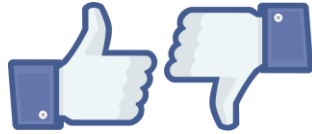
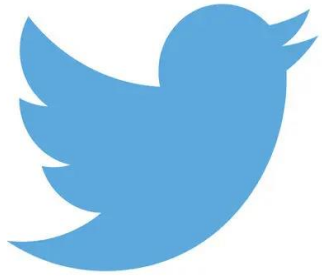


CS226 Project:

Fast Food Brand Appeal Using Twitter and Sentiment Analysis

Anish Sekar, Brandon Herrera, Justin Schopick, Yogesh Singh

The Goal



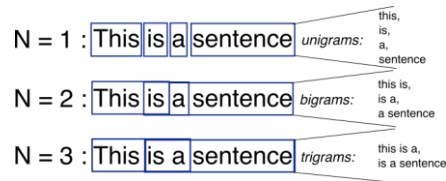
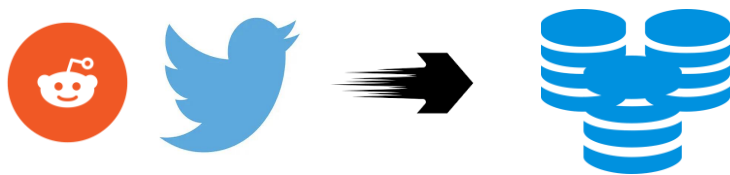
Motivation

- ~ 4 Terabytes of data generated daily
- Unmoderated data, true opinions
- Hashtags and keyword based filtering makes it easier to separate required data
- Free public API
- Most popular microblogging platform



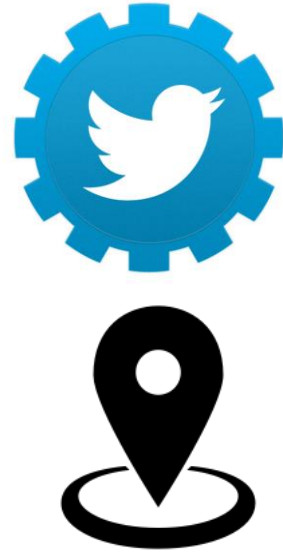
Sentiment/Sarcasm model training

- To predict the sentiment of the tweets we trained a model from an existing dataset called Sentiment140.
- The dataset contains 1.6 million tweets that are rated positive or negative
- Sarcasm prediction is trained on a reddit dataset
- We used existing Spark machine learning libraries in Python to train the model.
- We used N-grams and term frequency inverse document frequency (tf-idf) for features.
- The tokenizer removed punctuation and other symbols.



Datasets – Sentiment Prediction

- We gathered around 60GB of tweets over a span of 2 weeks
- We used different combinations of keyword filters
- We use geolocation filters to restrict tweets originating from the united states



Challenges

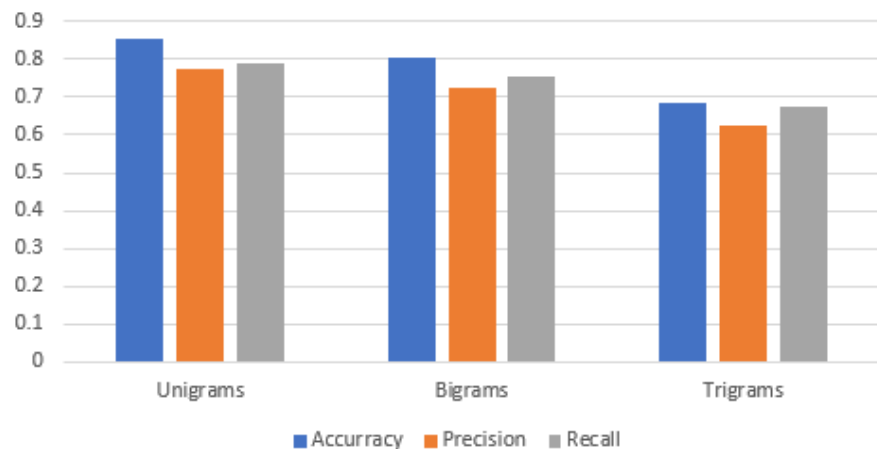


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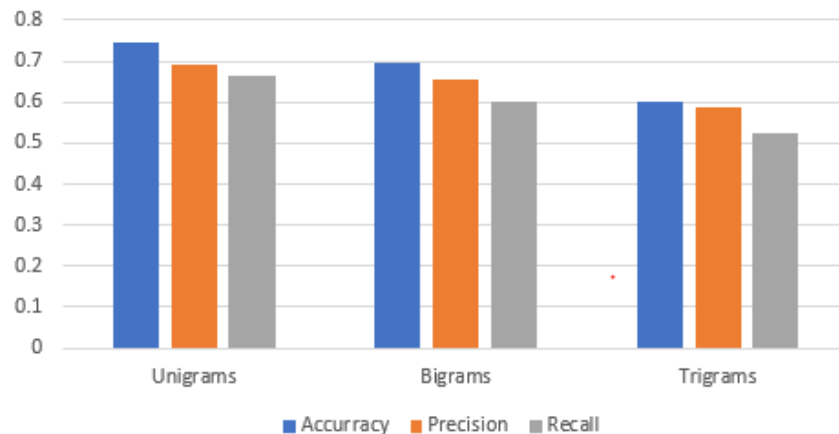


Datasets

Sentiment Training Model



Sarcasm Training Model



Visualization

