The Expensive Adventure

Preliminary Data Analysis for Movie Making at Microsoft





Microsoft Making Movies... At Last

- Microsoft wants to enter the movie business and needs to know which ones do well at the Box Office
- We analyzed over 2,000 movies in the last 20 years from from well-known industry databases and...
- Investigated the following factors to determine their impact on financial performance at the Box Office
 - Genre
 - Budget
 - Directors
- RECOMMENDATION: Make big budget (>\$70M) Adventure movies with directors who have a proven track record of profitability.

Data: Three "Input" Factors and "Output" Metrics

Input

Genre

Production Budget

Director



Output

Gross Revenue

Return On Investment (ROI)

Gross Margin

All numbers consider World Wide Box Office Ticket Sales (ie no streaming, downloads, etc)

Data Process

Get the Data

Used data from both a IMDB database and *The Numbers* website.

Data Cleaning & Refinement

We inspect the data to remove any duplicate or erroneous information.

Analysis

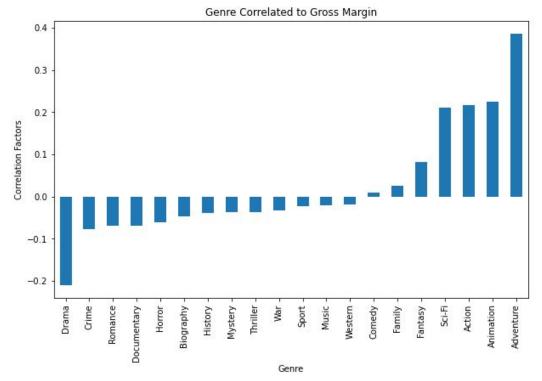
We use computing power to group, sort, and filter data to meet our needs.

Genre: Adventure shows highest correlation to Gross Margin

 Adventure has nearly double the correlation factor than the next genre

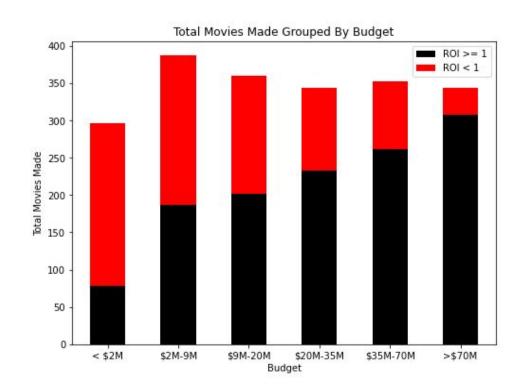
 Animation, Sci-fi, Action, and Fantasy also positive correlation - pair well with Adventure

Stay away from Dramas.



Budget: Big budgets (>\$70M) produce the most movies with ROI >=1

 The trend shows more movies make a profit as budget gets larger



Director: 44 Directors have made 2 or more movies with an average ROI >1

Average ROI by Director for >\$70M Budget Adventure Films Kyle Banda, Chris Renaud, Steve Martino, **Francis** Lawrence, Joss Whedon, **Anthony Russo** have an average ROI > 5 on their movies

Recommendation:

Focus development on big budget (\$70M) adventure movies with directors who have a proven track record.

Genre: Adventure has the highest correlation. Sci-Fi Action, Action Adventure, and Animated Adventures pair well.

Budget: INVEST! Heavily. More big budget movies make money than mid or small budget features.

Directors: They matter! Reach out to Directors with a proven track record of profitability doing Big Budget Adventure Movie!

Questions:

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