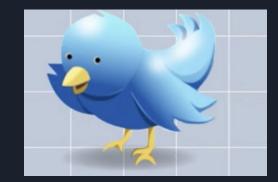
Twitter Sentiment Analysis on

Proclamation Suspending Entry of Aliens Who Present a Risk to the U.S. Labor Market Following the Coronavirus Outbreak

Capstone Project By: Khulood Nasher



Questions:

What do people think about proclamation June22? What aspects get the most negative mentions? What aspects get the most positive mentions?

Background

	Inside US	Valid EAD	No impact	
isa	Outside US	No L1, L2 Stamp	Cannot enter US	
lsa	Outside US	Has Valid L1, L2 Stamp	No impact	
Īsa	Inside US	Valid I-797, I-94	No impact	
	Inside US	Valid EAD	No impact	
ia	Outside US	No H2B Stamp	Cannot enter US	
а	Outside US	Has Valid H2B Stamp	No impact	
a	Inside US	Valid approval, I-94	No impact	
Tsa Tsa	Anywhere	Does not matter	No impact	
EM OPT	Anywhere	Does not matter	No impact	
	Outside US	No J1 Stamp	Cannot enter US	
	Outside US	Valid J1 Stamp	No impact	
	Inside US	Valid status documents	No impact	
	Anywhere	Does not matter	No impact	
E3	Anywhere	Does not matter	No Impact	

Identify Sentiment

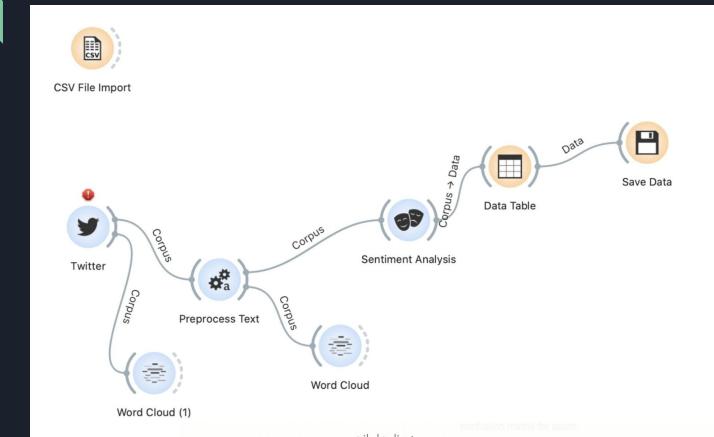
Natural Language Processing (NLP)

- □Test various models
- □Adjust data for imbalance
- □Optimize model parameters

Unbiased Dataset

To get unbiased dataset tweets were collected from June 26-July 25 2020

Methodology



Sentiment Analysis Results

Important features in student F1 and J1 visa as follows:

Important Features in Work visas as follows:

Following Sentiment Analysis Results

Negative for Ji visa was the aupair in j1visa Negative for F1 was Negative for WorK visa

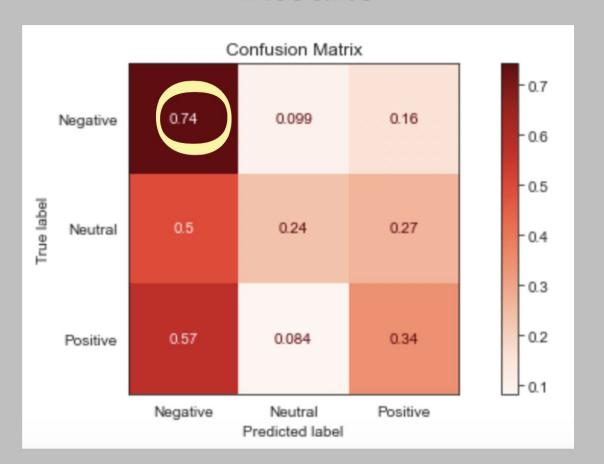
Positive for Ji visa was the aupair in j1visa Positive for F1 was Positive for WorK visa

Following Results

- ■Random Forest Classifier
- □Under sampling

- □Recall Metric .80
- □Negative reviews identified out of all reviews

Results



Examples



Negative Sentiment Words



Positive Sentiment Words

Example Tweets

Example Tweets

- ".@wesley83 I have a 3G iPhone. After 3 hrs tweeting at #RISE_Austin, it was dead! I need to upgrade. Plugin stations at #SXSW."
- "@sxsw I hope this year's festival isn't as crashy as this year's iPhone app. #sxsw"
- "@mention False Alarm: Google Circles Not Coming Now QOand Probably Not Ever? {link} #Google #Circles #Social #SXSW"

Recommendations

Recommendations

"... I have a 3G iPhone. After 3 hrs tweeting at #RISE Austin, it was dead! I need to upgrade..."

- Respond to customers addressing feedback
 - "We are sorry about your <u>experience</u>, iPhones need battery replacement every couple of years."
- Share sentiment with product managers
 - Improve battery active time.
- Promote campaign with improvements made
 - Social Media advertisements of longer lasting battery.

Recommendation

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.

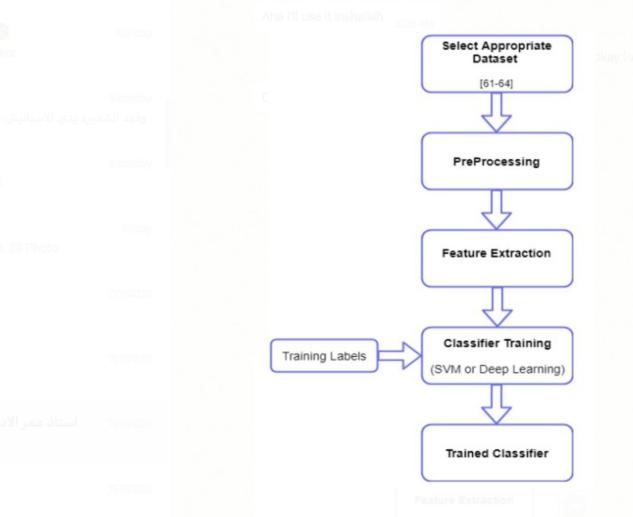
Thank You

I welcome any questions you may have!









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



لل جدول زمني لشغلي بحيث ارتب نفسي وما اتاخر



S) You deleted this messag