

# Background



#### Summary of the Trump Executive order entry Ban in Table

Visa Type	Location	US Visa Stamp, Status	Impact - Dec 31, 2020
H1B Visa	Outside US	No H1B Stamp	Cannot enter US
H1B Visa	Outside US	Has Valid H1B Stamp	No impact
H1B Visa	Inside US	Valid I-797, I-94	No impact
H4 Visa	Outside US	No H4 Stamp	Cannot enter US
H4 Visa	Outside US	Has Valid H4 Stamp	No impact
H4 Visa	Inside US	Valid I-797, I-94	No impact
H4 EAD	Inside US	Valid EAD	No impact
L1, L2 Visa	Outside US	No L1, L2 Stamp	Cannot enter US
L1, L2 Visa	Outside US	Has Valid L1, L2 Stamp	No impact
L1, L2 Visa	Inside US	Valid I-797, I-94	No impact
L2 EAD	Inside US	Valid EAD	No impact
H2B Visa	Outside US	No H2B Stamp	Cannot enter US
H2B Visa	Outside US	Has Valid H2B Stamp	No impact
H2B Visa	Inside US	Valid approval, I-94	No impact
F1, F2 Visa	Anywhere	Does not matter	No impact
OPT, STEM OPT	Anywhere	Does not matter	No impact
J1 Visa	Outside US	No J1 Stamp	Cannot enter US
J1 Visa	Outside US	Valid J1 Stamp	No impact
J1 Visa	Inside US	Valid status documents	No impact
B1, B2	Anywhere	Does not matter	No impact
TN,O1, E3	Anywhere	Does not matter	No Impact



### Questions:

- 1-What do people think about proclamation June22?
- 2- What aspects get the most negative mentions?
- 3- What aspects get the most positive mentions?

Answers: #1

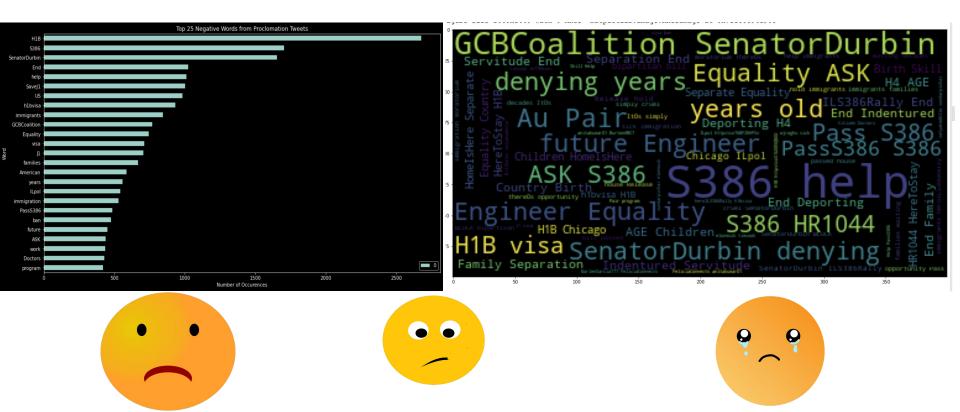
NLP Sentiment Analysis answer those Ouestions.

1- Some people agree: positive sentiments. Some People disagree: Negative Sentiment. Some people just share info with no feelings :

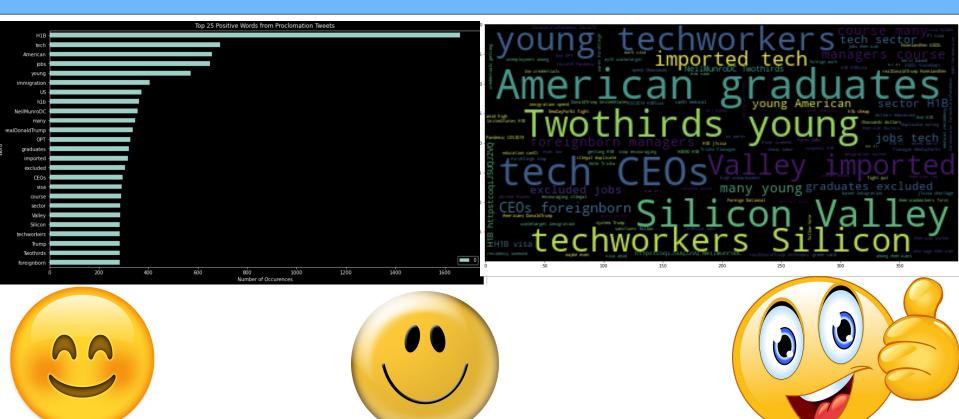
Neutral Sentiment



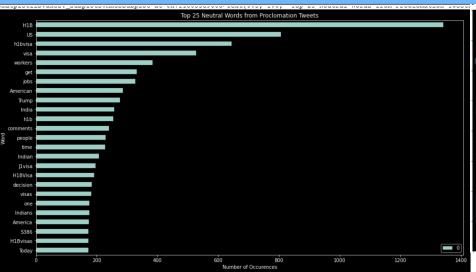
2. What aspects get the most negative mentions? H1B,S386,SenatorDurbin,End,help,SaveJ1,US,h1bvisa,immigrants,GCBCoalition,Equality,visa,J1,families,American,years,immigration,PassS386,ban,future.

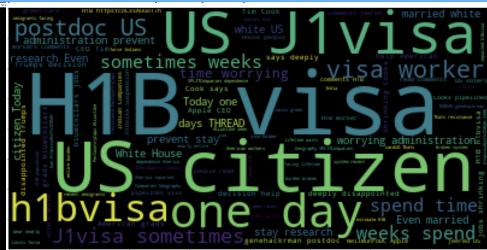


3. What aspects get the most positive mentions? tech, American, jobs, young, immigration, real Donald Trump, OPT, graduates, imported, excluded, CEOs, Valley, Silicon, Trump, techworkers.



### Neutrals





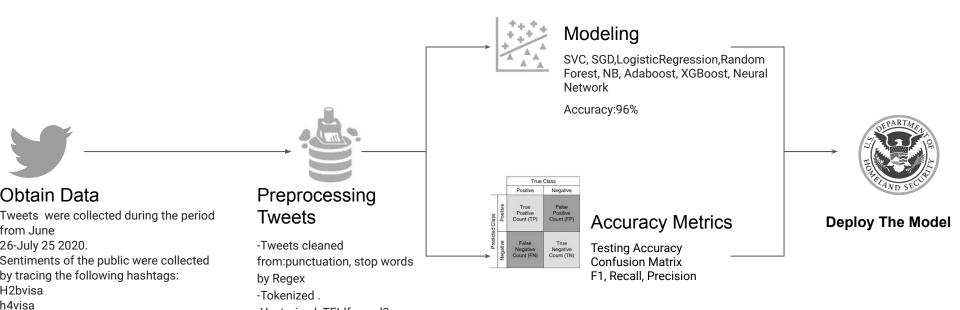
#### Methodology

Lvisa

J1 Visa

h1bvisa workvisa

Tweets were split 60% train and 40% test

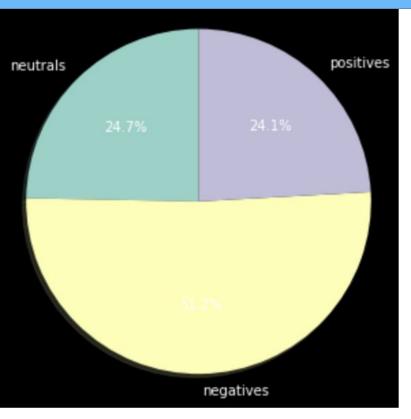


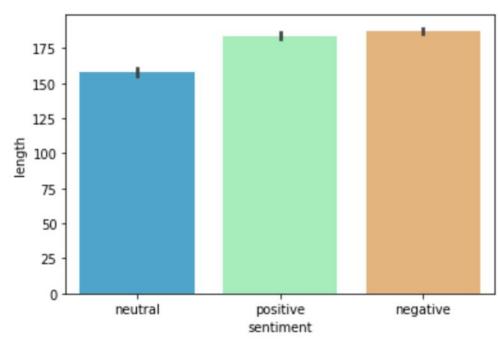
-Vectorized:TFldf, word2vec,

Labels were Encoded

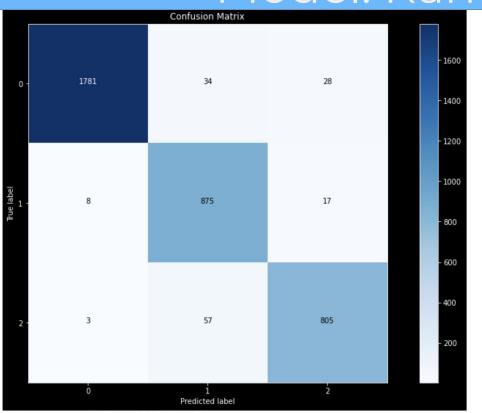
Doc 2vec

## Following EDA





# Accuracy Measurements:96% Model: RandomForest





test accuracy: 0.9592572062084257

#### Recommendation

#### Based on the public reaction we see that we should

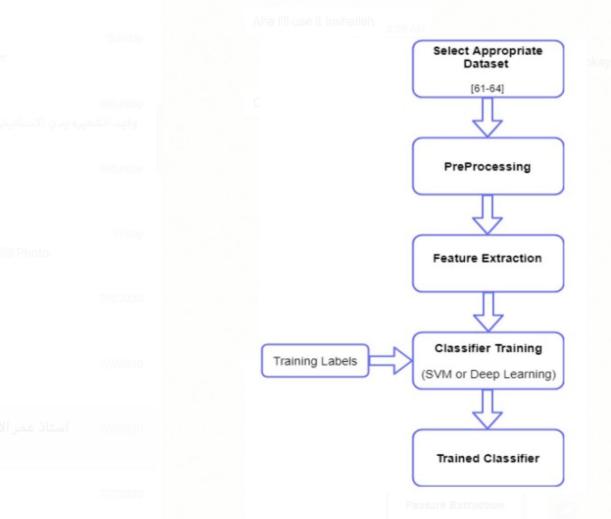
- 1. Consider the side effect suspension exchange visitor in job market and income, especially the au pair programs, camps and j student tuition
- 2. Consider the income of Tax collection from Work visa immigrants for the fiscal of year 2021.
- 3. Investigate the ratio of immigrants being hired to americans being hired by big tech companies and set more standards for Americans first..
- 4. Diversity needs to be considered in employment.
- 5. Consider the tax income from all immigration programs as kind of standard for increasing or decreasing immigration window particularly during stagnating time of covid 19.
- 6. Consider the adverse factors such as the reduction from decreasing travel, exchange programs, and increase remote overseas employment particularly in tech jobs.
- 7. Fill the demands from American physicians first, then cover the shortage from international immigrants,OP1 F1/J1 students.
- 8. Consider the income that comes from tuition paid by F1, and J1 student visa as a source of income and in the same time prioritize the employment opportunities for Americans.
- 9. Consider the humanitarian factors of family separation with regards H4 visa suspension, by removing visa bar but allowing suspension of employment authorization during Covid 19.
- 10. Use my model for sentiment analysis of any immigration ban in the future.

### Future Work

- Increasing my dataset and combining more immigration sentiments that include all previous immigration bans.
- Try more nlp pretrained models as: ULMFiT,Transformer,Google's BERT.
- Try different Word Embeddings as: ELMo and Flairin and join them with pretrained models.
- Do the same sentiment analysis on facebook.







okay i will talk you later, im too tired i will go to bed now, bye

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