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Business Problem

Microsoft wants to create a new movie studio

Our job was to analyze data about current films to determine what factors are correlated with box office success.

After our analysis was complete, we came up with three actionable insights for the head of the new Microsoft movie studio.

Business Understanding

- Focus on current films from 2015 to 2020
- The primary measurement is Median ROI (Return on Investment).
 - (worldwide gross production cost) / (production cost)
 - Removes outliers skewing data
- Focus on the people with expertise in the industry
 - Writers
 - Directors
 - Actors/Actresses

Data Understanding

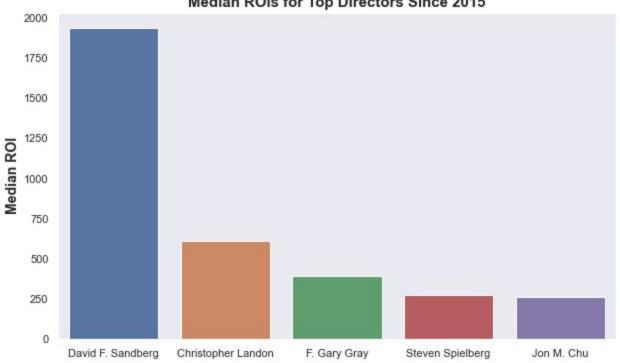
- 1) Calculated Film's ROI
 - a) The Numbers (TN)
 - b) www.the-number.com

- 2) Get Writer, Directors, and Actors for those movies
 - a) IMDb
 - b) www.imdb.com

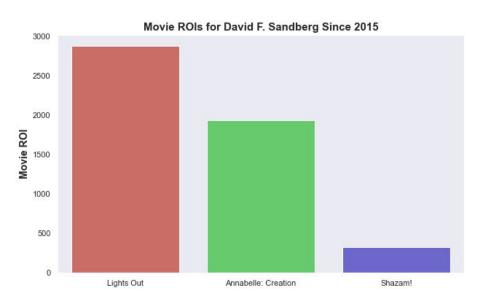
Top 5 Writers Sorted by Median ROI for Each Writing Credit Since 2015 1200 Median ROI for Each Writing Credit (Percentage) 1000 800 600 400 200 0 Jordan Peele Brian Lynch Vijayendra Prasad Derek Connolly Paul Wernick Writer Names

Directors



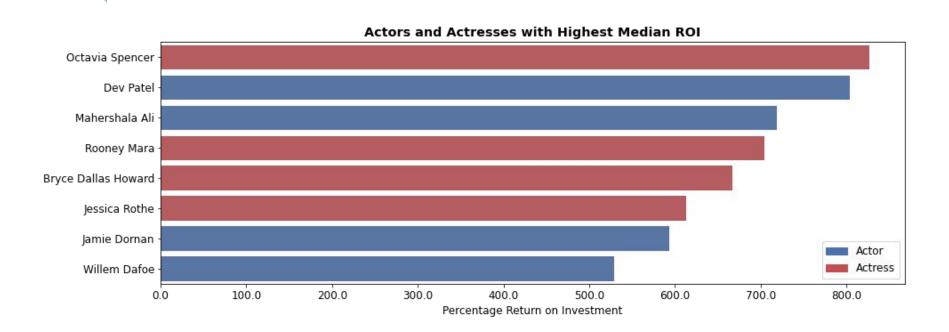


<u>Directors: David Sandberg and Christopher Landon Movies</u>





Actors and Actresses



Recommendations to Microsoft Movie Studios:

- Writers
 - Jordan Peele (Get Out, Us)
 - Bryan Lynch (Minions, The Secret Life of Pets)
- Directors
 - David F. Sandberg (Lights Out, Annabelle)
 - Christopher Landon (Happy Death Day)
- Actors/Actresses
 - Octavia Spencer
 - Dev Patel
 - > Mahershala Ali
 - > Rooney Mara

Next Steps

Analyze the correlations between each recommended person

Look at the relationship between genres and movies with multiple genres

Thank You! Any Questions?

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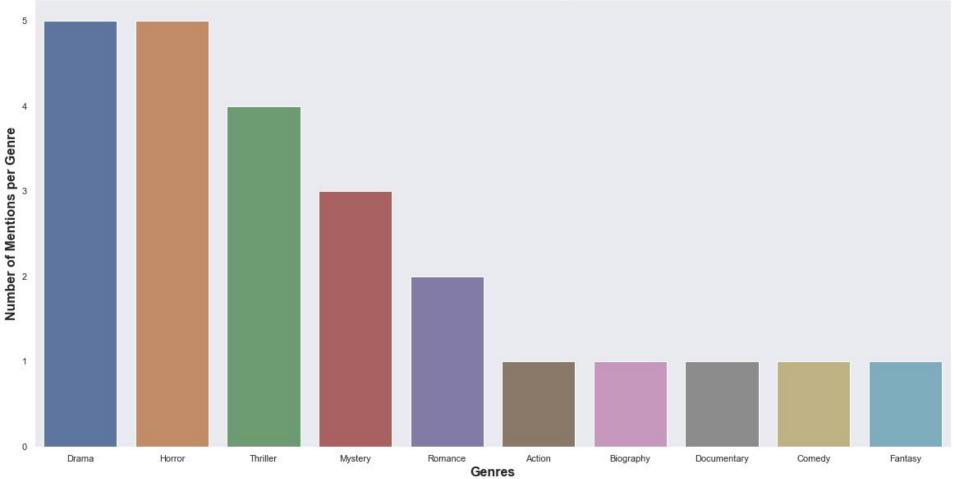
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Appendix

• Further Analysis on Genres with high Median ROI

Genre—Top 10 Films Since 2015

Number of Mentions of Each Movie Genre Sorted by ROI in Top 10 Films Since 2015



Genre—Full data set

Number of Mentions of Each Movie Genre Sorted by ROI in Films Since 2015

