

# Maximizing your chances at a financially successful film

---

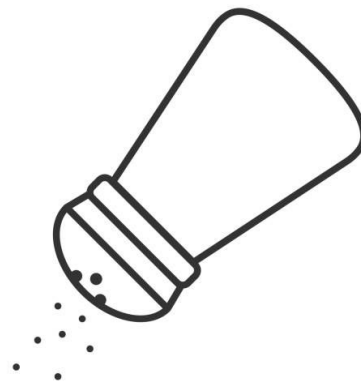
Matt LeRoi

February 14, 2025

# Summary

Analysis reveals the following trends:

- Low budget horror films = high return on investment
- Big budget animation and sci-fi films = big blockbusters
- Higher ratings = more money



# Outline

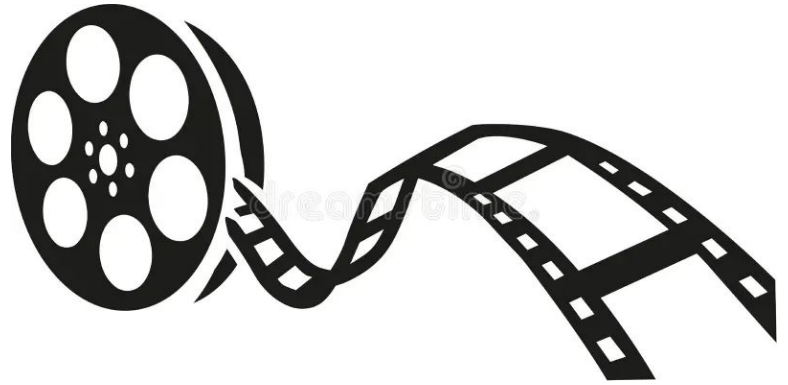
- Business Problem
- Data
- Methods
- Results
- Conclusions / Recommendations

# Business Problem

Acme Co. is getting into the film business!

Financial success can mean:

- Total net profit  
 $\text{Profit} = \text{gross} - \text{budget}$
- Return on investment (ROI)  
 $\text{ROI} = \text{net profit} / \text{budget}$



# Data

Two sources:

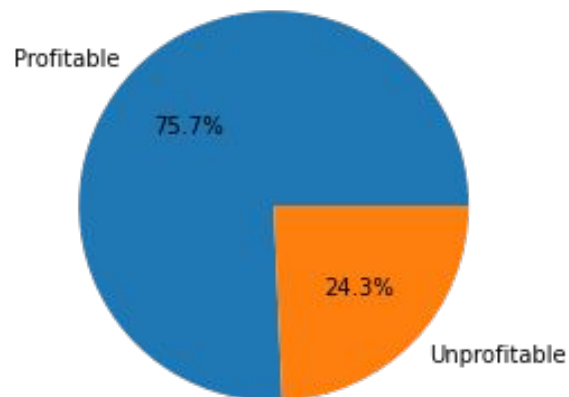
Financial:

<https://www.the-numbers.com/>

Film details:

<https://www.imdb.com/>

Proportion of Profitable vs. Unprofitable Films



# Methods

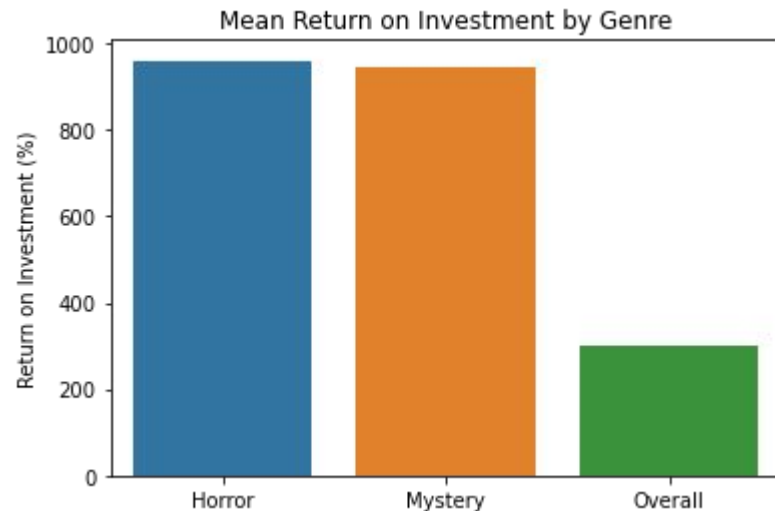
Created linear models based on:

- Genre
- Rating
- Runtime
- Release month
- Budget

# Results - Return on Investment (ROI)

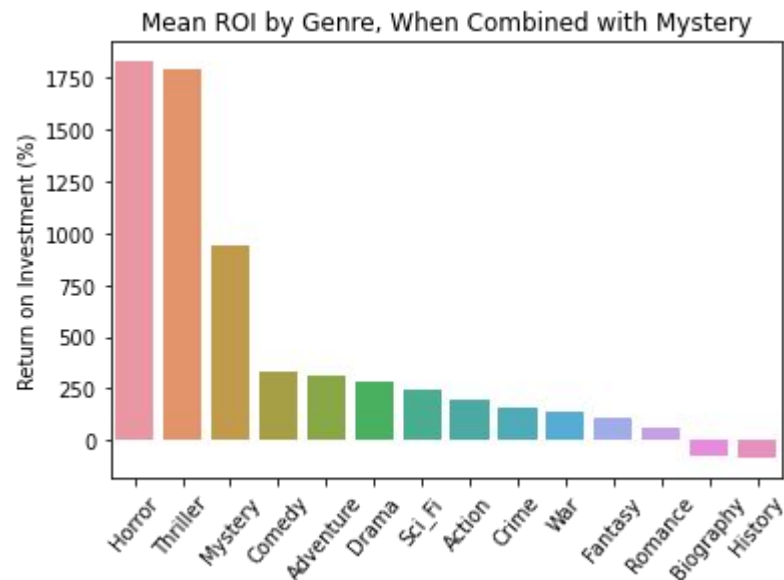
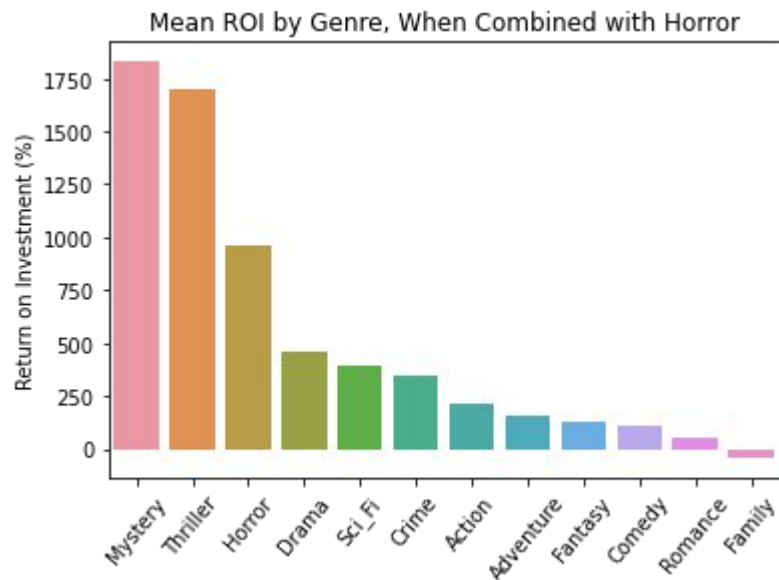
Statistically significant results:

- Genre (Horror and Mystery)
- Rating
- Runtime



# Results - ROI

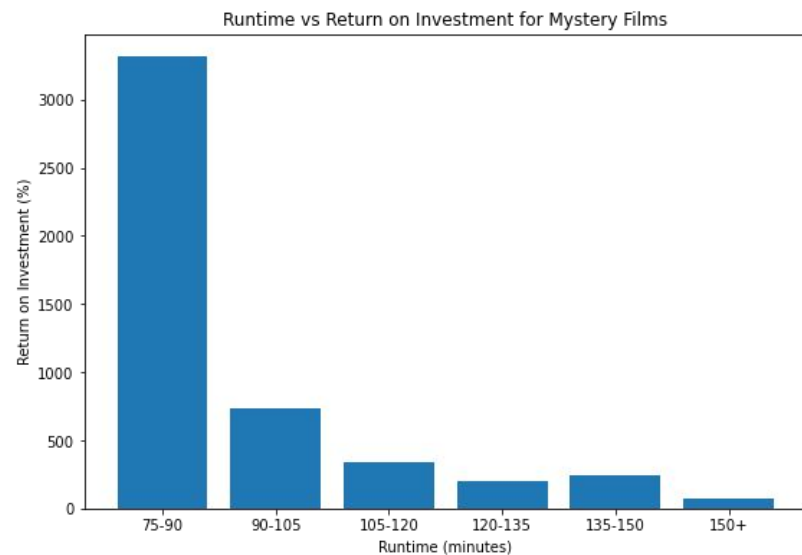
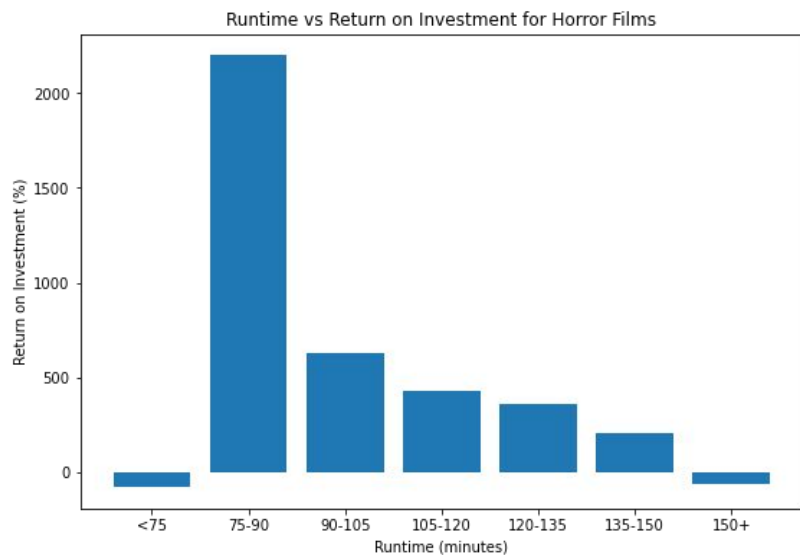
Horror + Mystery = secret sauce





# Results - ROI

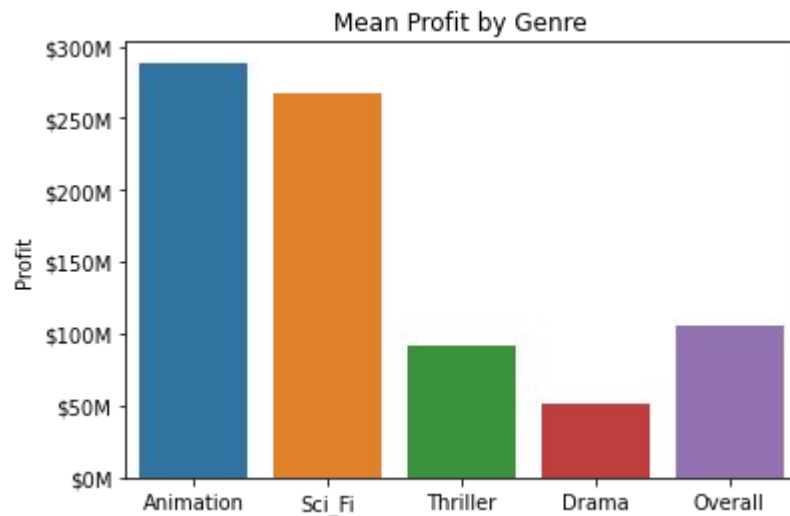
Runtime should be 75-90 minutes



# Results - Net Profit

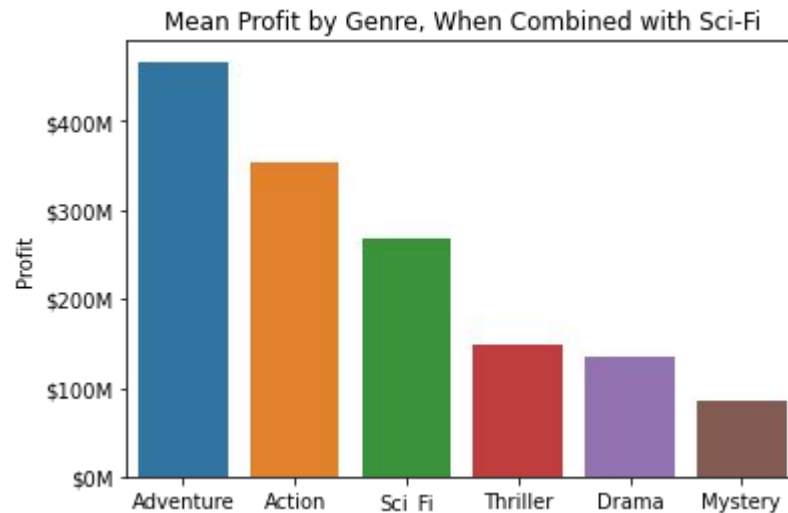
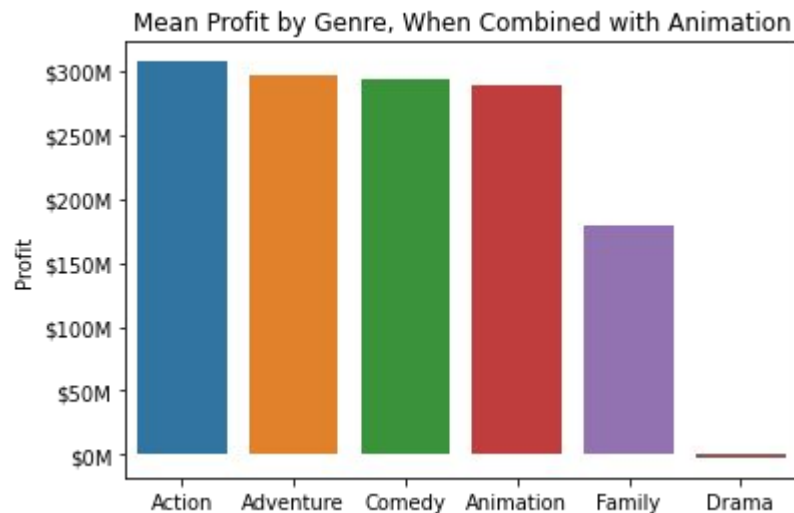
Statistically significant results:

- Budget
- Genre (Animation, Sci-Fi, Thriller, Drama)
- Rating
- Runtime



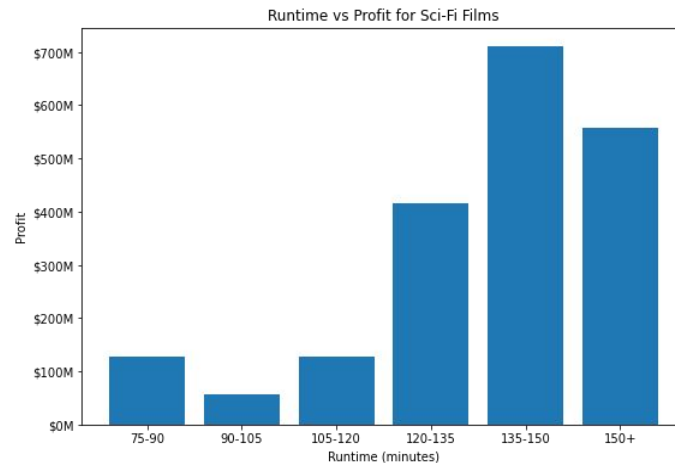
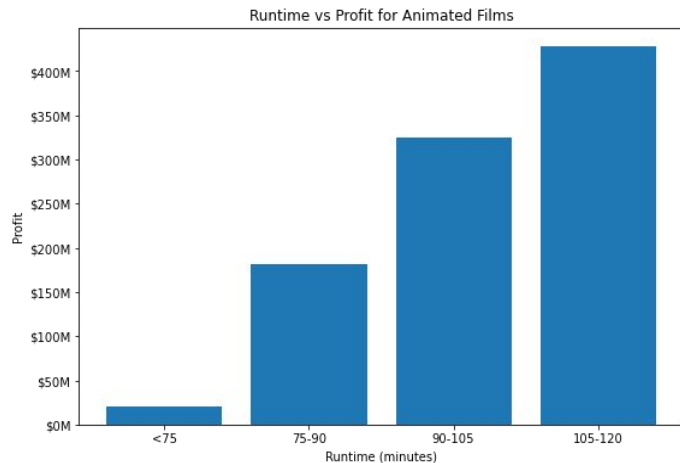
# Results - Net Profit

- Combine Animation with Action, not drama
- Combine Sci-Fi with Adventure



# Results - Net Profit

- Animated runtime should be 105-120 minutes
- Sci-Fi runtime should be 135-150 minutes



# Conclusions - Maximize ROI

- Genre: horror + mystery
- Rating: higher = better
- Runtime: 75-90 minutes

# Conclusions - Maximize Net Profit

- Budget: higher budget = higher net profit
- Genre: Animation or Sci-Fi
- Rating: higher = better
- Animation runtime: 105-120 minutes
- Sci-Fi runtime: 120-135 minutes

# Thank You!

**Email:** [mcleroi@gmail.com](mailto:mcleroi@gmail.com)

**GitHub:** @mcleroi

**LinkedIn:** [linkedin.com/in/mcleroi/](https://www.linkedin.com/in/mcleroi/)