## RECOMMENDING LOCAL POLITICIANS



Samir Thanedar

### PRESIDENT BARACK OBAMA ON LOCAL VOTING



"...the elected officials who matter most in reforming police departments and the criminal justice system work at the state and local levels"

"Unfortunately, voter turnout in these local races is usually pitifully low, especially among young people — which makes no sense given the direct impact these offices have on social justice issues, not to mention the fact that who wins and who loses those seats is often determined by just a few thousand, or even a few hundred, votes."

### **DATASET**



### **BAY AREA**

108 politicians running for Congress, State Assembly or State Senate



### TWITTER PRESENCE

61% of the politicians had a "scrapable" profile



### **TWEETS**

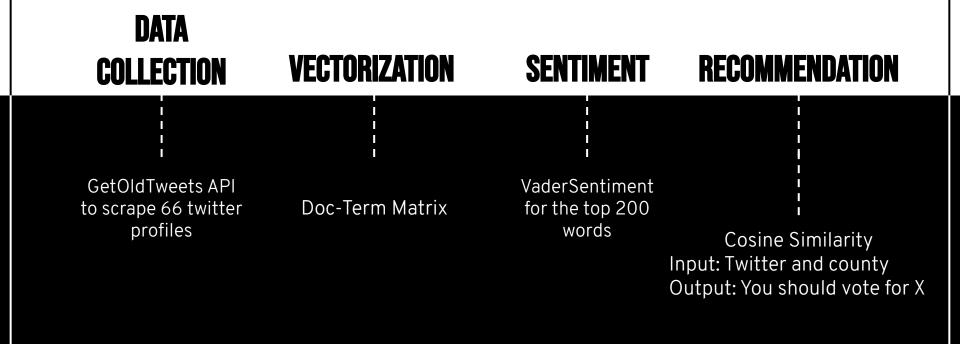
All tweets from 03/03/19 to 03/03/20



### % OF "GOOD" PROFILES

83% of Democrats **30% of Republicans** 

## **WORKFLOW**





### **U.S. CONGRESS DISTRICT 3 RACE**







John Garamendi Democrat Incumbent Tamika Hamilton Republican War Veteran Sean Feucht Republican Musician

### **NO SENTIMENT**

## U.S. CONGRESS DISTRICT 3

### **JOE BIDEN**

			Number of
Candidate Name	Party	Similarity	Tweets
John Garamendi	Democrat	0.58	927
Tamika Hamilton	Republican	0.52	1157
Sean Feucht	Republican	0.51	531

### **DONALD TRUMP**

			Number of
Candidate Name	Party	Similarity	Tweets
Tamika Hamilton	Republican	0.57	1157
Sean Feucht	Republican	0.53	531
John Garamendi	Democrat	0.50	927

### **ALEXANDRIA OCASIO CORTEZ**

			Number of
Candidate Name	Party	Similarity	Tweets
Tamika Hamilton	Republican	0.62	1157
Sean Feucht	Republican	0.57	531
John Garamendi	Democrat	0.57	927

# RESULTS WITH SENTIMENT U.S. CONGRESS DISTRICT 3

### **JOE BIDEN**

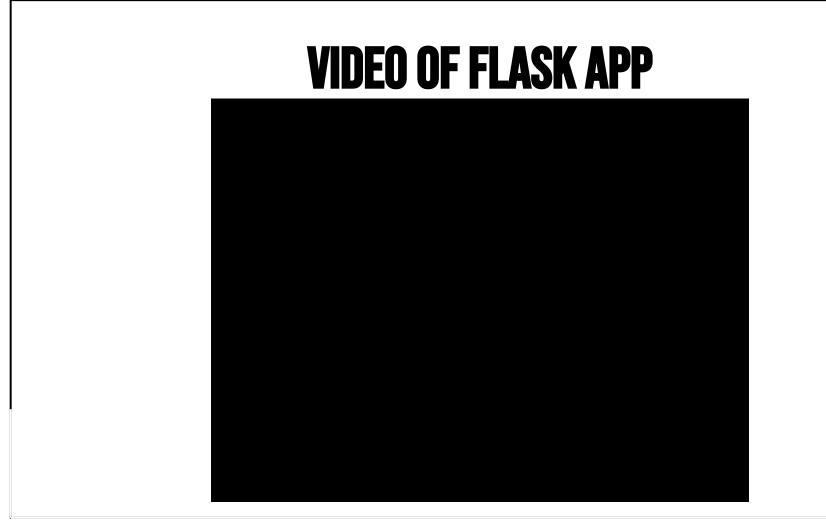
Candidate Name	Party	Similarity	Number of Tweets
John Garamendi	Democrat	0.46	927
Sean Feucht	Republican	0.37	531
Tamika Hamilton	Republican	0.26	1157

### **DONALD TRUMP**

Candidate Name	Party	Similarity	Number of Tweets
Sean Feucht	Republican	0.49	531
John Garamendi	Democrat	0.47	927
Tamika Hamilton	Republican	0.35	1157

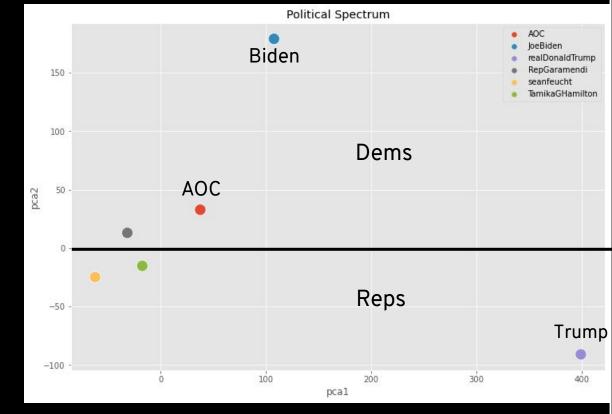
### **ALEXANDRIA OCASIO CORTEZ**

Candidate Name	Party	Similarity	Number of Tweets
John Garamendi	Democrat	0.52	927
Sean Feucht	Republican	0.50	531
Tamika Hamilton	Republican	0.38	1157



## **CONCLUSIONS**

## MODEL IS GOOD AT PICKING BETWEEN DEMOCRATS AND REPUBLICANS FOR MODERATE CANDIDATES



### **CONCLUSIONS**

## SENTIMENT HELPS WITH POLITICIANS ON THE FRINGE BUT HAS TROUBLE DIFFERENTIATING BETWEEN FAR LEFT AND FAR RIGHT

#### **ALEXANDRIA OCASIO CORTEZ**

Candidate Name	Party	Similarity	Number of Tweets
Deanna Lorraine	Republican	0.6	3445
Nancy Pelosi	Democrat	0.5	1322
Tom Gallagher	Democrat	0.41	400
John Dennis	Republican	0.38	1679
Shahid Buttar	Democrat	0.29	4476
Agatha Bacelar	Democrat	-	-

## **CONCLUSIONS**

### MODEL RECOMMENDS DEMOCRATS MORE

- THERE ARE MORE DEM CANDIDATES IN THE BAY AREA
- DEMOCRATS IN THE BAY AREA TENDED TO HAVE MORE TWEETS THAN REPUBLICANS

- Include candidates with little or no Twitter presence
- Word Embeddings could help determine the difference between far left and far right
- Make sure not to be an echo chamber

## FUTURE WORK

## THANKS

Any questions?

CREDITS: This presentation template was created by **Slidesgo**, including icons by **Flaticon**, and infographics & images by **Freepik**.