

OUTLINE



BUSINESS UNDERSTANDING



DATA UNDERSTANDING



DATA PREPARATION



RESULTS



CONCLUSION



LIMITATIONS & NEXT STEPS

BUSINESS UNDERSTANDING

- Gallup, a global analytics and advice firm, plans to conduct a large-scale survey regarding public sentiment towards the political parties in the United States.
- In order to achieve this, they require a model that can rate the sentiment of a Tweet based on its content.
- Once training of the model has been completed, it is to be deployed as a sentiment analysis tool for that receives data from the Twitter API.

DATA UNDERSTANDING

- ❖ Dataset is a collection of 1,600,000 tweets, all of which are labelled with a corresponding sentiment.
- ❖ Dataset was relabeled using VADER Sentiment Analyzer
 - Improved accuracy of labels
 - ❖ Addition of NEUTRAL sentiment label

DATA PREPARATION

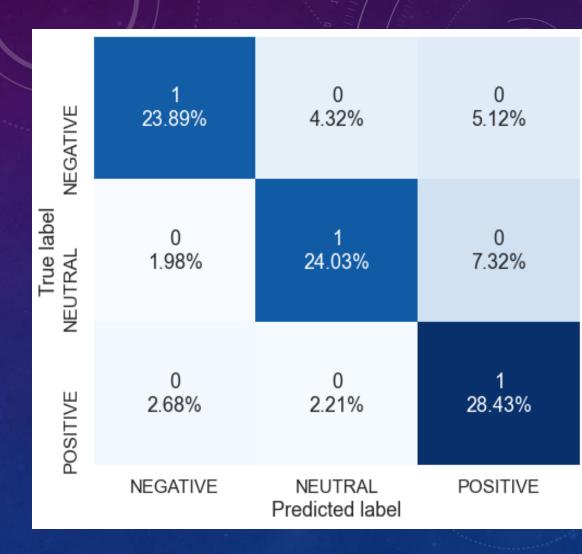
Data was processed extensively

- Removal of twitter handles
- Removal of web addresses
- Removal of special characters, numbers, & accented characters
- Removal of commonly used words
- Lemmatization

RESULTS



- *Accuracy = %78*
- Tends to predict POSITIVE sentiment
- Generalizes well



LIMITATIONS & NEXT STEPS

- Fine-Grained Sentiment Analysis
- Emotion Detection
- Identification of Domain-Specific Tweets
- Utilization of Emoticons

THANK YOU

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