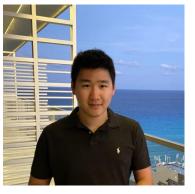
Microsoft Movie Recommendation Unit

BOX OFFICE INSIGHTS

MEET THE TEAM



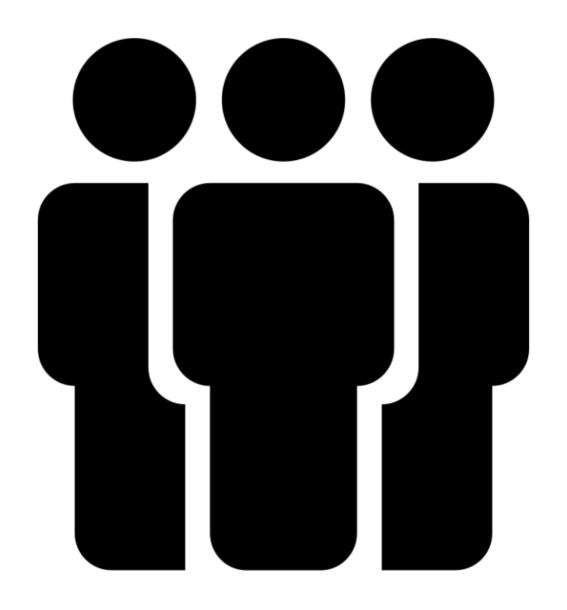
DOUG MILL Budget to Gross



CARLOS MCCRUM
Impact of Genres



MICHAEL LEE
Seasonality of Movies



AGENDA

BUSINESS PROBLEM

DATA & METHODS

RESULTS

CONCLUSIONS

FUTURE INVESTIGATIONS



Business Problem

Our Objective:

- → Optimize resource allocation for the Microsoft Movie Studio
- → Determine the best time of year to release projects
- → Provide insights about various genres in terms of costs and returns



Go big or go home -- How Microsoft can make a splash

See why releasing a high budget Sci-Fi Adventure in the spring is your best bet!

DATA & METHODS

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Steps to Formatting Our Dataset



THE DATA

• IMDb

Microsoft's Top Competitor (2015-2018)

The Numbers

Over 20,000 movies and nearly 100,000 people tracking what movies are enjoyed

Box Office Mojo

Provides comprehensive box office data for 60+ countries and territories.

Methods



→ We only included movies with a budget and a worldwide gross of 1M or more

→ Data only includes films released 2010-2020

RESULTS and ane-box; display: inline-block; fo

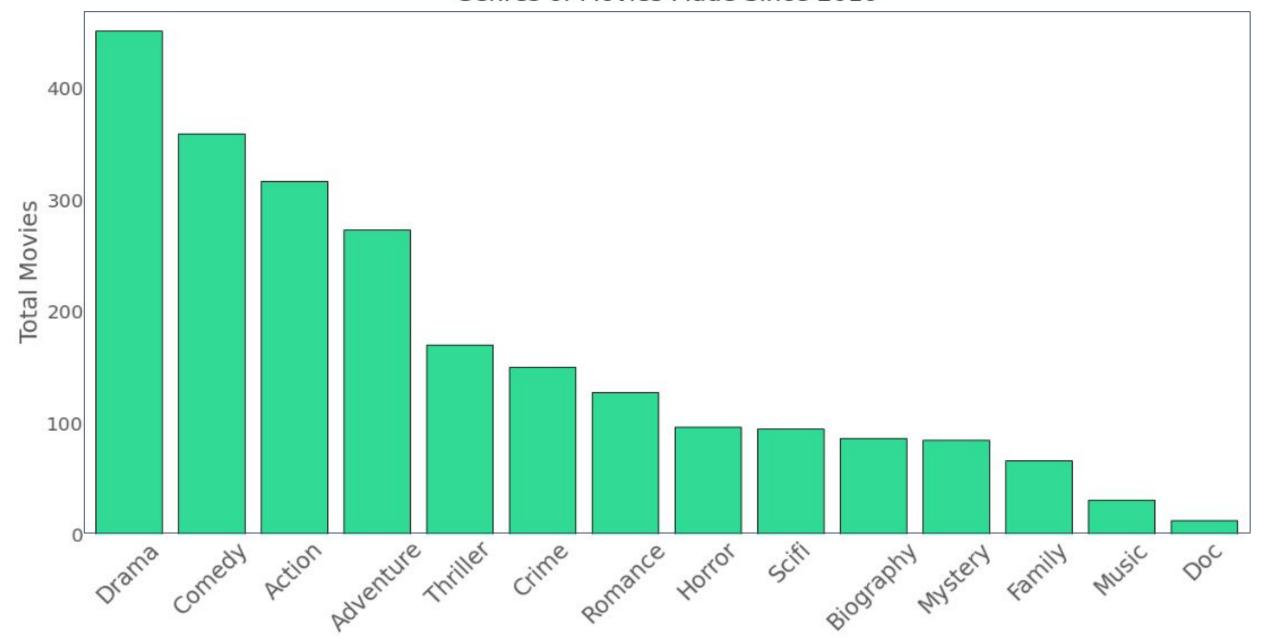
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Genres of Movies Made Since 2010



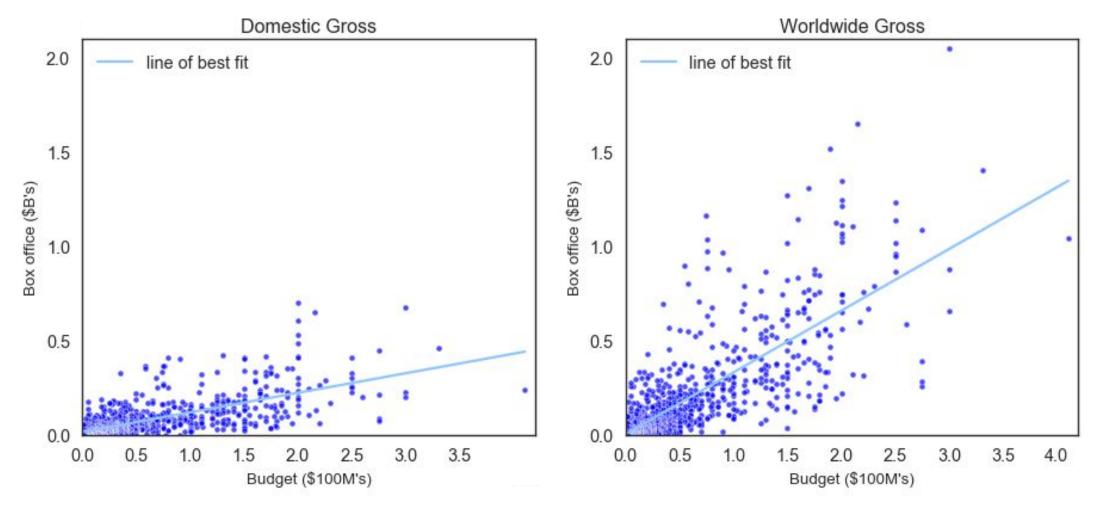
Worldwide Gross 300M 250M **Gross Amount** 200M 150M Median 100M 50M loventure. Thriller Crime Myster Pamily Music

Sci-Fi is Popular

→ We've separated our genres to see what movies people are seeing the most since 2010.

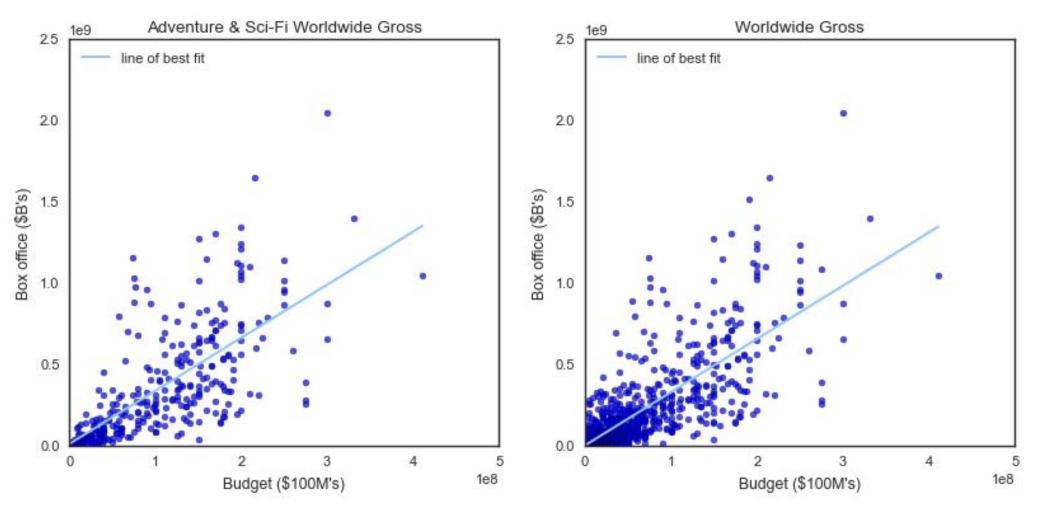
→ Right away we see Sci-Fi and Adventure genres are the most popular!

Global Appeal -> 3x Gross



→ Movies which transcended cultural and geographical barriers paid off in a big way
 → Budget impacts Box Office both domestically and globally

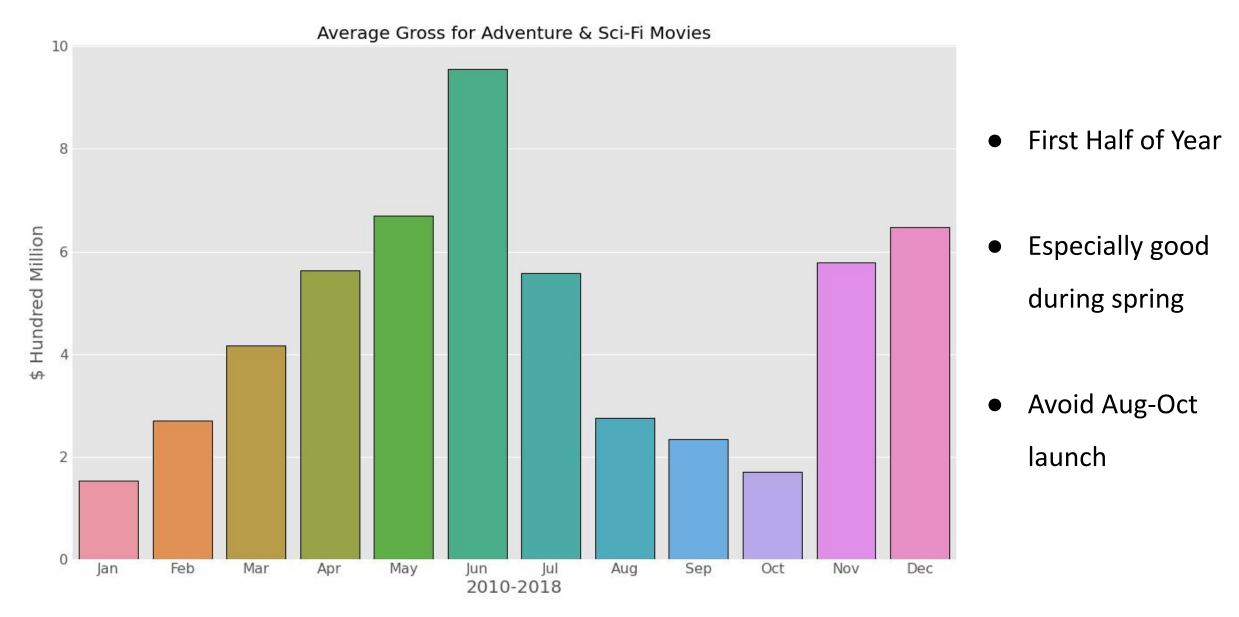
Adventure & Sci-Fi were the most financially and culturally significant

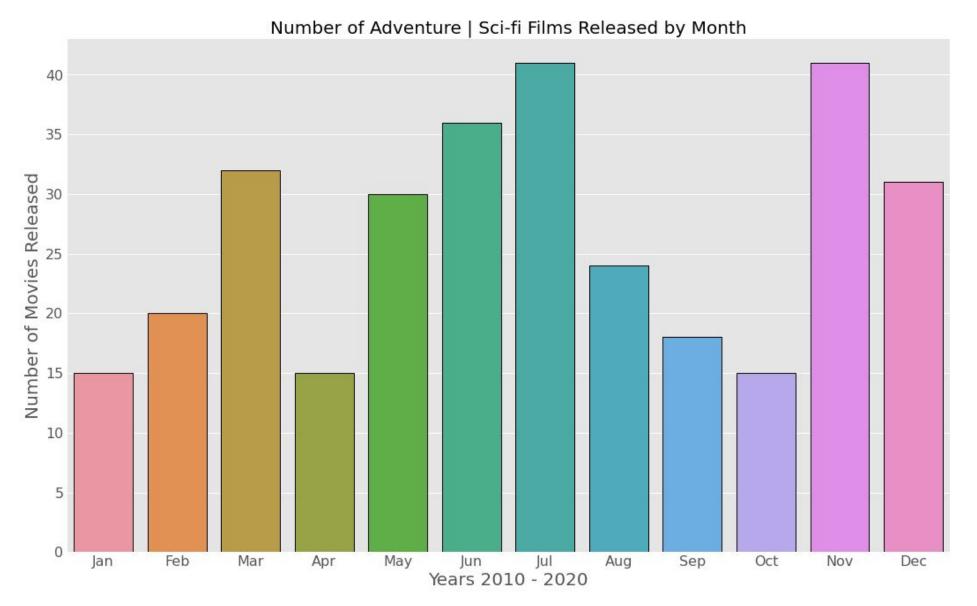


➤ The biggest globally grossing movies line up with the adventure and sci-fi genres

Do Movies Have a Favorite Season?







Spikes May-Jul,& Holiday Season.

 Aim for April for least competition
 High Gross
 Income

CONCLUSIONS

CONCLUSIONS

- The genres that gross the most are Adventure and Science Fiction.
- Higher budgets which include international marketing lead to the highest box office numbers and profit margin.
- Aim for April-July launch. If not, delay until Holiday Season.

FUTURE INVESTIGATIONS

NEXT STEPS

FUTURE INVESTIGATIONS

- Natural language processing (NLP) sentiment analysis on reviews
- More statistical analysis given constraints
- See how Science Fiction is trending over the years

QUESTIONS?

THANK YOU



MICHAEL LEE
CARLOS MCCRUM
DOUGLAS MILL

Github:



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cyborgsage

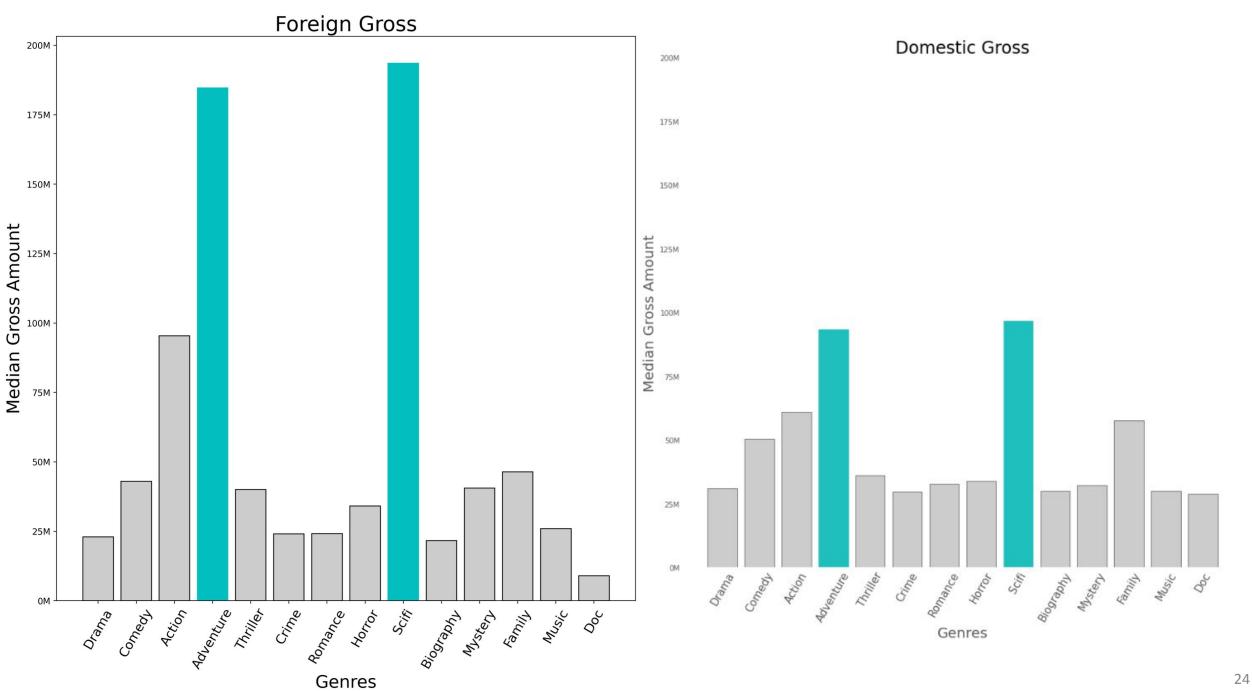
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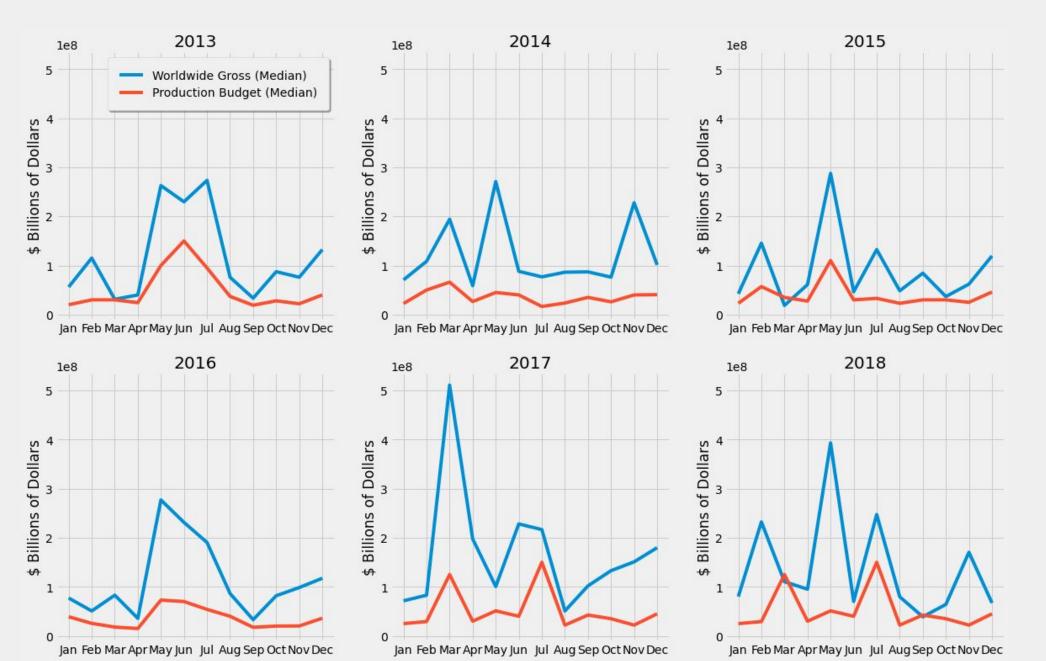


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Microsoft Movie Recommendation Unit

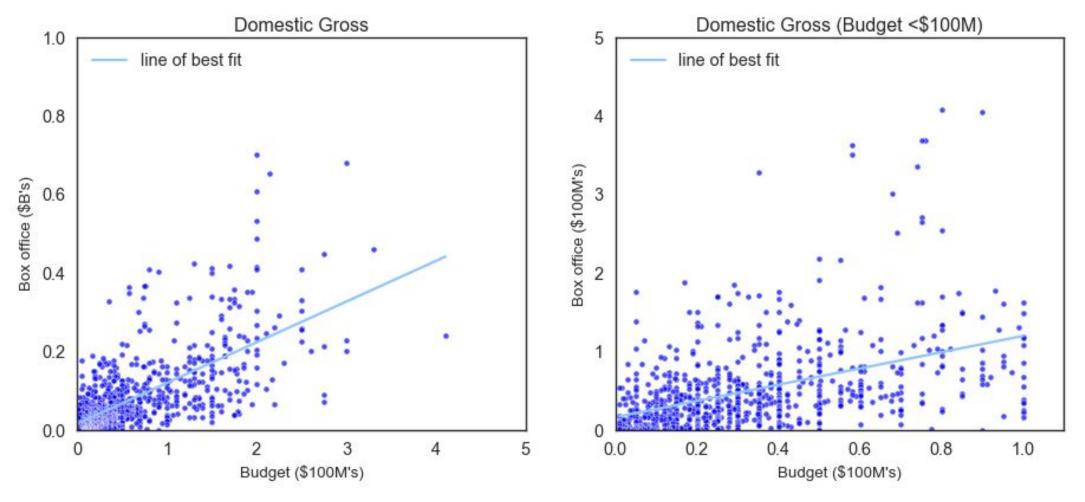
APPENDIX





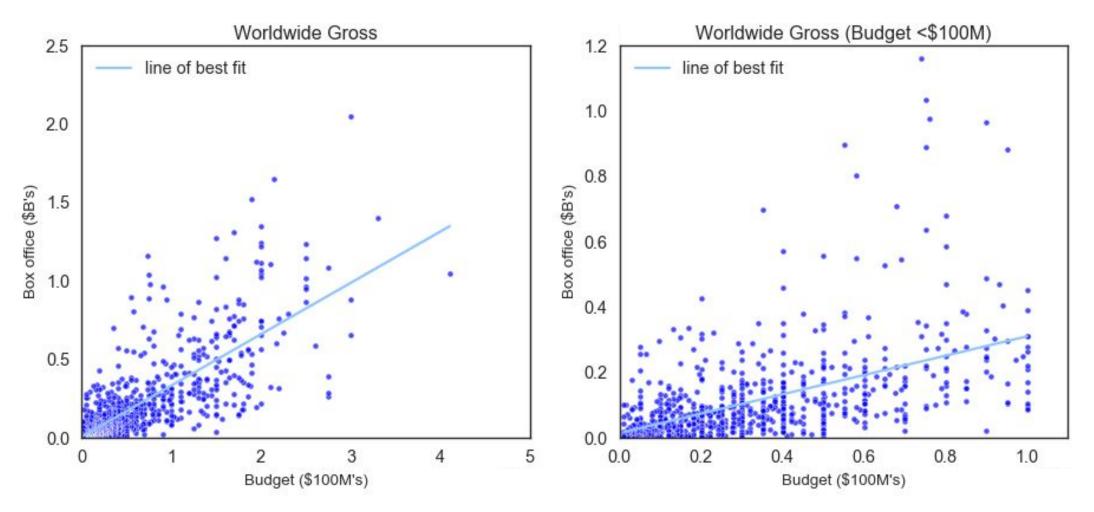
First Half of the Year Outperforms Second half

Domestic Gross & Budget < \$100M



- → Budget:Domestic Gross is 1:1 whereas Budget:Worldwide Gross 3:1
 - → Need for international advertising

Focus: Profit Margin or ROI



→ Movies with Higher Budgets had the Largest Profit Margins
 → Budgets <\$100M have potential for high ROIs, but also a higher chance of failure