## Predicting Myers-Briggs Type Based on Tweets

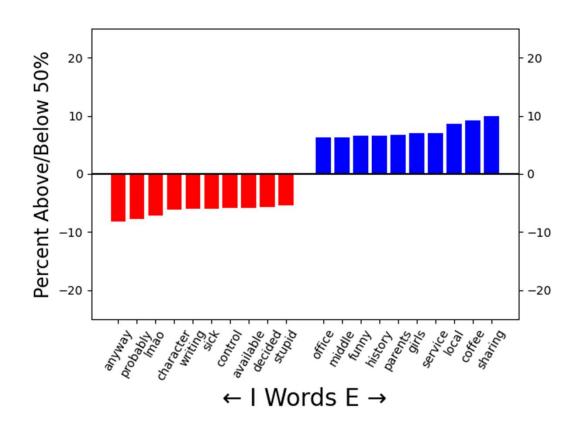
**BARRETT BRISTER** 

#### The Myers-Briggs Type Indicator

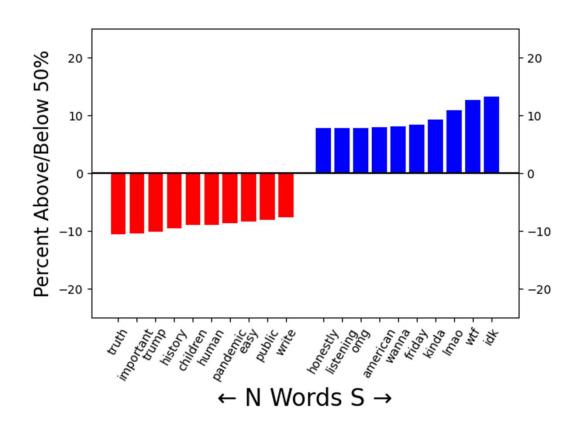
- History
- Axes of human personality: E vs. I, S vs. N, F vs. T, and J vs. P
  - 1. E vs. I
  - 2. S vs. N
  - 3. F vs. T
  - 4. J vs. P

#### Process

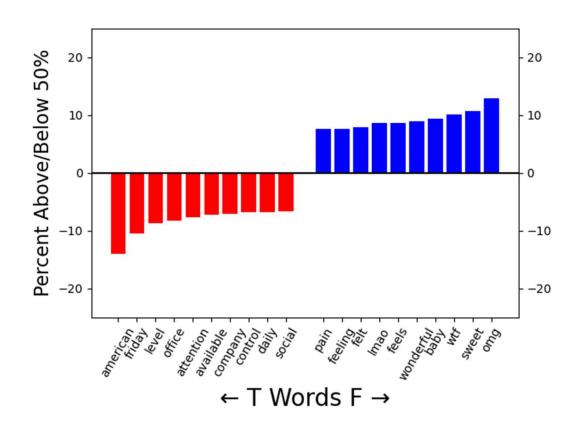
- Objective
  - Bag of words
  - Advertisement/business potential
- Author selection
- Assumptions
- Predictive words



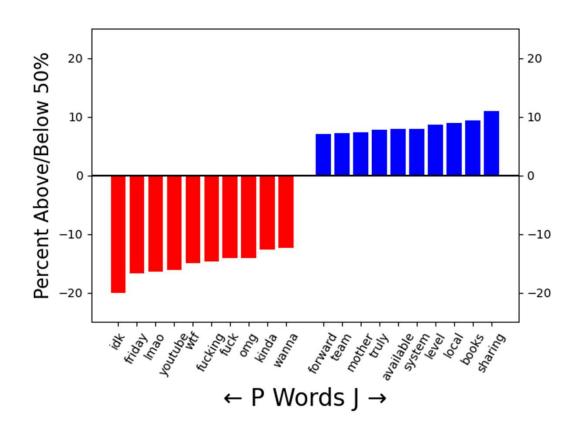
# Predictive Words: I vs. E



# Predictive Words: N vs. S



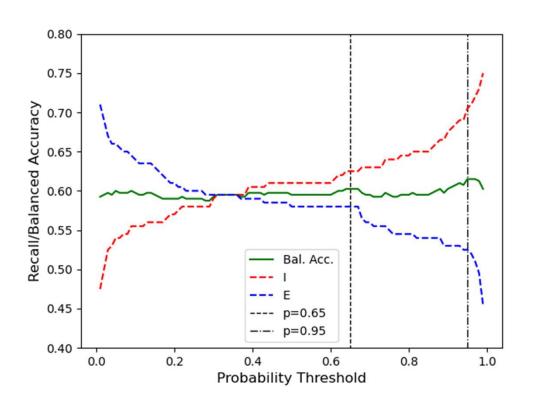
# Predictive Words: T vs. F



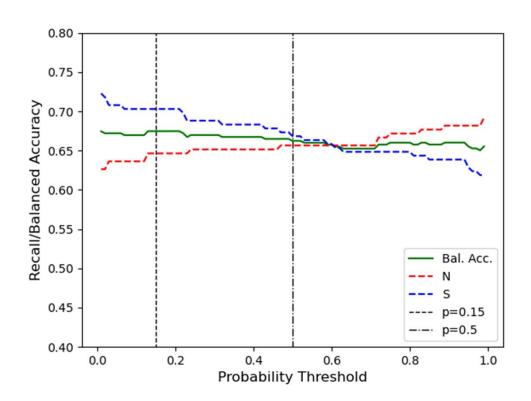
# Predictive Words: P vs. J

#### Modeling

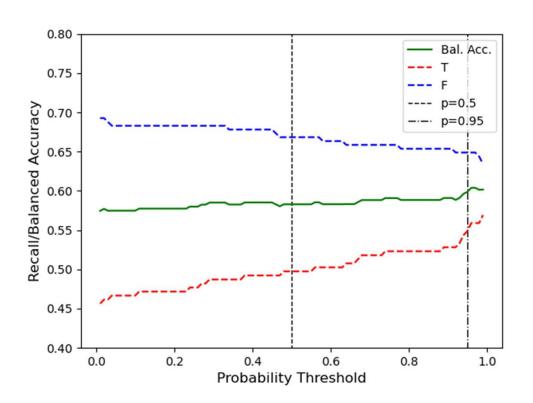
- Undue weighting of tweets: Problem and solution
- Classifiers
  - Classifiers considered
  - Classifier selected
- ► Likelihood probabilities
- Measures of success
  - ▶ Recall
  - ▶ Balanced accuracy



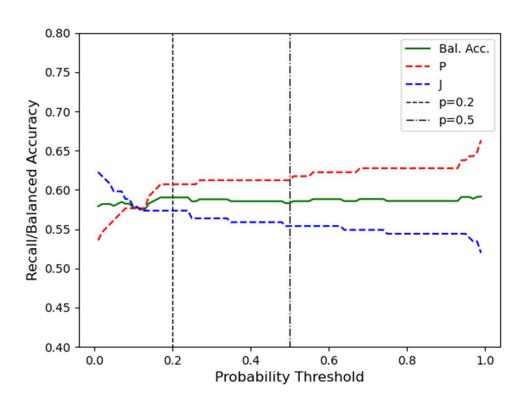
### Balanced Accuracy: I vs. E



### Balanced Accuracy: N vs. S



### Balanced Accuracy: T vs. F



### Balanced Accuracy: P vs. J

#### Conclusions

- ► Balance accuracy results
- Ways to improve
- Applications not requiring complete accuracy
- Next steps