



Fake News classification

Brooke Coneeny and Sydney Levy



Table of contents

01

What is Fake
News?

02

Security
Goals

03

Exploratory
Analysis

04

Logistic Model

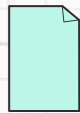
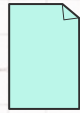
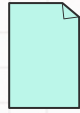
05

Word Frequency
Analysis

What is Fake News?

The term 'Fake News' is used to refer to news which is false or presents misleading information.

It's purpose is often to discredit public / political figures or make money through ad revenue.



Security Goals & Fake News



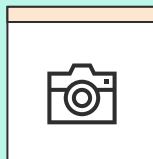
Availability

Fake news is widely available online and through social media



Integrity

Quotes and facts changed without permission



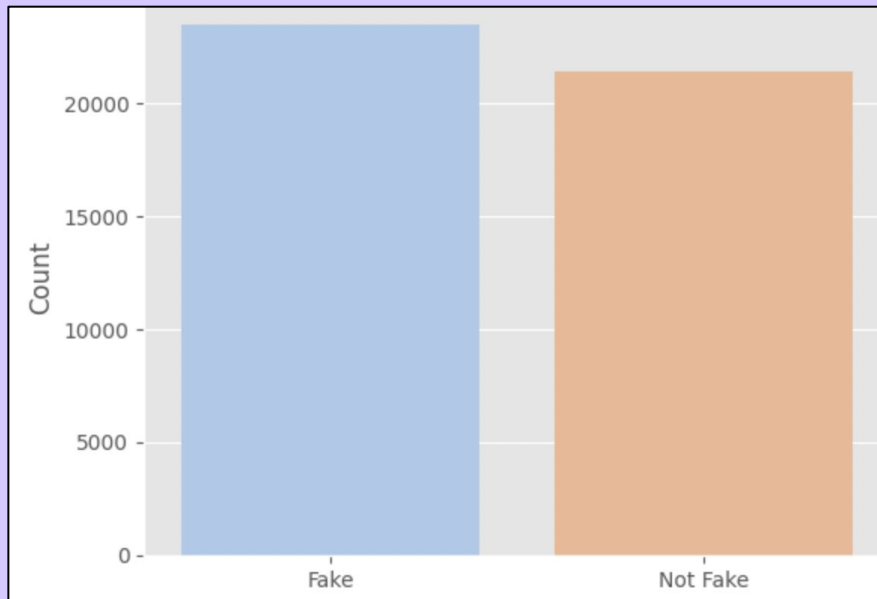
Accountability

Authors of fake news are often not held accountable for presenting false info

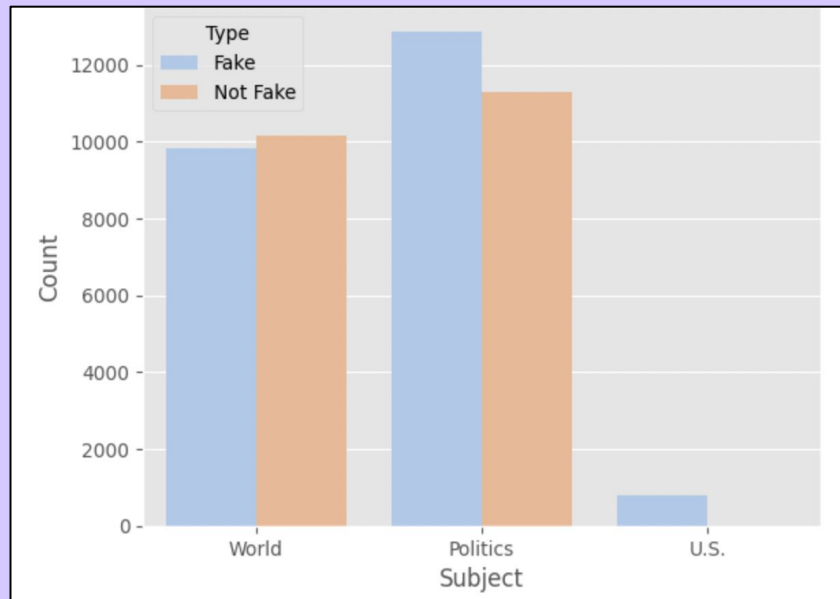


Exploratory Analysis

Percent of Fake News in Dataset

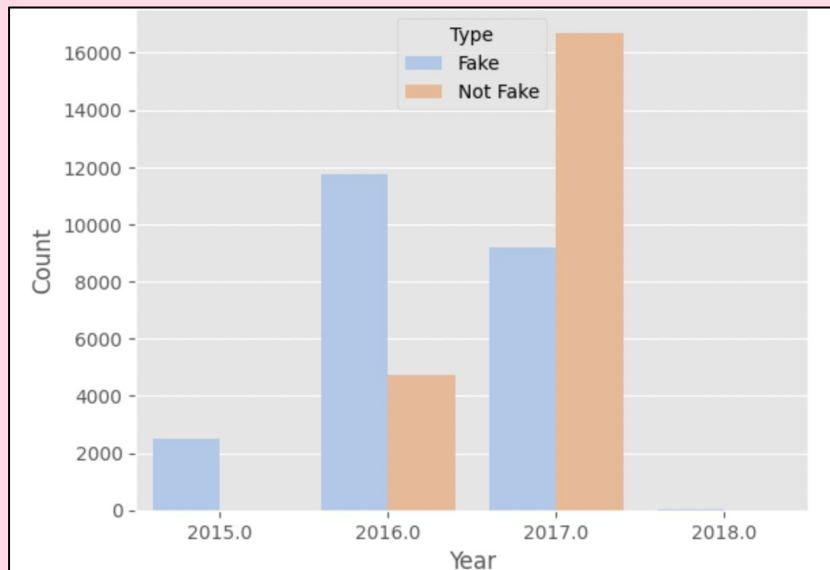


News by Subject

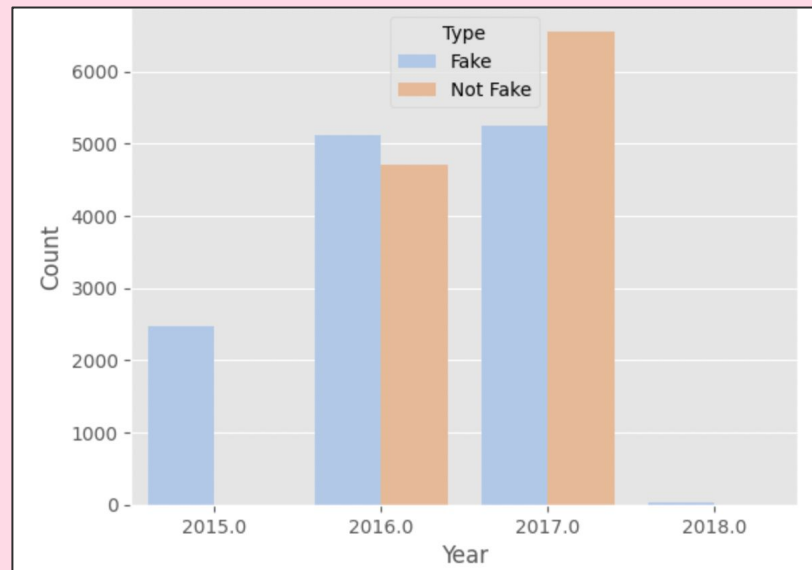


Exploratory Analysis Cont.

Percent of Fake News in Dataset



Percent of Fake News in Dataset

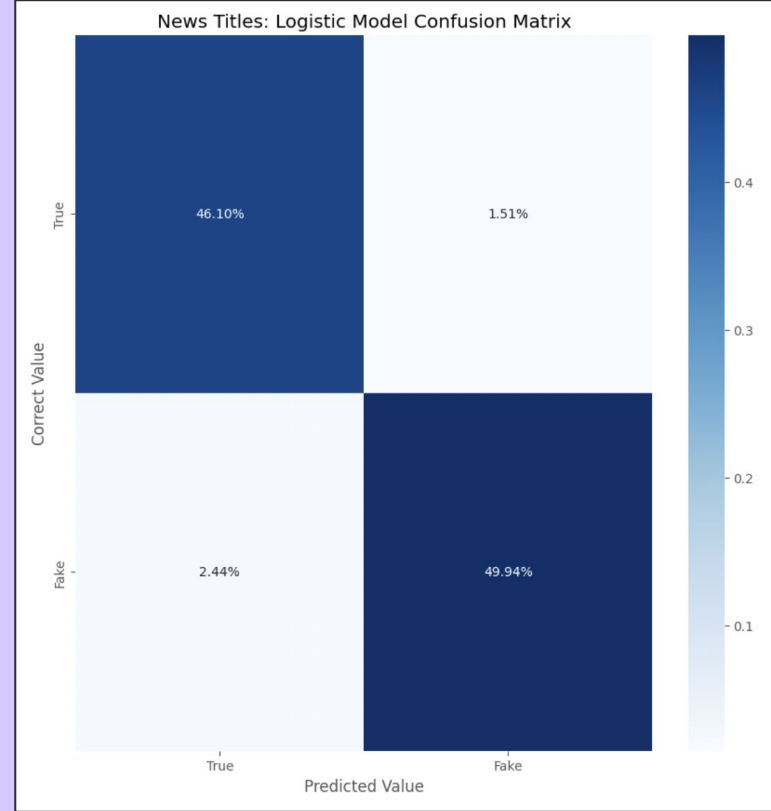




Logistic Model 1

Article Titles

Accuracy: 96%

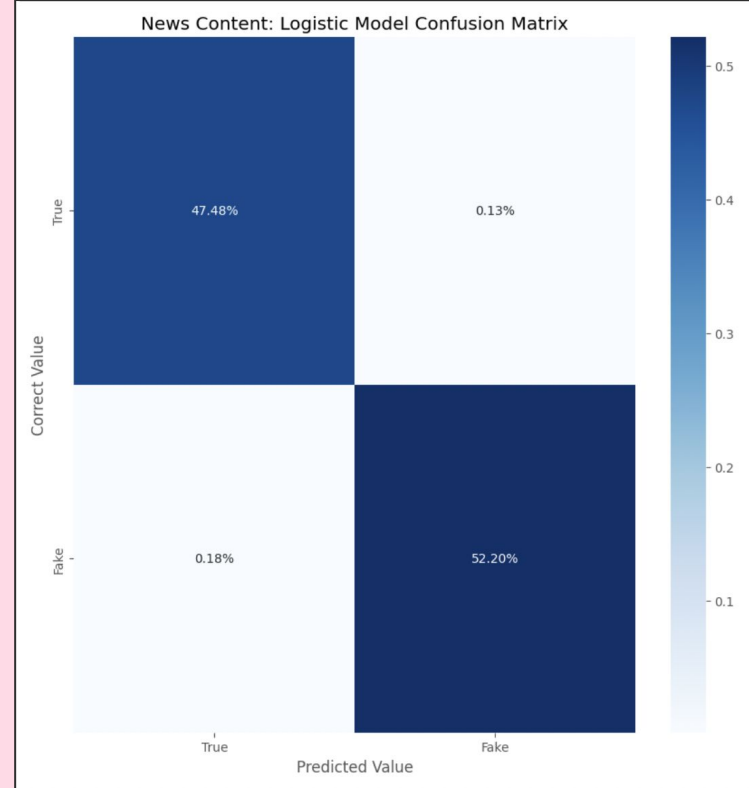




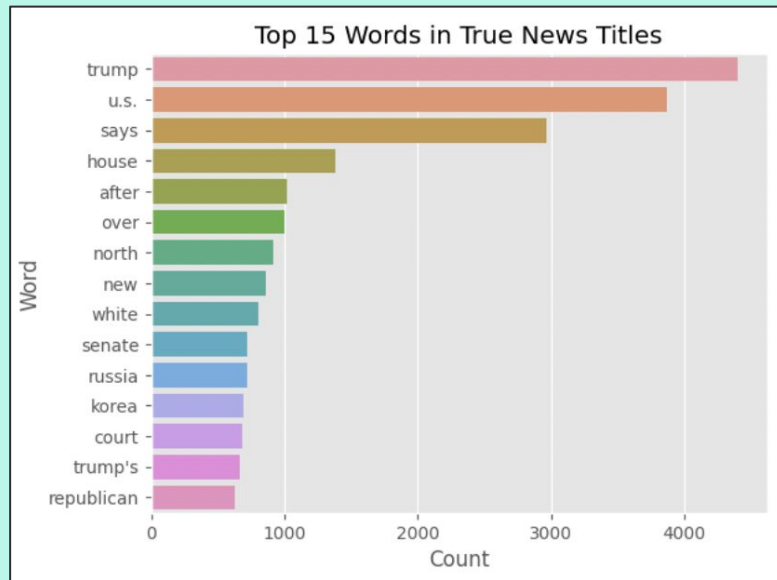
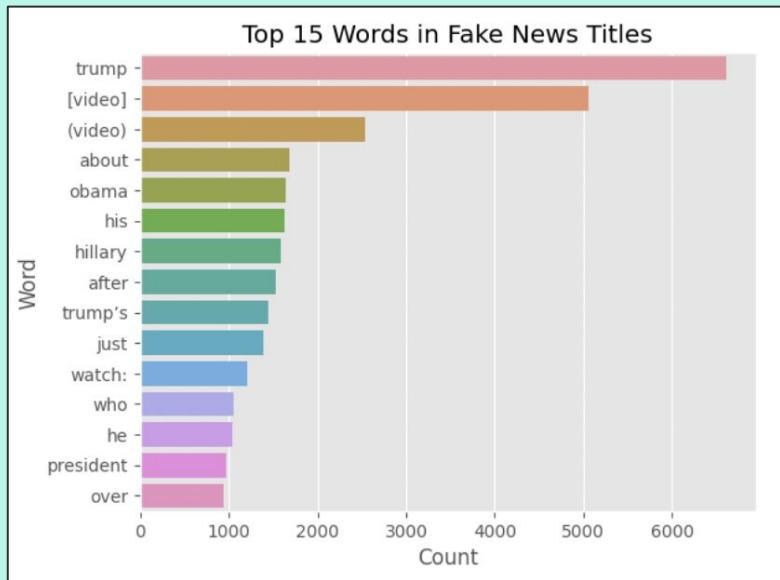
Logistic Model 2

Article Content

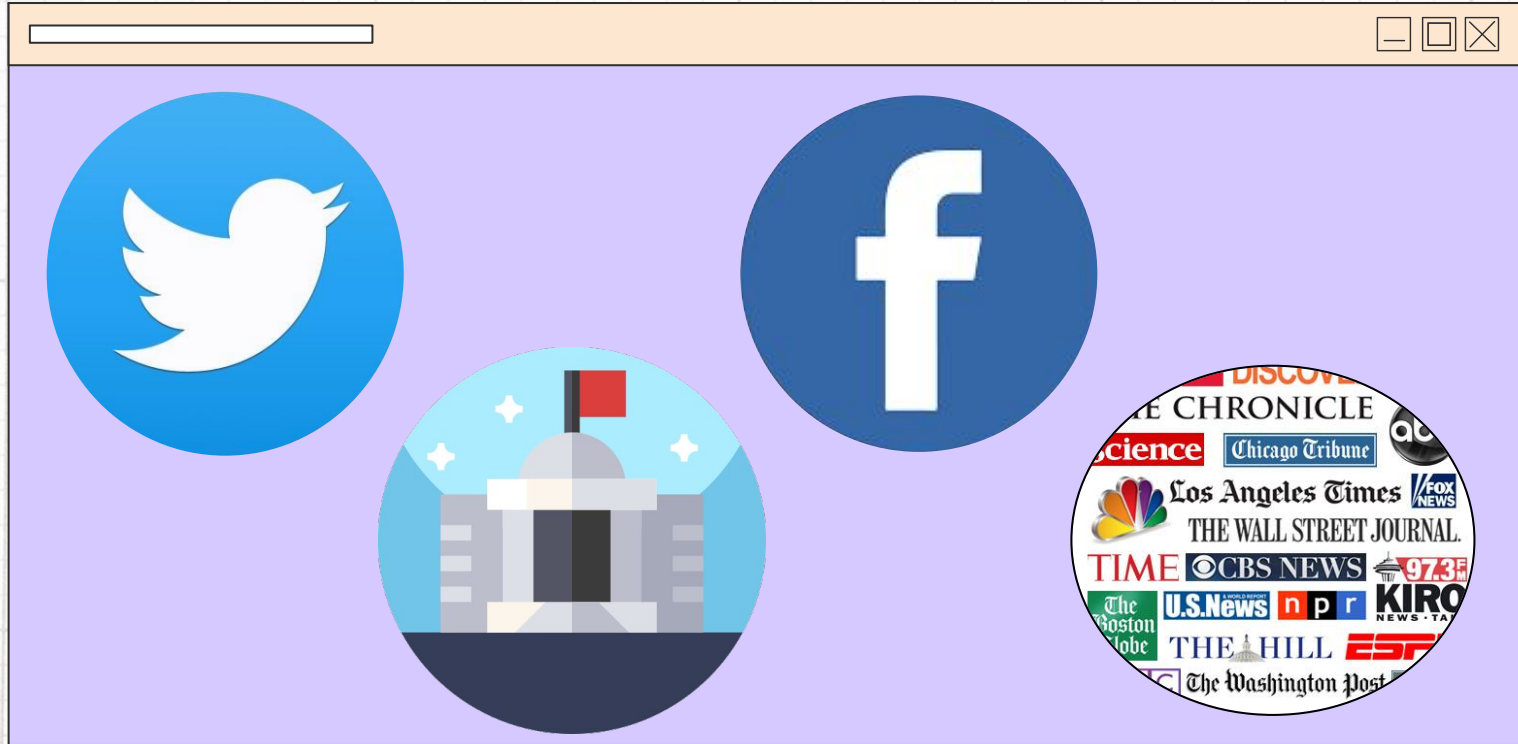
Accuracy: 99%



Word Frequency Analysis



Use Cases for Security & Privacy Today



Resources

- Link to Dataset:
<https://www.kaggle.com/code/maxcohen31/nlp-fake-news-detection-for-beginners/data>
- Link to Code Referenced for Logistic Model:
<https://www.kaggle.com/code/paramarthasengupta/fake-news-detector-eda-prediction-99>
- Link to Code Referenced for Analysis of Word Frequencies:
<https://www.kaggle.com/code/sreshta140/is-it-authentic-or-not>



Questions?

