

Using Data to Guide Microsoft's Original Video Content Venture

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Guiding Microsoft's Original Video Content Venture

Descriptive analysis to help Microsoft scope a project to enter the market

- Focus on designing films in the most popular genres while minimizing financial risk.
- Identify the directors most familiar with those genres.
- Identify thematically diverse directors who can help Microsoft realize its vision.

Outline

- Business problem
- Data
- Methods
- Results
- Conclusions

Business Problem

- Identify success
- Constrain the set of options available for the video content
- Identify the director best equipped to manage the content selected

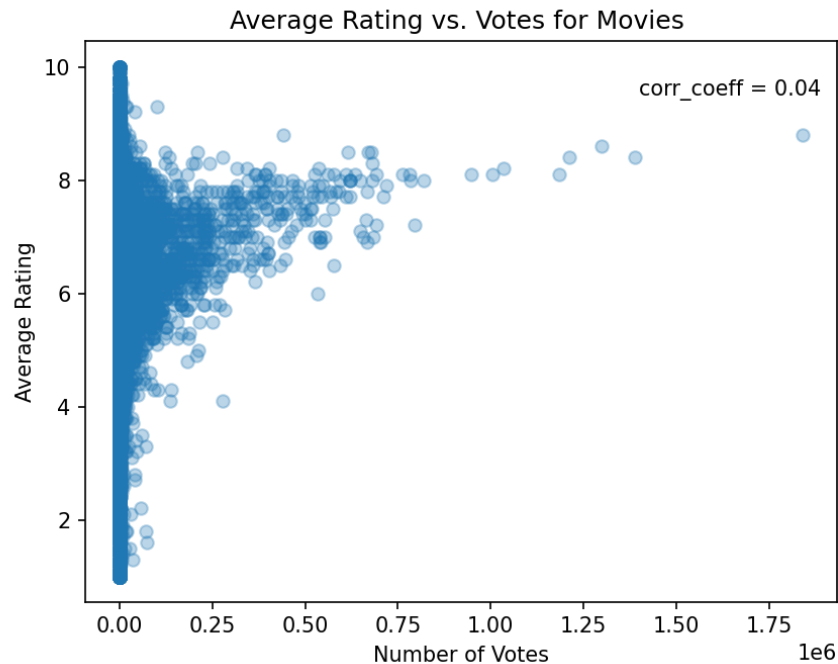


Data

- IMDb -- Movie characteristics data:
 - Database tables
 - Film genre, ratings, people, principal roles
- The Numbers -- Movie production data:
 - Comma delimited file
 - Budget, gross domestic and foreign earnings

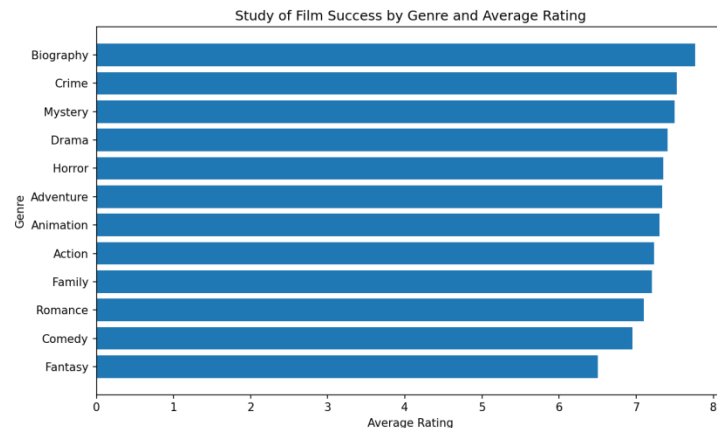
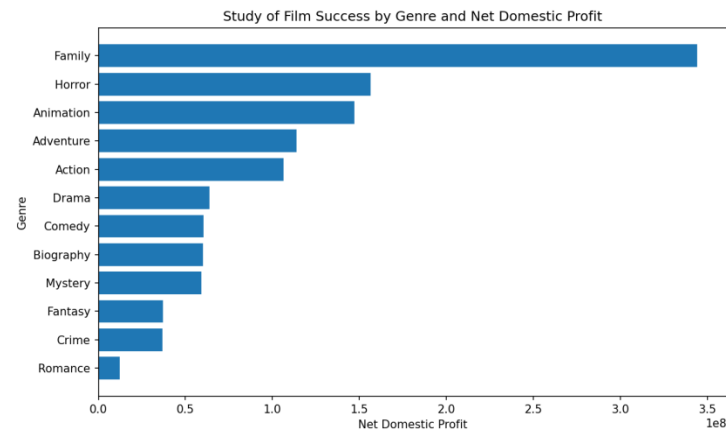
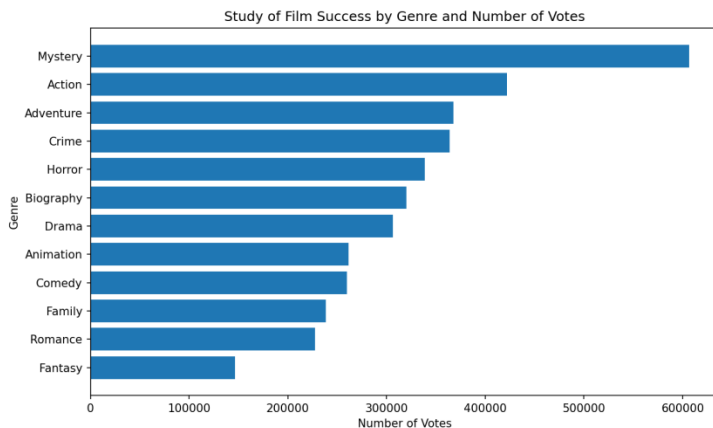
Methods

- Data preparation and cleaning
- Examination of variable independence
- Descriptive data analysis

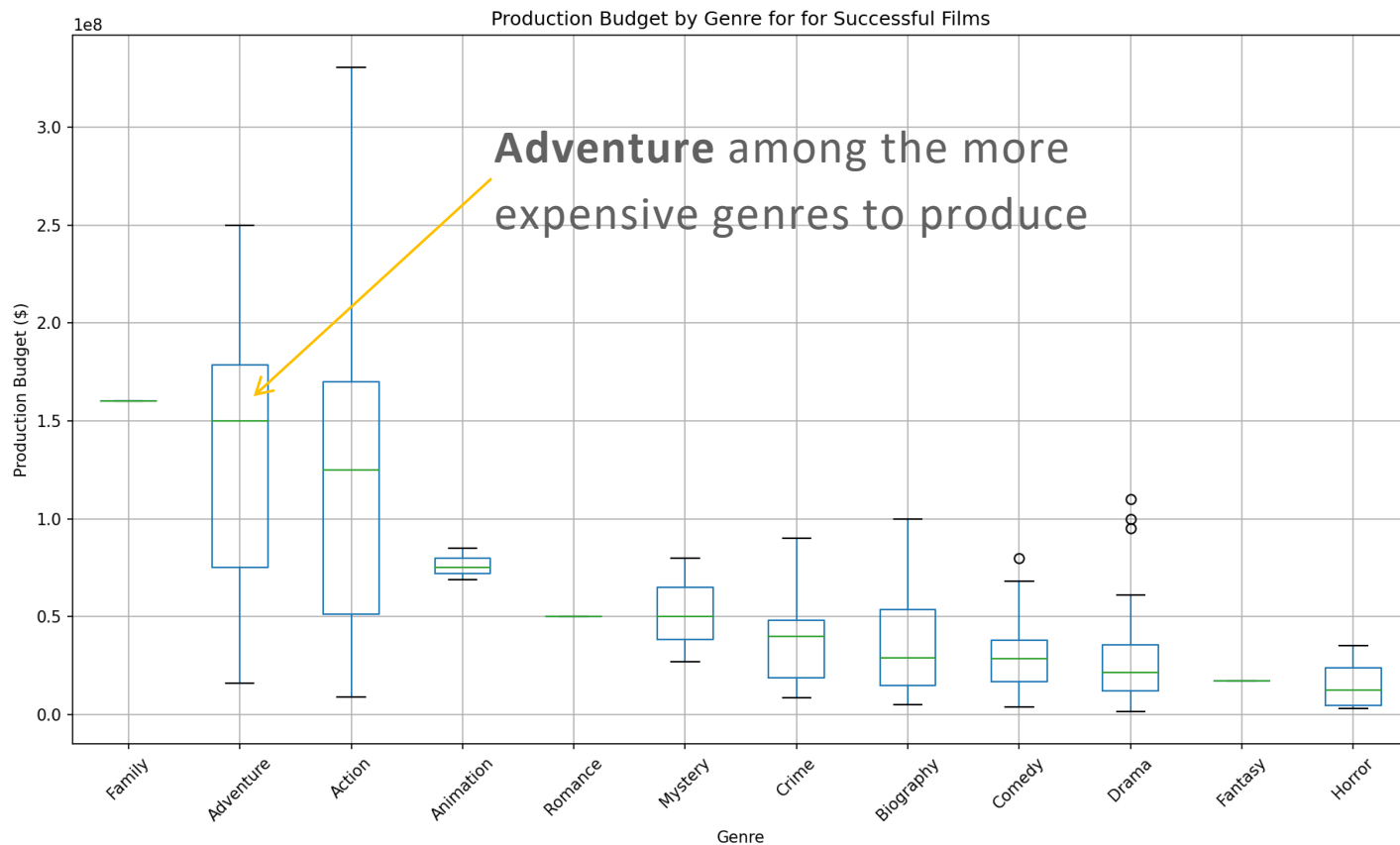


Results: Genre Seletion

Mystery but also **Crime**, and **Adventure** genres optimize two of the three success ratings.

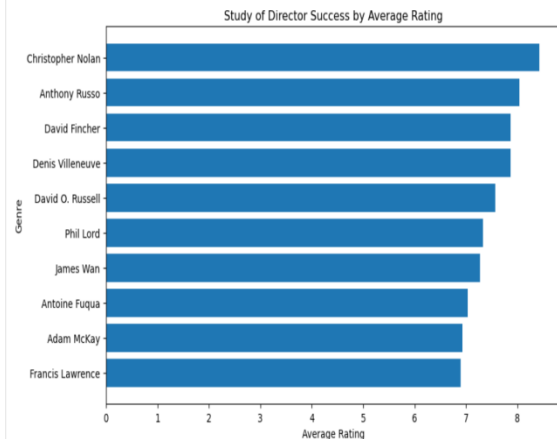
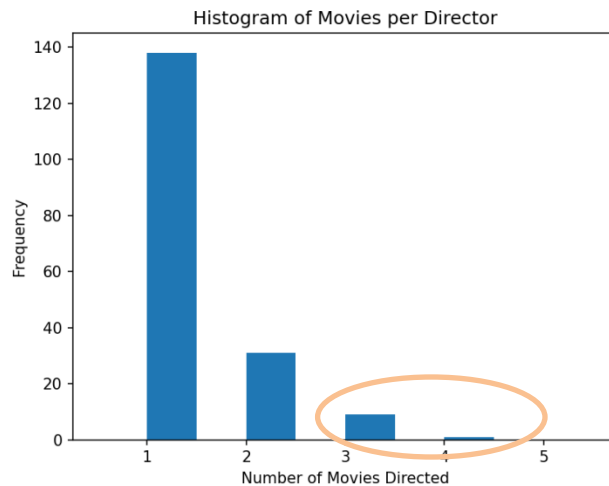
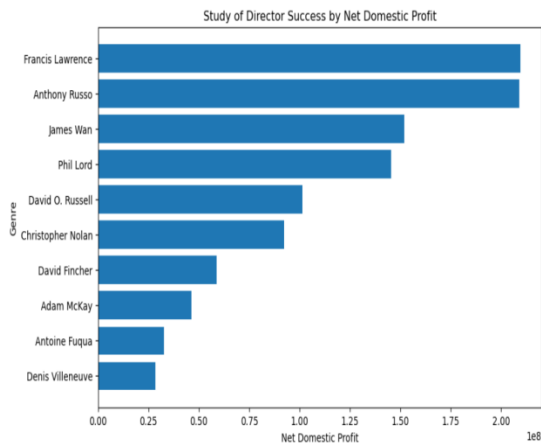
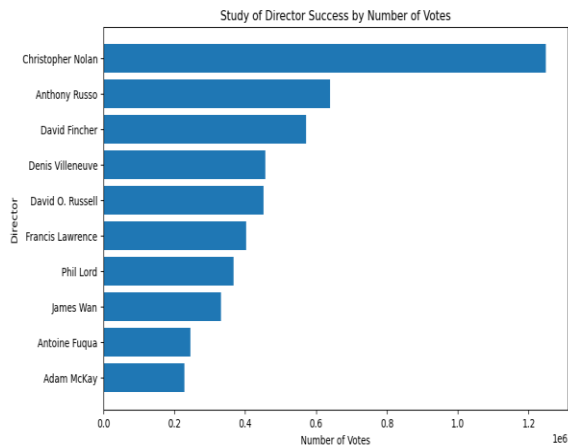


Results: Genre Selection



Results: Director Selection

Among the top directors associated with the Mystery, Crime, and Adventure genres are **Anthony Russo** along with **David Fincher** and **Christopher Nolan**.



Results: Director Diversity

David Fincher and **Christopher Nolan** are the more diversified among the most successful.

Anthony Russo

	movie	numvotes	avg_rating	net_profit	genres
58	Captain America: The Winter Soldier	666252	7.8	89746958	Action,Adventure,Sci-Fi
62	Captain America: Civil War	583507	7.8	158084349	Action,Adventure,Sci-Fi
2	Avengers: Infinity War	670926	8.5	378815482	Action,Adventure,Sci-Fi

David Fincher

	movie	numvotes	avg_rating	net_profit	genres
70	The Social Network	568578	7.7	56962694	Biography,Drama
54	The Girl with the Dragon Tattoo	387580	7.8	12515793	Crime,Drama,Mystery
24	Gone Girl	761592	8.1	106767189	Drama,Mystery,Thriller

Christopher Nolan

	movie	numvotes	avg_rating	net_profit	genres
1	Interstellar	1299334	8.6	23017894	Adventure,Drama,Sci-Fi
4	The Dark Knight Rises	1387769	8.4	173139099	Action,Thriller
0	Inception	1841066	8.8	132576195	Action,Adventure,Sci-Fi
47	Dunkirk	466580	7.9	40068280	Action,Drama,History

Conclusions

If Microsoft chooses to focus on the genre of film as the scoping condition:

- Focus on **genres associated with the most successful movies.**
- **Moderate financial risk** by avoiding high production costs.

If Microsoft prefers to hire the director to help define the scope of the original content project

- Hire the **director who can work across the greatest diversity of genres.**

Thank You!

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