

Finding **Real** About

Fake News

Presented by Angie Sheng

OUTLINE

1. **Talk about my capstone project**
2. **Why we should spot fake news**
3. **Possible implementations**

1. Talk about my capstone project



93.09%

FAKE NEWS

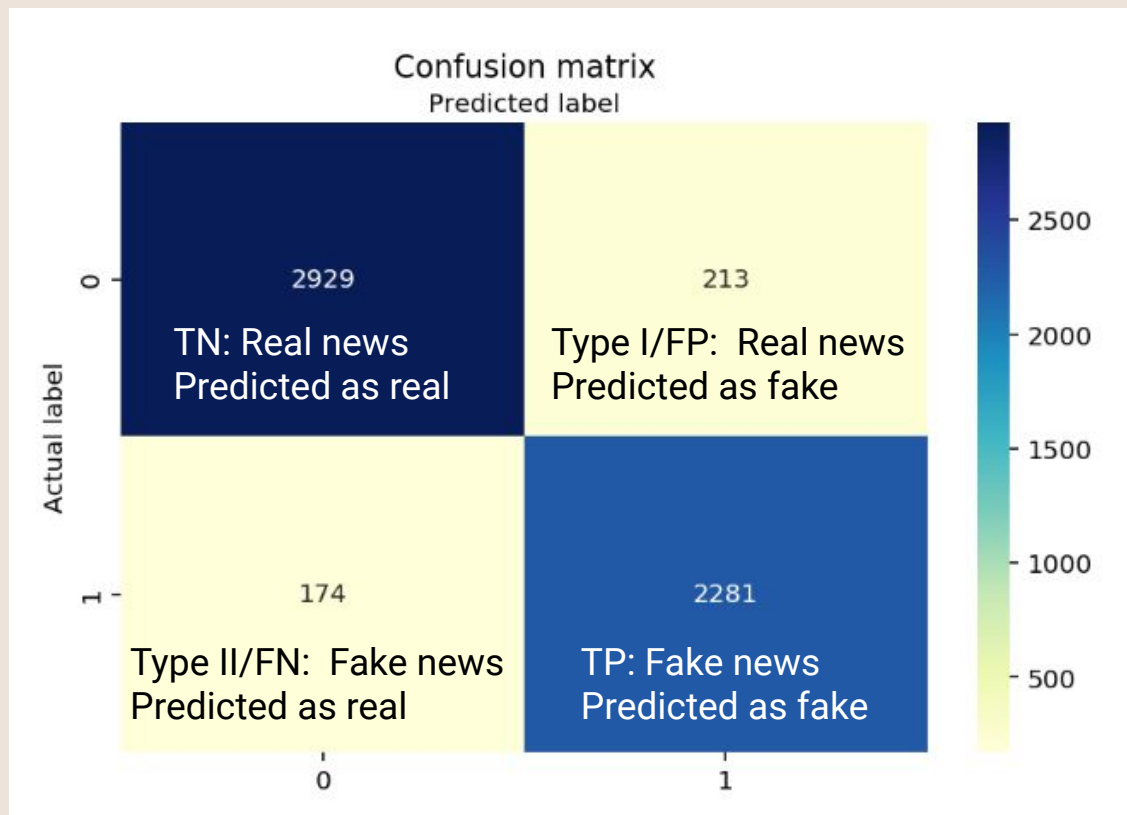
Accuracy

Goal: Try to use machine learning algorithms to differentiate fake news from real news, the baseline is 56.14%

Data set: Pre-labelled fake news and real news during Nov, 2016
More than 25,000+ articles

Method: CountVectorizer & Logistic Regression

Method: CountVectorizer & Logistic Regression



Accuracy

93.09%

Precision Score

91%

Recall Score

92%

2. Why we should spot fake news



'Two Explosions in the White House!



The Associated Press



@AP



Following

Breaking: Two Explosions in the White House and Barack Obama is injured



Reply



Retweet



Favorite



More

3,063

RETWEETS

144

FAVORITES



12:07 PM - 23 Apr 13

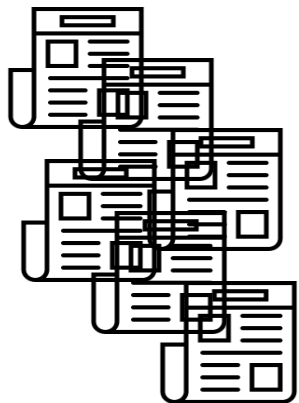
Two Explosions
in the White
House!

Causing the S&P 500 to decline 0.9%, enough to wipe out \$130 billion in stock value in a matter of seconds.

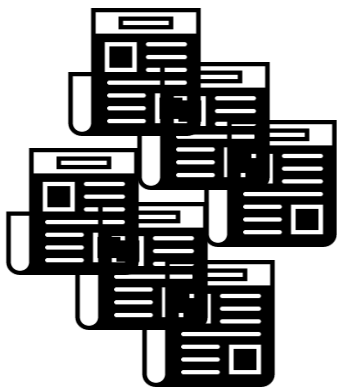


3. Possible Implementation



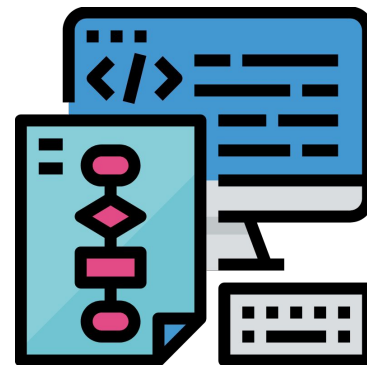
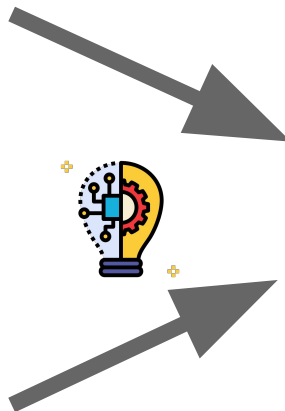


News labelled as **REAL**
From highly reliable medias,
E.g. CNN, The Guardian



News labelled as **FAKE**
From reports from users, articles
from theonion.com, etc
Then be manually reviewed

Hourly Update



MAGIC
ALGORITHM

If I were to
design my
own product...



Chrome Web Store - Extension x +

chrome.google.com/webstore/category/extensions

chrome web store

Search the store

Extensions

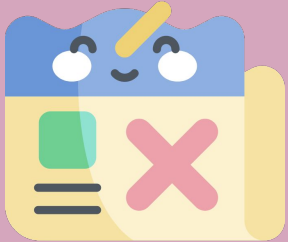
Themes

Categories

All

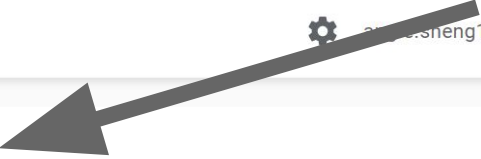
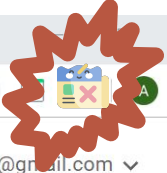
Features

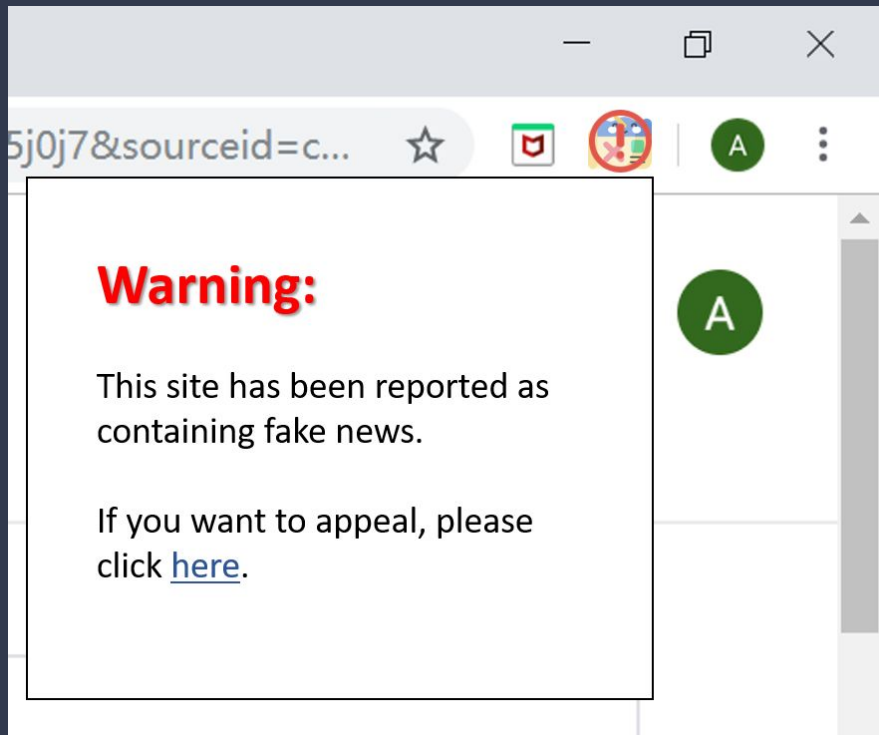
☐ Runs Offline



Fake News Detector

---A Chrome Extension





Start an appeal

Please Complete the following in its entirety.

First Name *

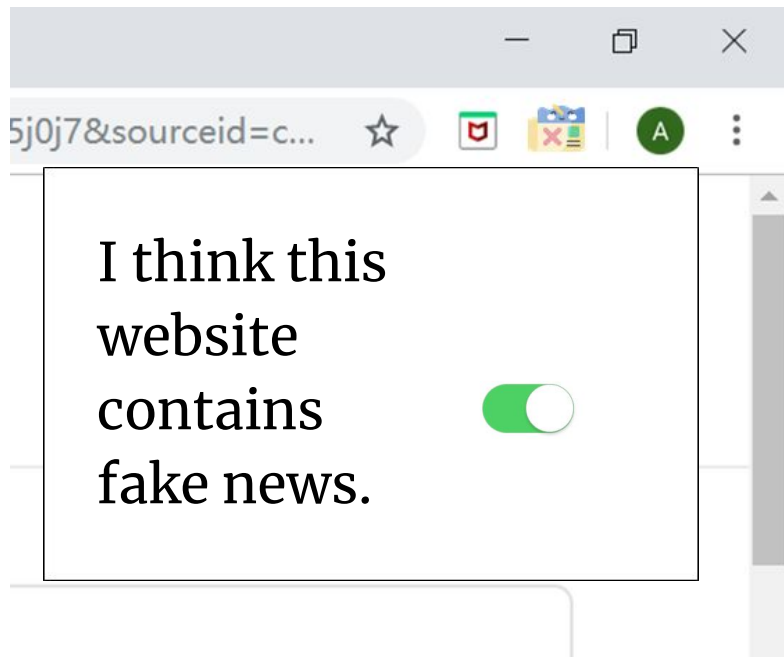
What do you want me to call you?

Last Name *

Email Address *

URL for Appeal *

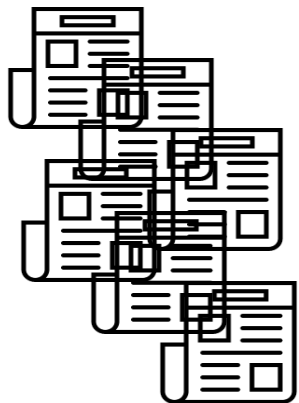
Report a website



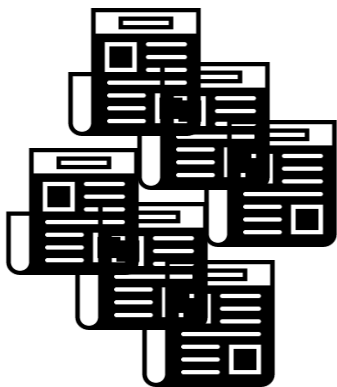
Manual Review



If we have more samples...

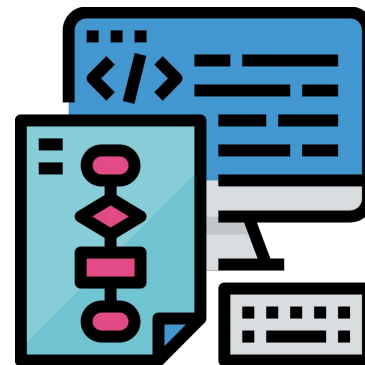
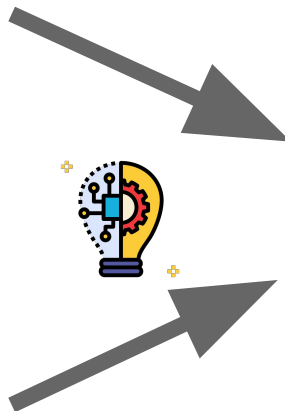


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Q & A