



DAT-11

Final Project, Part 1: Lightning Talk

Ivan Wan



Potential Topic #1

Movie Myth:

Sequels are worse than originals!

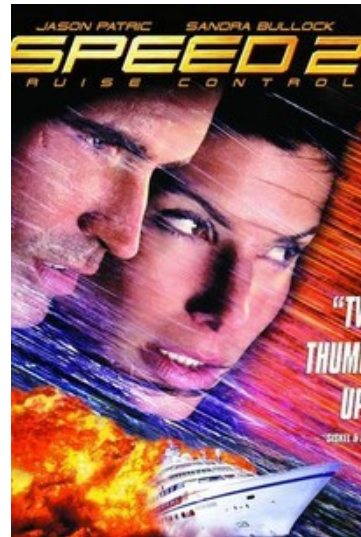
Is it true?

Potential Topic #1

While there are bad sequels...



33%
(Tomato Meter)



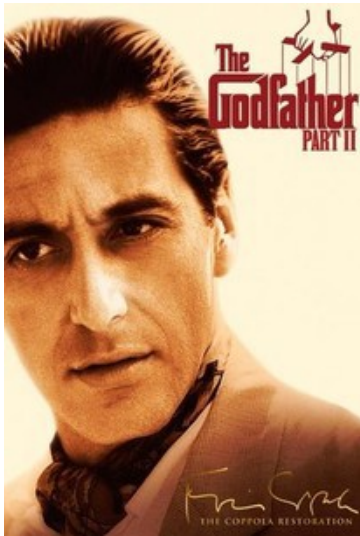
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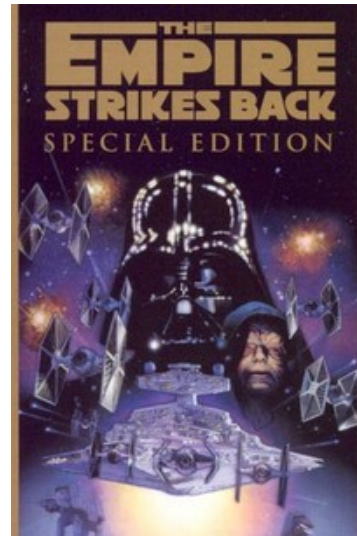
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Potential Topic #1

some sequels are pretty good:



97%
(Tomato Meter)



94%
(Tomato Meter)



93%
(Tomato Meter)



Potential Topic #1

So there are good sequels and bad sequels,
is the popular claim “*most sequels are worse than originals*” valid?



Potential Topic #1

Other ideas to explore:

- Are sequels good business bet?
(Bigger boxing office return compared to originals?)
- What about franchises with multiple episodes
(e.g. Harry Potter (8 films), Resident Evil (5 films))
Is there any pattern in box office and critic ratings?



Potential Topic #1

- Hypotheses:

Movies sequels are critically worse than the originals, but they are good for business.

- Potential Data Set:

IMDB, Rotten Tomatoes



Potential Topic #2

My friend is considering to start a restaurant, but he still hasn't decided if he wants to open a luxury restaurant or budget restaurant.

His gut feeling tells him it is a good time to start a luxury restaurant when the economy is booming, and it's better to start a budget restaurant when economy is falling.

Since he knows I am taking a Data Science course, why not use what I learn in class to confirm if his thought is true?



Potential Topic #2

- Hypotheses:

When economy is booming, it is a good time to open an expensive restaurant; when economy is falling, open a budget restaurant.

- Potential Data Set:

OpenRice, Yahoo Finance



Potential Topic #3

First, let me introduce some terms in stock investment before we continue...



Potential Topic #3

What is ETF?

An **exchange-traded fund (ETF)** is an investment fund traded on stock exchanges, much like stocks. An **ETF** holds assets such as stocks, commodities, or bonds. Most **ETFs** track an index, such as a stock index or bond index.

Potential Topic #3

Symbol	Name	Avg Volume	AUM
SPY	SPDR S&P 500 ETF	88,654,320	\$193,098,342.40
GDX	VanEck Vectors Gold Miners ETF	76,600,078	\$10,604,695.20

Symbol	ETF Name	Total Assets*	YTD	Avg Volume
VNQ	Vanguard REIT ETF	\$31,361,952.00	3.88%	4,764,579.0
XLE	Energy Select Sector SPDR Fund	\$15,172,507.20	17.20%	15,309,258.0
XLF	Financial Select Sector SPDR Fund	\$12,974,920.00	4.23%	50,525,144.0
XLK	Technology Select Sector SPDR Fund	\$12,695,746.40	12.25%	8,685,283.0
XLV	Health Care Select Sector SPDR Fund	\$11,479,186.40	-3.99%	9,312,305.0

Potential Topic #3

**MIT Fintech Course**

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By [Ryan Downie](#) | April 28, 2016 — 4:00 AM EDT

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Potential Topic #3

- Hypotheses:

If XLK (Technology sector) become stronger than XLU (Utilities Sector), it is a good time to enter stock market (or buy SPY ETF)

- Potential Data Set:

Yahoo Finance



THE END!