Reddit Posts Classification Analysis

Muhamad Tahir GA Meeting 03/05/2021

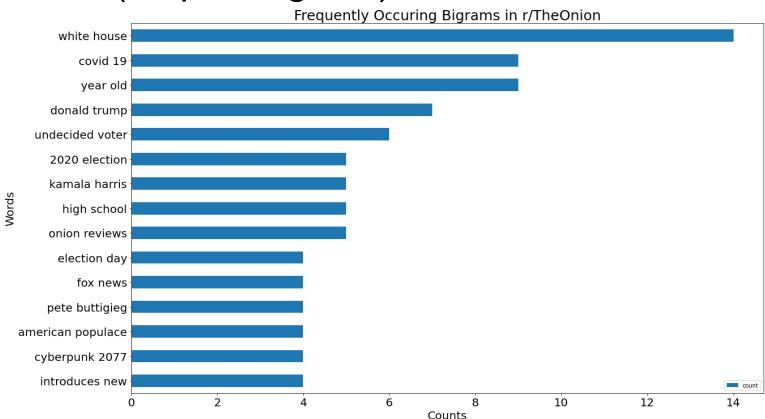
Content:

- Classification Analysis of Reddit Posts
- Cleaning & Exploratory Data Analysis
- Models prediction
- Best Scores Analysis
- Recommendation and Outlook

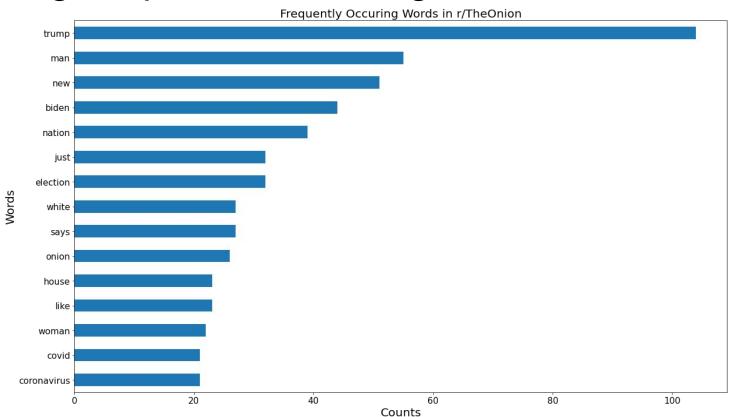
Major Goal:

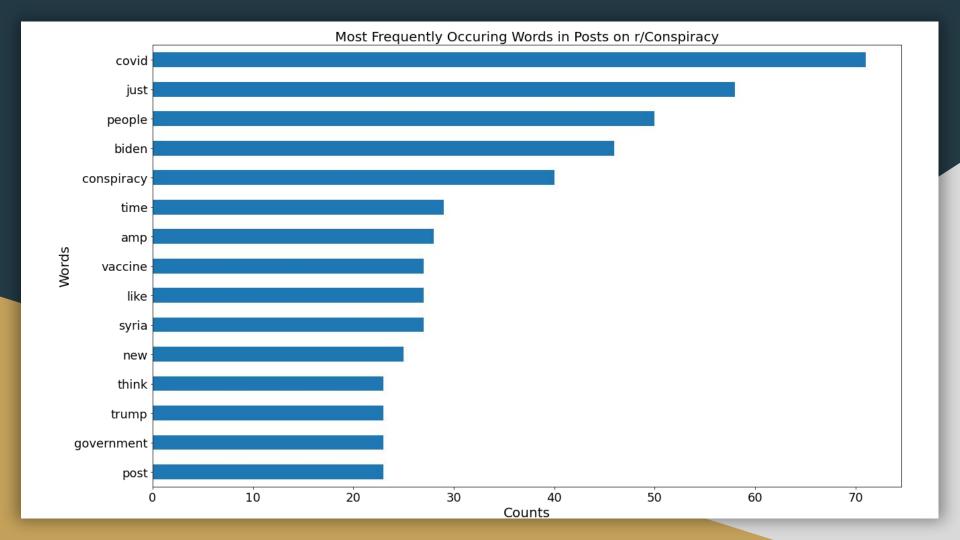
- Explore Two Reddit Posts
- Data cleaned and analyzed
- Models Employed: Logistic Regression, K-Nearest
 Neighbors, Multinomial Naive Bayes, Random Forest
- Results are Overfitted

Words (stop & Bigram) vs Count

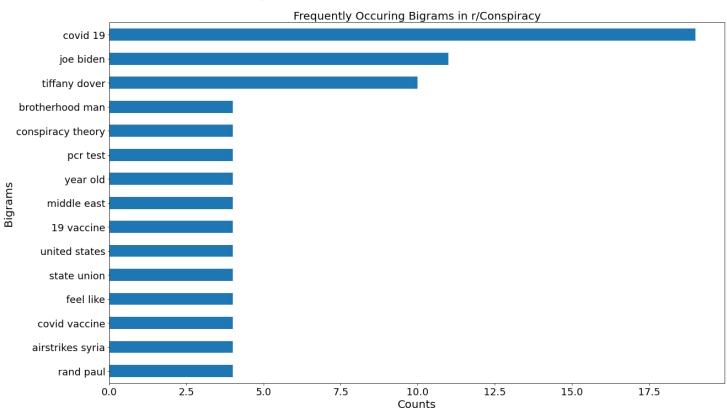


Using Stop Words of "English"





Stop words & Bigrams



Models and Score

Train and test Scores respectively:

Using CountVectorizer

- 1- Logistic Regression: 0.94 & 80
- 2- K-Nearest Neighbors: 0.7 & 0.58
- 3- Multinomial Naive Bayes: 0.93 & 81
- 4- Random Forest: 0.99 & 80

Recommendation & Outlook

- Results Overfitted with score: Train 0.93 & Test 0.82
- Difficult to distinguish These Subreddits
- Logistic Regression and Multinomial Naive Bayes:
 Baseline Scores 0.5
- Boosting or SVM may lead to better result