Sentiment Analysis with NLP

Overview:

- Conduct market research for Prestige analytics
- Classify sentiment on tweets
- Help clients improve products/ marketing
- Use natural language processing techniques.

Data Understanding:

- Data from Data.World
- Over 9,000 Tweets
- 3 Columns Tweet, Brand, Emotion

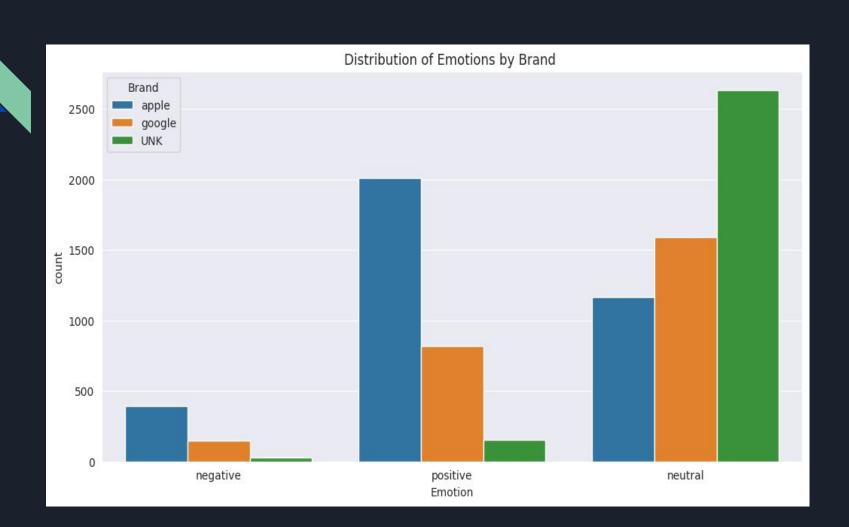


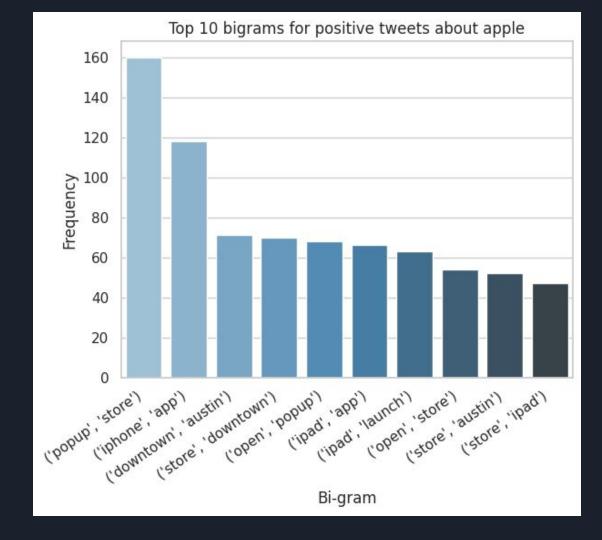
Business Problem:

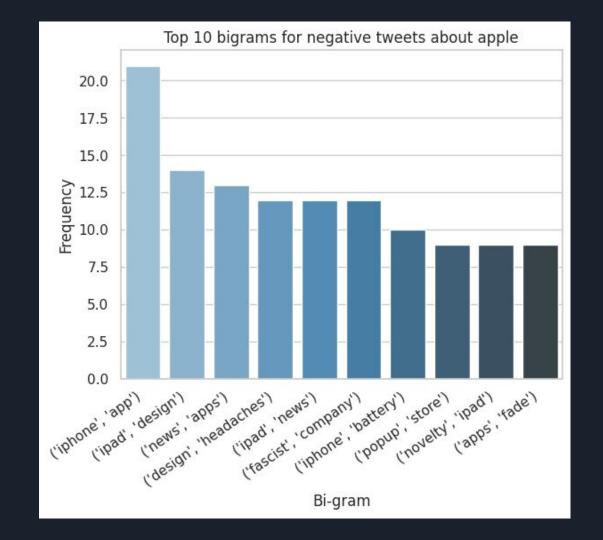
• Is this Tweet positive neutral or negative?

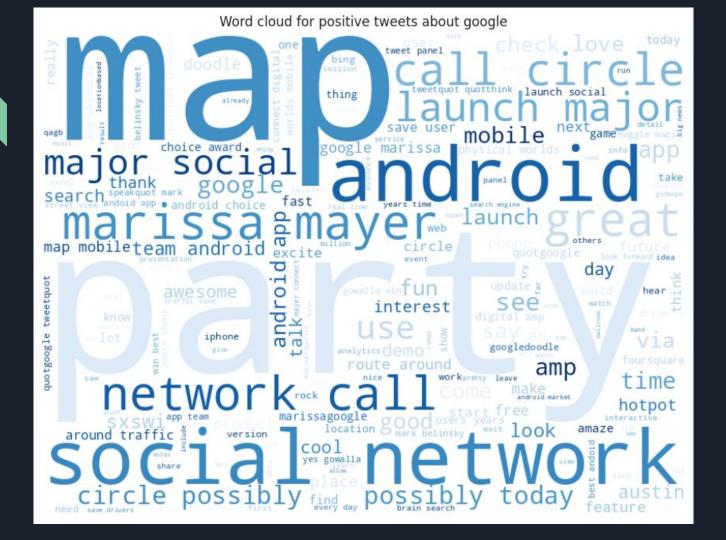
Multiclass classification

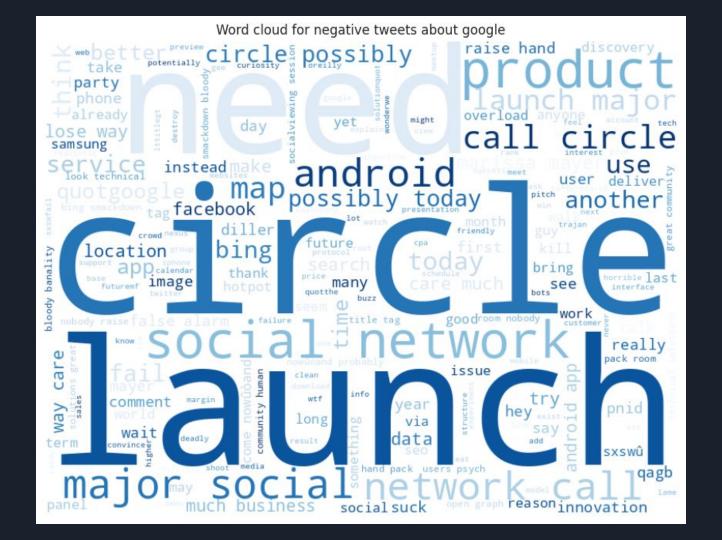
Focus on improving accuracy of model



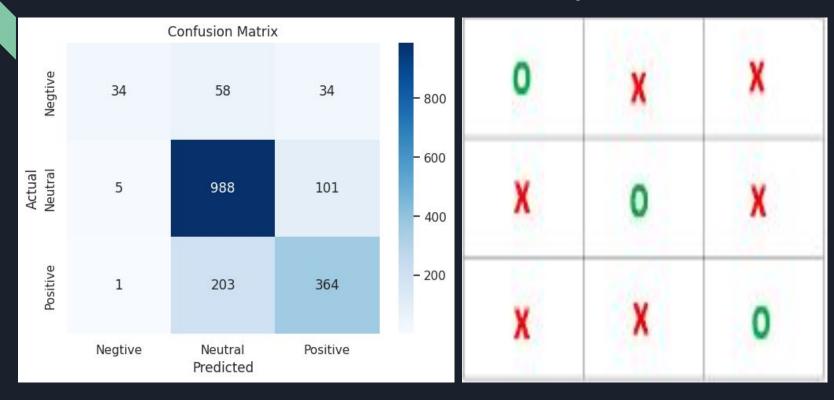








Results: Best Model 78% Accuracy



Recommendations: Apple

product improvement:iphone battery, ipad design

Marketing:
more pop-ups, promote app store

Recommendations: Google

product improvement:

Google circle (social network)

Marketing:

promote google maps, more parties

Whats next?

- Collect more Tweets
- Minimize neutral Tweets
- Use twitter api for Tweet performance
- Use more complex models

Thank You!

- Full analysis below:
- https://github.com/inagib21/TweetSentiment