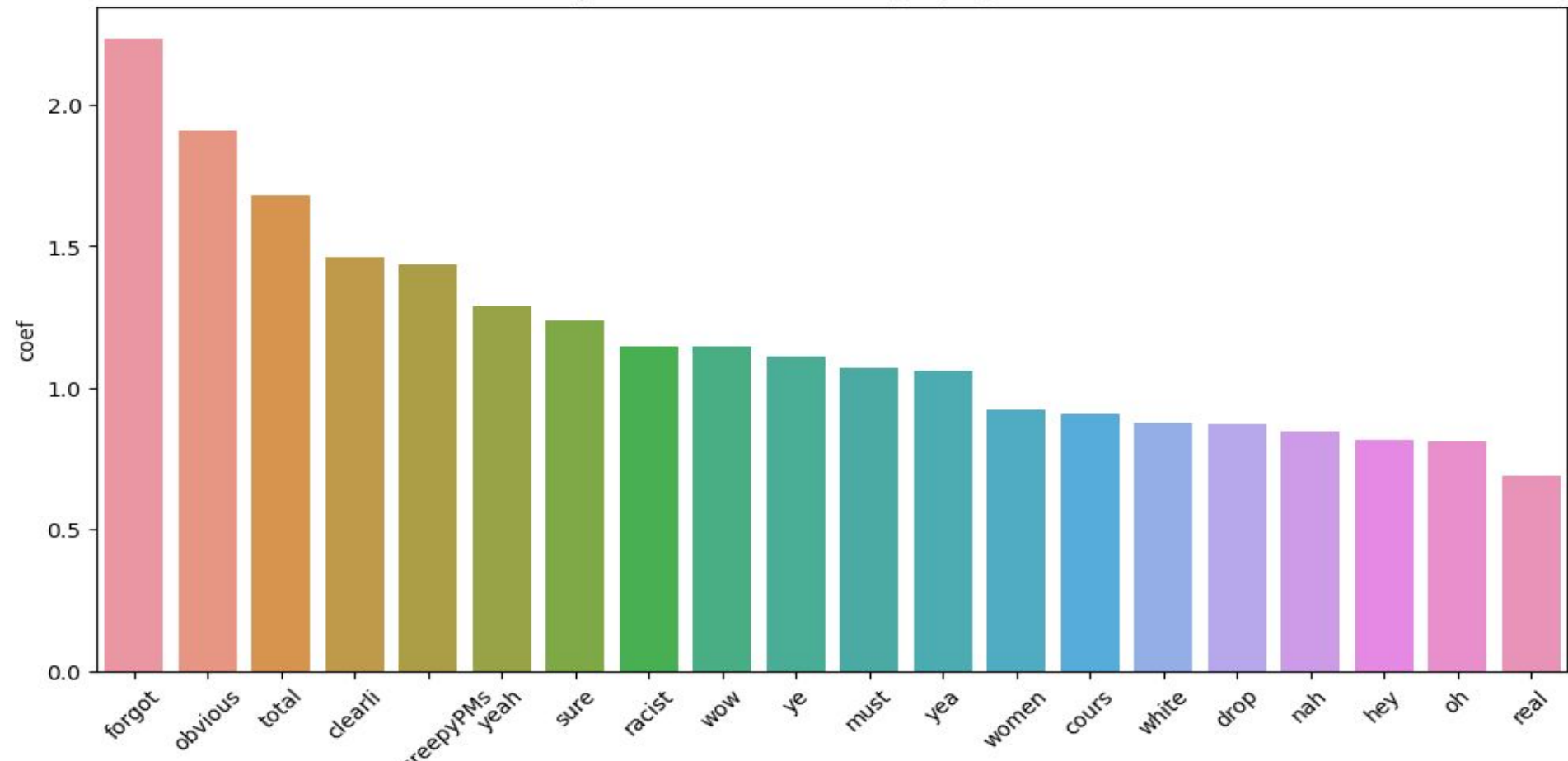# **Sprint 2** - Sarcasm Detection and Response Generator
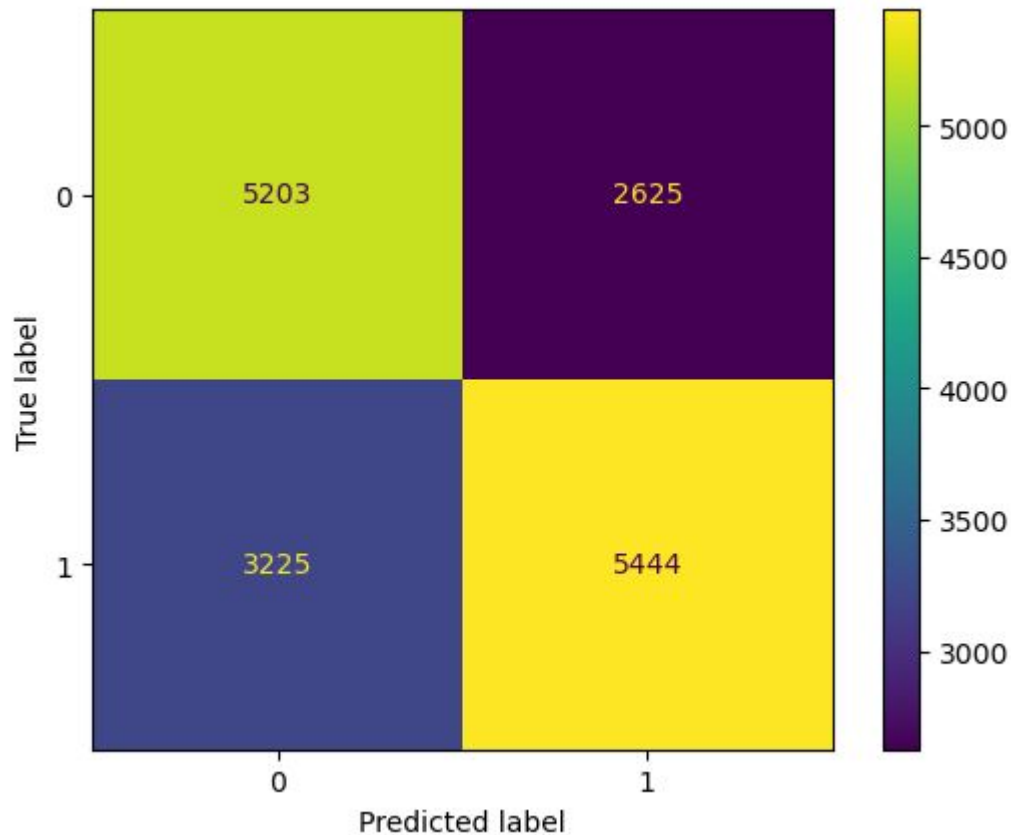
By: Loki Keeler

Initial NLP

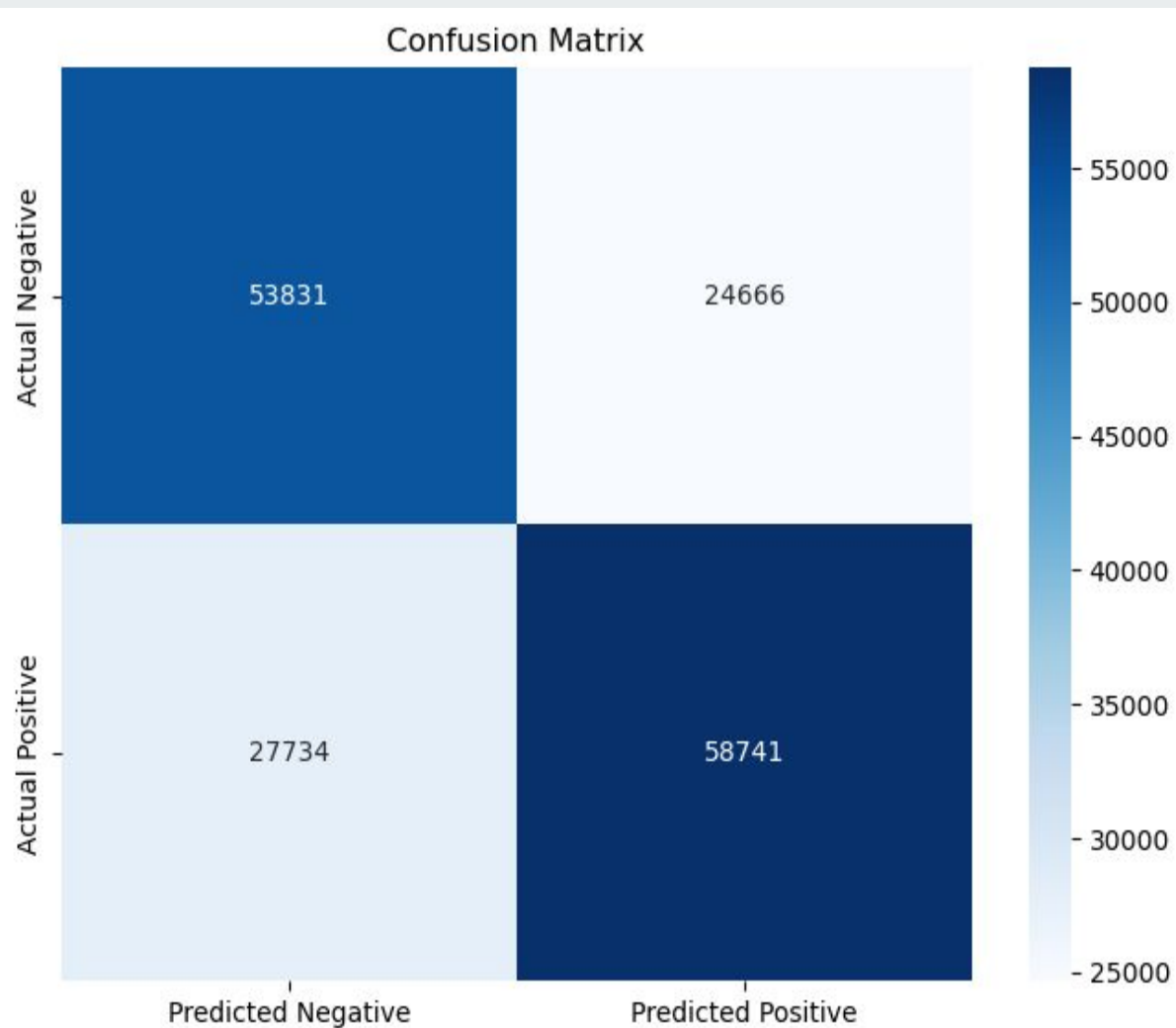

Top 20 Comment words signifying sarcasm

With Countvectorizer

- Logistic Regression

- Accuracy 64.5%

- Precision 67.4%

- Recall 62.7%

With TF-IDF

- Logistic Regression

- Accuracy 68.2%

- Precision 70.4%

- Recall 68.0%

Confusion Matrix

	Predicted Negative	Predicted Positive
Actual Negative	53831	24666
Actual Positive	27734	58741

Next Steps

- Improve Decision Tree Classifier

- Random Forests

- Sarcasm response generator