profitability.



# Methods

- Import and explore data to determine what information is available
- Find top 10 genres based on total gross revenues
- Determine if movie length affects total gross revenues
- Identify how production budget relates to total gross revenues

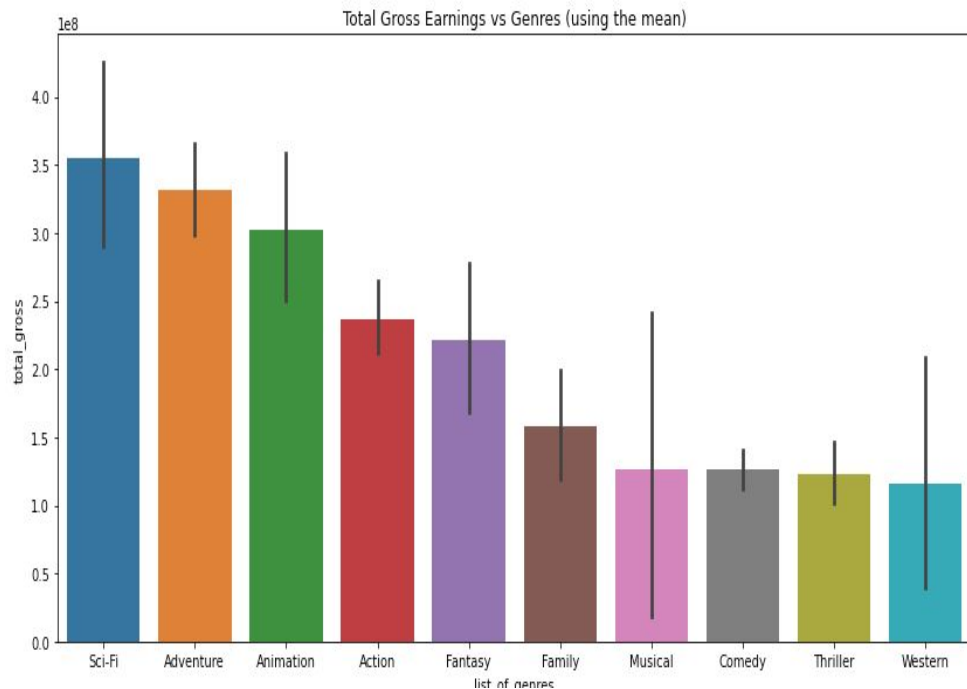


# Data

- Online data source is primarily IMDb ([imdb.com](https://www.imdb.com))
- Final data set includes 1,008 films
- Film release years: 2010 - 2018
- Data includes genres, runtime minutes, and domestic/foreign gross totals

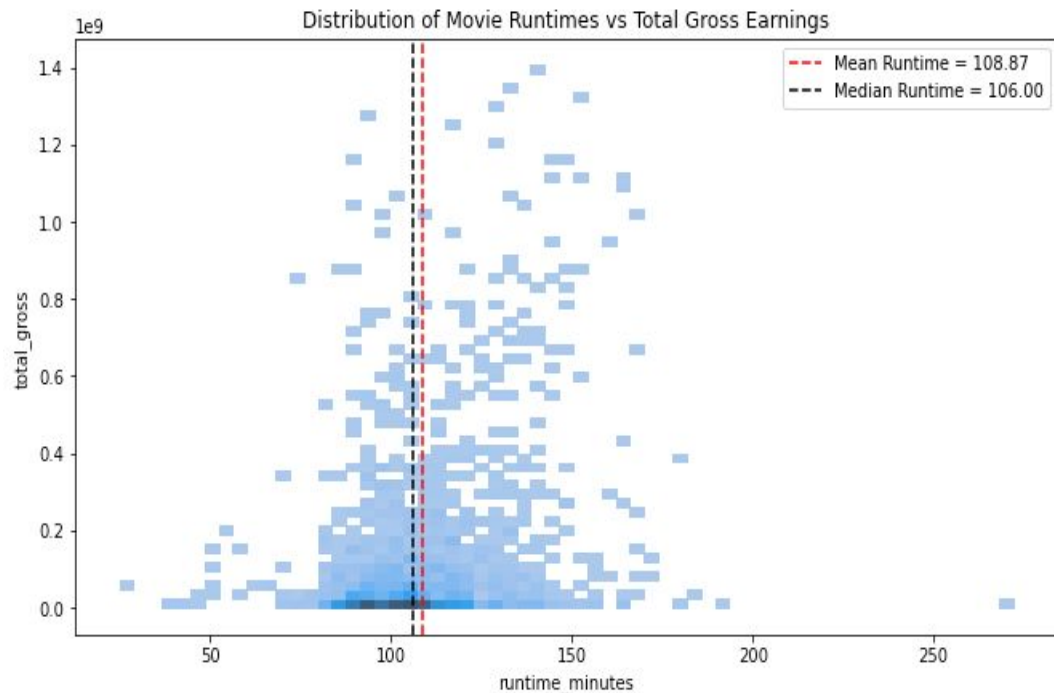


# Question #1: Which genres are most profitable?



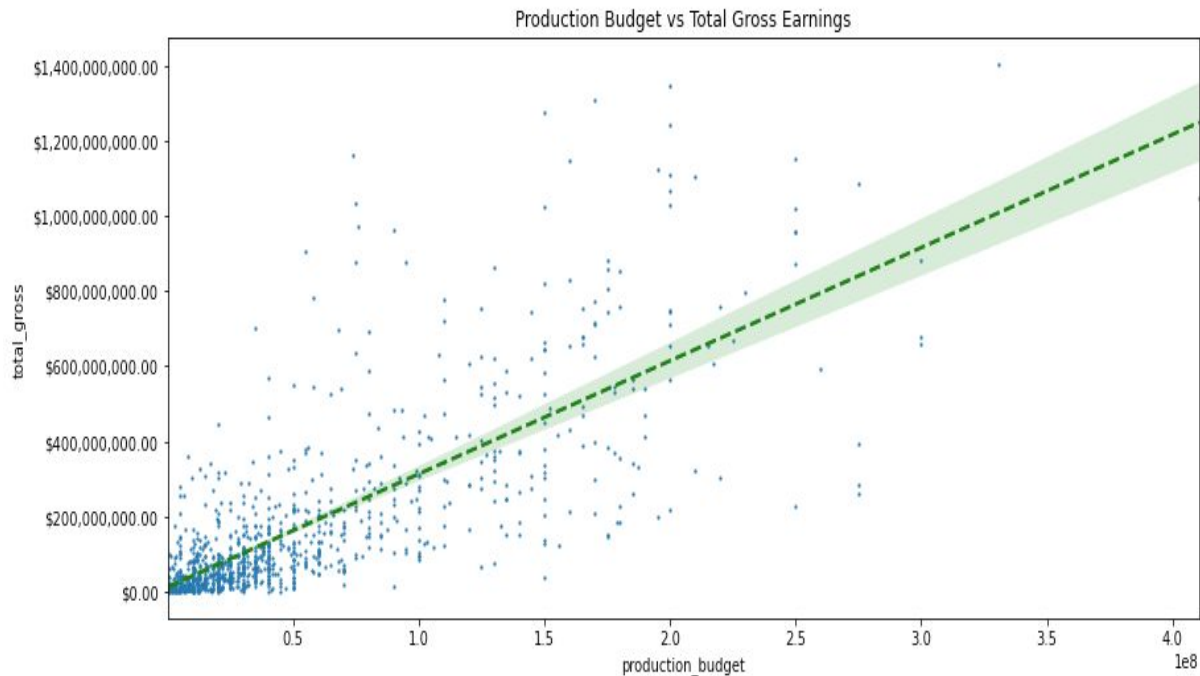
- Sci-Fi genre has highest total gross revenue mean
- Movies can fall into multiple genres

## Question #2: Do runtime minutes influence revenues?



- Recommended Range:  
100 minutes to 150 minutes

## Question #3: How budgets relate to revenues?



- Higher budgets generally produce higher revenues

# Conclusions

To optimize probabilities of success and profitability, Microsoft should:

- Focus on the Sci-Fi genre (or combination of top grossing genres)
- Set runtimes between 100 - 150 minutes
- Maximize production budgets to generate higher revenues







# Thank You!

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