Twitter Takes On The 2020 United States Election



Donald Trump
With Mike Pence
Republican Party



Joe Biden
With Kamala Harris
Democratic Party

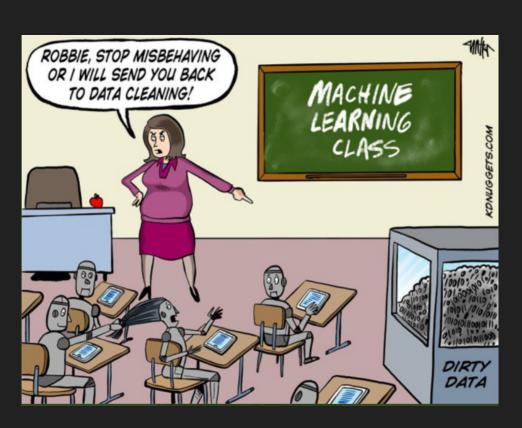
Presented by Group 14: Muhammad Waleed Akram, Shubham Prakash, Nishant Jadhav, Hrutwi Kakadia, Christopher Garrett, Taniya Chauhan, Kirti Menghani

Introduction

- What we did?
- Why it matters?
- How we did it?
- The Story being told



Data Cleaning & Processing



- Removed the tweets with 0 likes- Helped us reduce the size of the data with no impact on our analysis
- Bifurcated Datetime column
- Imputed Null States with States generated from the Latitude and Longitude of the tweeters

Data Cleaning & Processing(Continued)

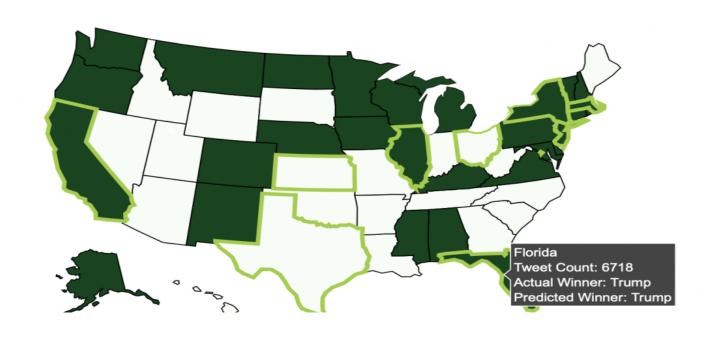


- 1. Removing Stop Words
 - Keep "not" for sentiment analysis
 - Words like and, in, an, to
- 2. Lemmatization
 - o runs, running, ran are all forms of the word run.
- 3. Remove Junk Characters
 - URLs, HTTPs, @Usernames, extra spaces
- 4. Expanding Contractions
 - shouldn't -> should not

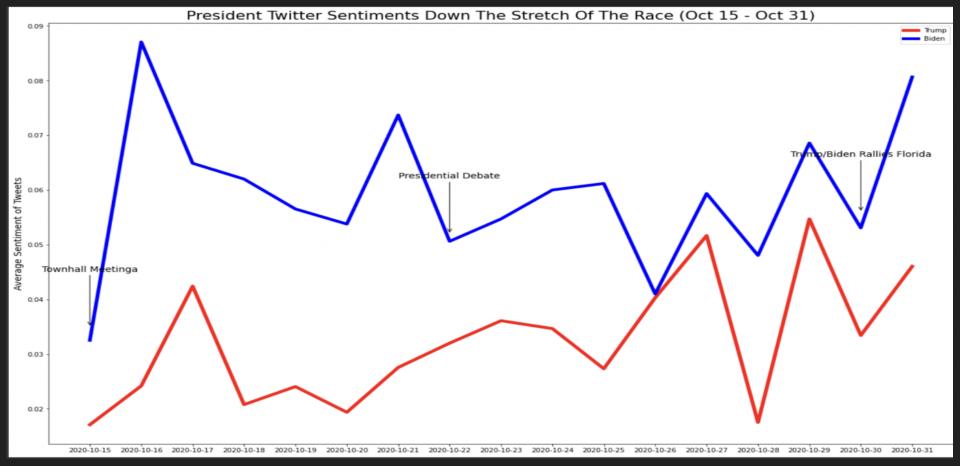
an processed	clean	tweet
ion censorship hunterbiden biden bidenemails bidenemail corruption	censorship nunterpiden biden bidenemalis bidenemali corruption	#censorship #HunterBiden #Biden #BidenEmails #BidenEmail #Corruption https://t.co/C6cIrtshQI
ter share link nypost article hunter biden popped nypost	allowing people to share the link to a nypost article about hunter	In an effort to find the truth about allegations that @Twitter isn't allowing people to share the link to a @nypost article about Hunter Biden, this is what popped up #NYPost #HunterBiden #Biden #Election2020 https://t.co/yYImdZrOKz
nly sure nobody see negative story biden negative story ine trump twittercensorship biden ukraine hunterbiden	election making sure nobody sees a negative story about biden only	Twitter is doing everything they can to help Democrats win the election. Making sure nobody sees a negative story about Biden. Only Negative stories on Trump. #TwitterCensorship #Biden #Ukraine #HunterBiden https://t.co/dbLKQBMvRU

Twitter Sentiments correctly predicted the election results for 7 out 10 top tweeting states

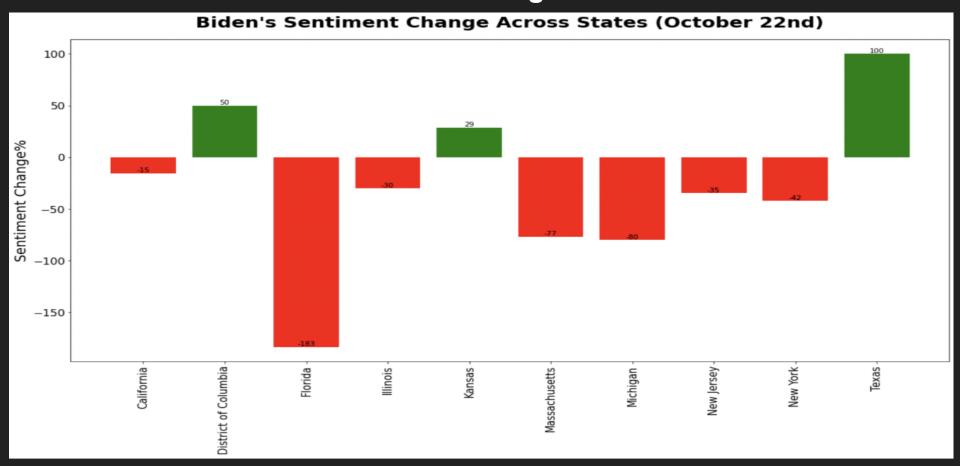
2020 U.S. Election Results vs. Twitter Prediction



Major Events During The Key Run Of The Election Show Big Impact On The Candidate's Twitter Sentiment



Drop in the sentiment in Florida majorly contributed to the fall in sentiment towards Biden during Presidential Elections



Conclusion

- The insight using twitter to track public sentiment can be extremely useful to many industries including campaign managers, lobbyists, Fortune 500 Companies, tax professionals, and other politicians as well.
- Using similar models stakeholders can track sentiment around specific events whether its helping correlate public opinion on a certain stock, a specific bill in congress, political movements, the possibilities are endless.



Questions?