Thank you!



Any questions?

In Sarcasm, Everything is 'umog əpisdn







Action Item:

Document







Sarcastic? Flip! Sincere? Keep!

Results

Model	Max ngrams	All lowercase	News included	Accuracy score	F1 score
Naïve Bayes	1	no	yes	0.733	0.725
SVM	1	no	yes	0.707	0.706
SVM	5	no	yes	0.701	0.7
SVM	3	yes	yes	0.701	0.698
Naïve Bayes	3	yes	yes	0.698	0.698
SVM	3	no	yes	0.693	0.692
Naïve Bayes	3	no	yes	0.684	0.684
Naïve Bayes	5	no	yes	0.676	0.677
Naïve Bayes	3	no	no	0.669	0.672
SVM	1	no	no	0.669	0.672

Feature Importance

Most sarcastic

- 1. thats
- 2. anita
- 3. having
- 4. said
- 5. sure

Most sincere

- 1. Covid
- 2. breaking
- 3. business
- 4. If
- 5. More

Word Clouds

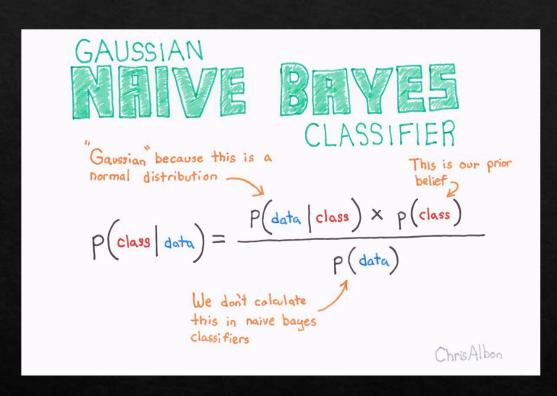




Sarcastic

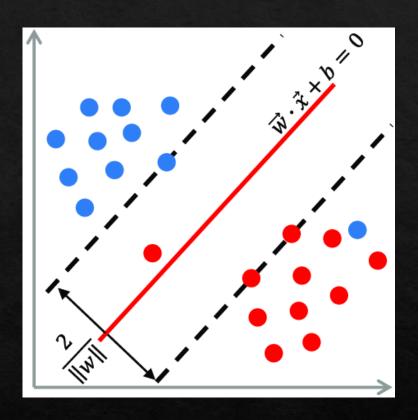
Sincere

Models Used



Naïve Bayes

Accuracy: 0.73

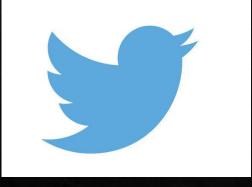


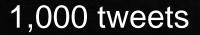
SVM

Accuracy: 0.71

Data Sources



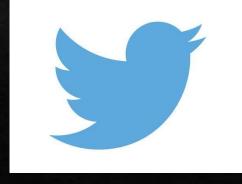






2,000 comments





1,000 tweets #news



1,000 tweets #sarcastic

Why Are We Doing This?



A Little Recap From 11/08

Just a Normal Sentiment Analysis





Now, Let's Play!



Sarcastic



OR

Sincere

Document 1



Model says...



Model says... Sarcastic



Model says...

Sarcastic

Ground truth...



Model says...

Sarcastic

Ground truth...

Sarcastic

Document 2



Model says...



Model says... Sincere



Model says...
Sincere

Ground truth...



Model says...
Sincere

Ground truth...
Sincere

Document 3



Model says...



Model says... Sincere



Model says...
Sincere

Ground truth...



Model says...
Sincere

Ground truth...

Sarcastic

