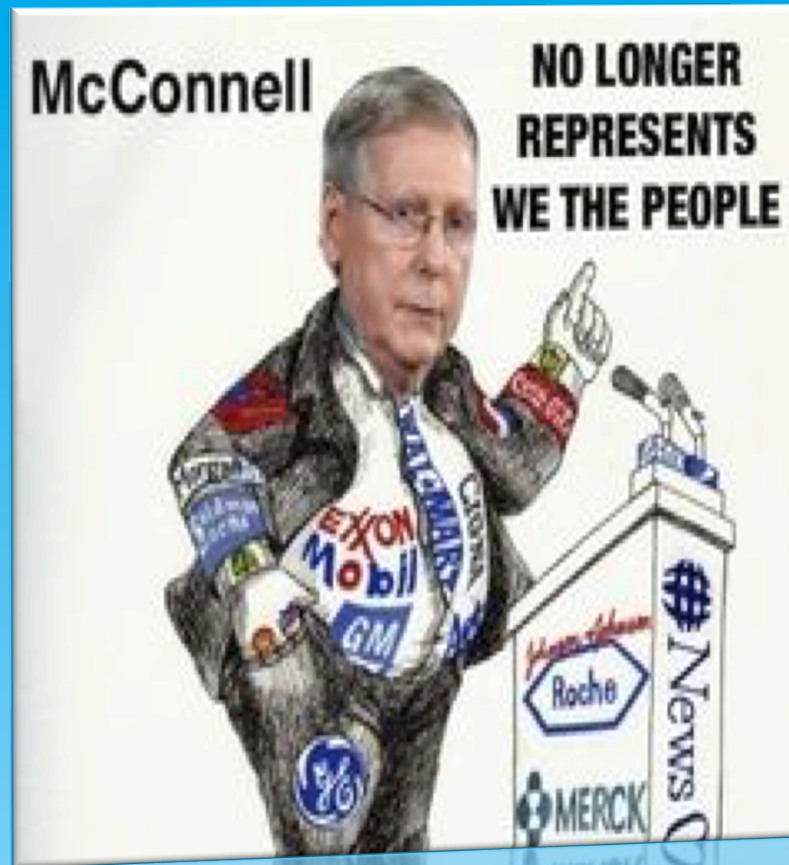


Money in Politics:

The relationship between contributions and congressional voting

By: Alex Hubbard





Project Overview:

Publications:

Pigs at the Trough: How Corporate Greed and Political Corruption Are Undermining

- Arianna Huffington

Who Wants to Buy a Politician?

– NYT

Research Question:

What is the true relationship between campaign contributions and voting results?

Can politicians be bought?

Data Set

GUN CONTROL	GUN RIGHTS	MISC DEFENSE	OIL & GAS	...	not voting	opensecrets_id	party	state	subjects_top_terms	total	vote_score	yea	yea_percent	yea_total
0	0	0	1750	...	0	N00000010	R	IN	Armed forces and national security	1	1	1	1	1
0	0	0	2550	...	0	N00000010	R	IN	Armed forces and national security	2	2	1	1	2

Collection:

- All bill from the 101st to the 114th congress - 1989 to present (subset for project, Armed Forces and Nation Security) (api: govtrack.us)
- How each official voted on a bill (api: govtrack.us)
- Contributions to each political official since 1981 (bulk export)
 - https://sunlightlabs.github.io/datacommons/bulk_data.html
- Not using all variables for this analysis. Plan to continue working with this data set.

Cleaning

Cleaned:

- A lot of cleaning was necessary
 - Bill id was used to find voting information
 - Voting information found officials from government id
 - Government id was used to find campaign id
 - Campaign id was used to find campaign contributions
 - Campaign funding industries were condense from 400+ to 115
 - Rolling tally of money collected, and voting history
- Cleaning:
 - Choose new contribution industries as features
 - Rolling tally (script finished after presentation was made)
 - ???

Exploration and Beyond

Exploration:

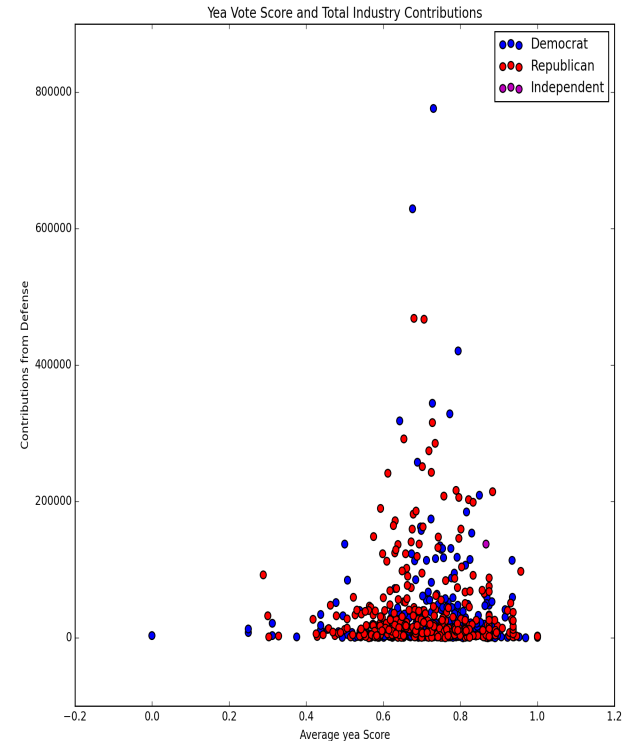
- Initial:
 - Used groupby function to get holistic view
 - Not provide much detail because aggregated analysis
- Future:
 - Analysis on rolling tally of data

Enough data?

- Yes, more than enough

Modeling:

- Explore Bayesian because of the probability
- Explore clustering to find groups
- Random Forest



Question?

