

Dataset Shape

```
Fake news dataset shape: (23481, 5)
True news dataset shape: (21417, 5)
```

Fake News Sample (head)

Fake news sample(head):

	title	text	subject	date	target
0	Donald Trump Sends Out Embarrassing New Year'...	Donald Trump just	.		
1	Drunk Bragging Trump Staffer Started Russian ...	House Intelligence Committee Chairman Devin Nu...	News	December 31, 2017	fake
2	Sheriff David Clarke Becomes An Internet Joke...	On Friday, it was revealed that former Milwauk...	News	December 30, 2017	fake
3	Trump Is So Obsessed He Even Has Obama's Name...	On Christmas day, Donald Trump announced that ...	News	December 29, 2017	fake
4	Pope Francis Just Called Out Donald Trump Dur...	Pope Francis used his annual Christmas Day mes...	News	December 25, 2017	fake

Fake News Sample (tail)

Fake news sample(tail):

	title	text	subject	date	target
23476	McPain: John McCain Furious That Iran Treated ...	21st Century Wire says As 21WIRE reported earl...	Middle-east	January 16, 2016	fake
23477	JUSTICE? Yahoo Settles E-mail Privacy Class-ac...	21st Century Wire says It s a familiar theme. ...	Middle-east	January 16, 2016	fake
23478	Sunnistan: US and Allied 'Safe Zone' Plan to T...	Patrick Henningsen 21st Century WireRemember ...	Middle-east	January 15, 2016	fake
23479	How to Blow \$700 Million: Al Jazeera America F...	21st Century Wire says Al Jazeera America will...	Middle-east	January 14, 2016	fake
23480	10 U.S. Navy Sailors Held by Iranian Military ...	21st Century Wire says As 21WIRE predicted in ...	Middle-east	January 12, 2016	fake

True News Sample (head)

True news sample(head):

	title	text	subject	date	target
0	As U.S. budget fight looms, Republicans flip t...	WASHINGTON (Reuters) - The head of a conservat...	politicsNews	December 31, 2017	true
1	U.S. military to accept transgender recruits o...	WASHINGTON (Reuters) - Transgender people will...	politicsNews	December 29, 2017	true
2	Senior U.S. Republican senator: 'Let Mr. Muell...	WASHINGTON (Reuters) - The special counsel inv...	politicsNews	December 31, 2017	true
3	FBI Russia probe helped by Australian diplomat...	WASHINGTON (Reuters) - Trump campaign adviser ...	politicsNews	December 30, 2017	true
4	Trump wants Postal Service to charge 'much mor...	SEATTLE/WASHINGTON (Reuters) - President Donal...	politicsNews	December 29, 2017	true

True News Sample (tail)

True news sample(tail):

	title	text	subject	date	target
21412	'Fully committed' NATO backs new U.S. approach...	BRUSSELS (Reuters) - NATO allies on Tuesday we...	worldnews	August 22, 2017	true
21413	LexisNexis withdrew two products from Chinese ...	LONDON (Reuters) - LexisNexis, a provider of l...	worldnews	August 22, 2017	true
21414	Minsk cultural hub becomes haven from authorities	MINSK (Reuters) - In the shadow of disused Sov...	worldnews	August 22, 2017	true
21415	Vatican upbeat on possibility of Pope Francis ...	MOSCOW (Reuters) - Vatican Secretary of State ...	worldnews	August 22, 2017	true
21416	Indonesia to buy \$1.14 billion worth of Russia...	JAKARTA (Reuters) - Indonesia will buy 11 Sukh...	worldnews	August 22, 2017	true

Fake - Missing Values

```
title has no missing values.
text has no missing values.
subject has no missing values.
date has no missing values.
target has no missing values.

Missing Value Summary
-----

Dataframe Missing Values
-----
title      0
text       0
subject    0
date       0
target     0
dtype: int64
```

True - Missing Values

```
title has no missing values.
text has no missing values.
subject has no missing values.
date has no missing values.
target has no missing values.

Missing Value Summary
-----

Dataframe Missing Values
-----
title      0
text       0
subject    0
date       0
target     0
dtype: int64
```

Fake - Remove Duplicates

```
Cleaning Summary
-----
Removed 3 duplicate rows in db data
```

True - Remove Duplicates

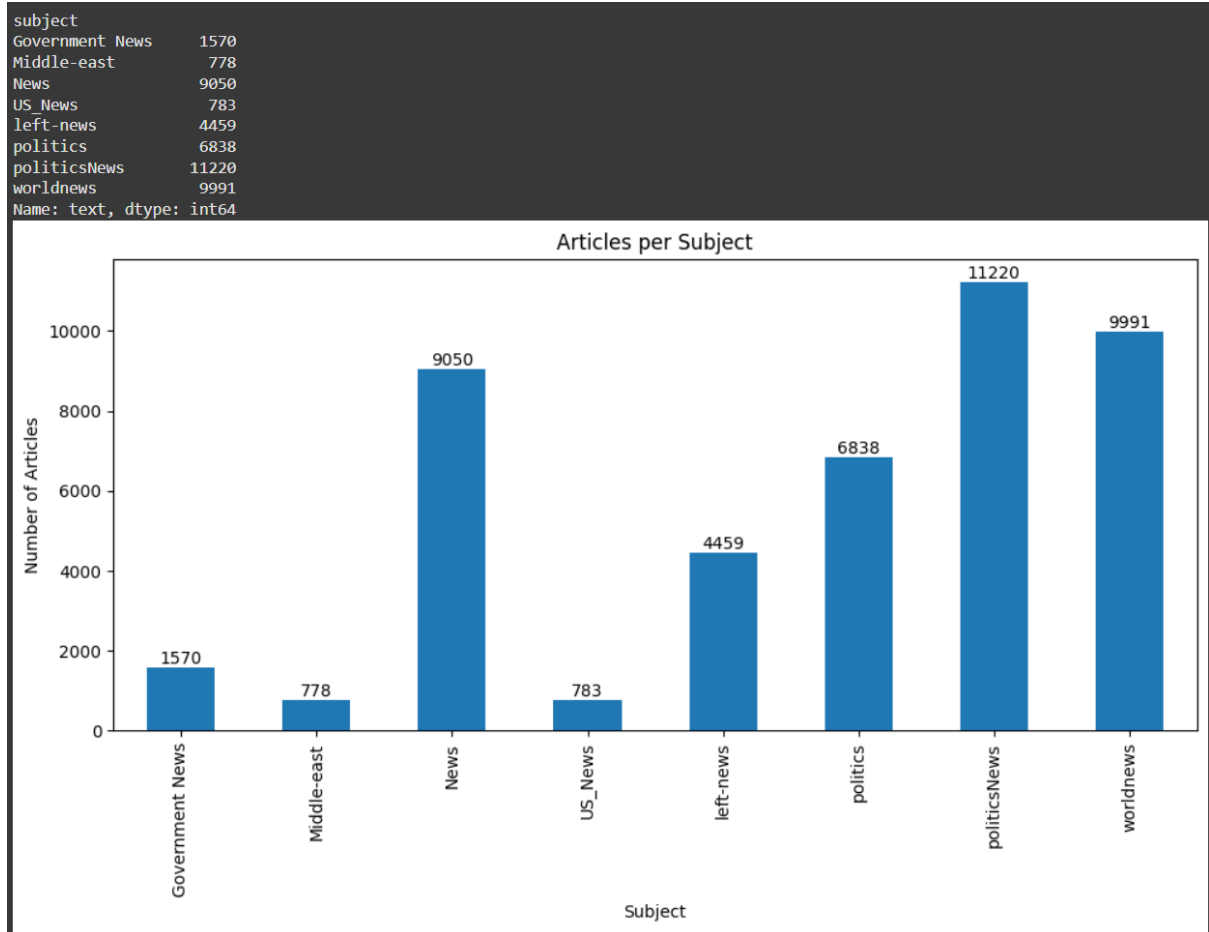
```
Cleaning Summary
-----
Removed 206 duplicate rows in db data
```

Combined Datasets

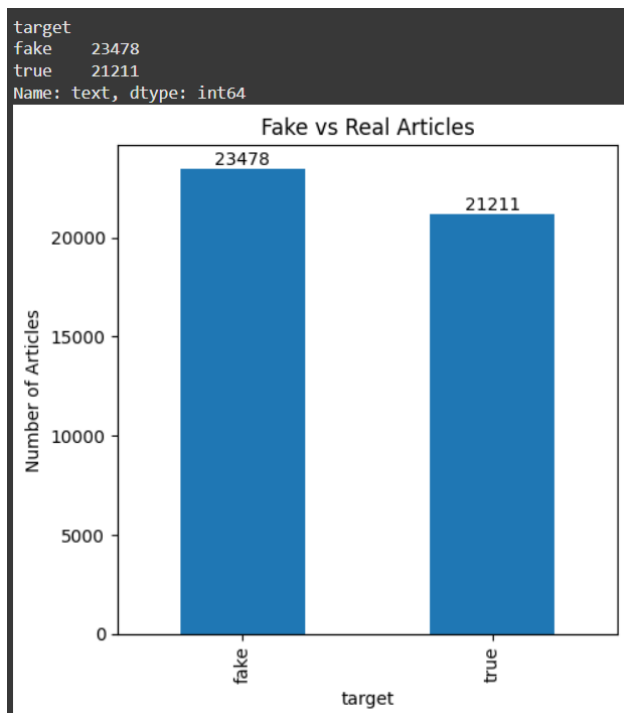
```
Data shape after loading and initial cleaning: (44689, 3)
```

	text	subject	target
0	washington reuters president donald trump decl...	politicsNews	true
1	washington reuters members us congress took fi...	politicsNews	true
2	buenos aires reuters victory argentine preside...	worldnews	true
3	bad gay pastor whole foods dead center surveil...	politics	fake
4	beirut reuters around 100 islamic state fighte...	worldnews	true

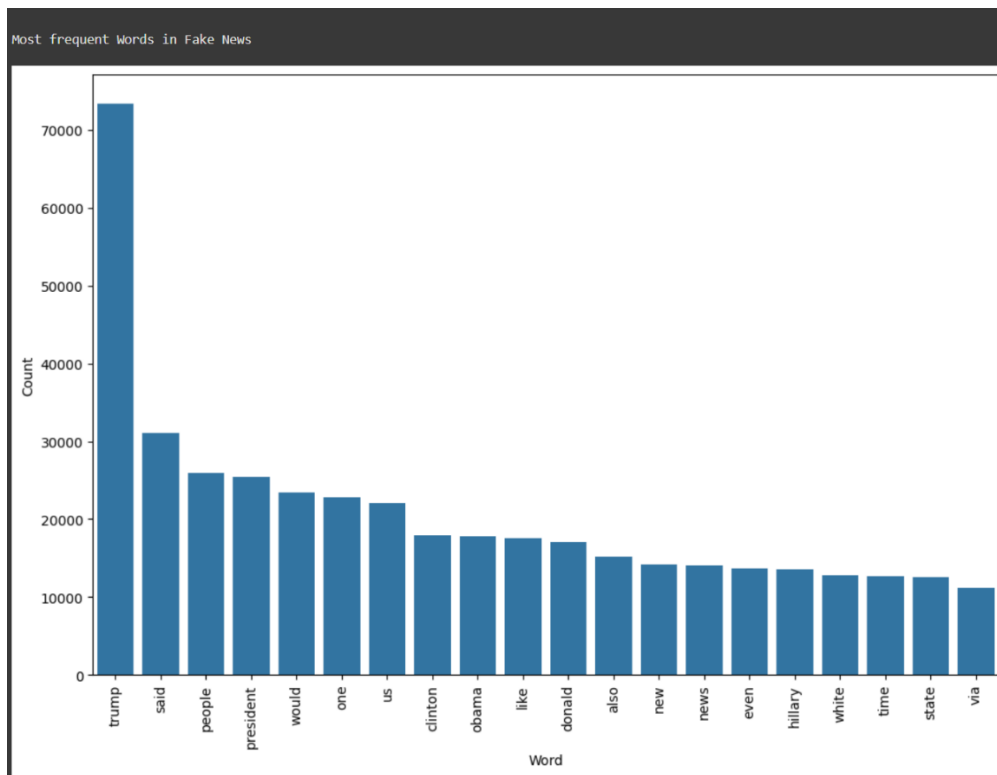
Articles per Subject



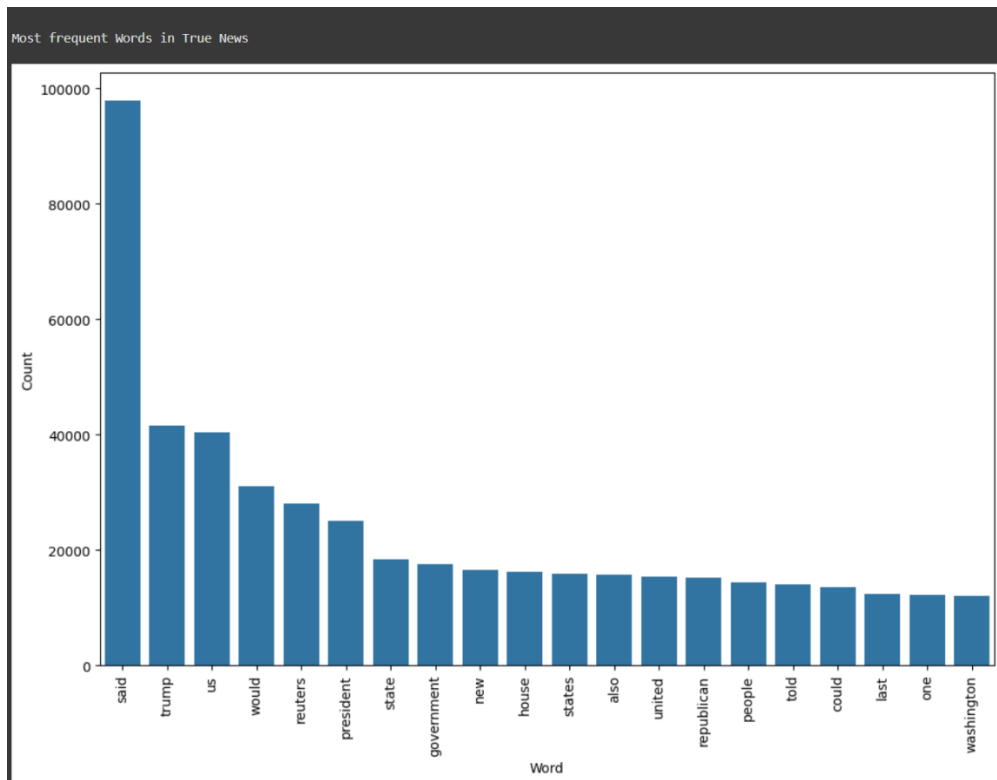
Fake vs Real Articles



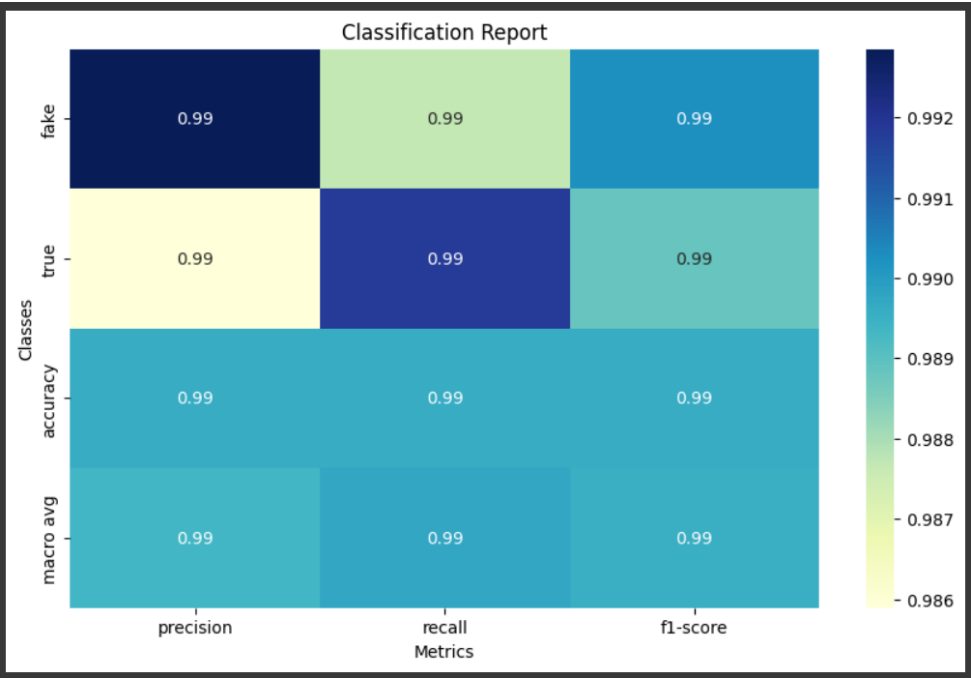
Frequent Words in Fake News



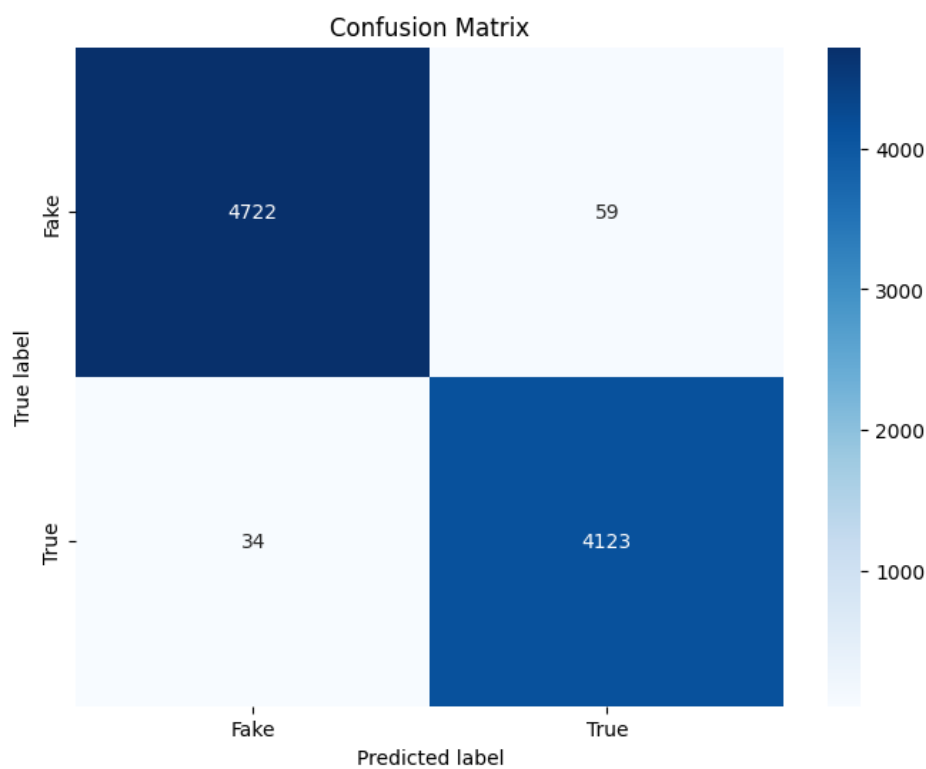
Frequent Words in True News



Classification Report



Confusion Report



Fake News Detection Application Interface



Fake News Detector

This app detects if a news headline is fake or real using machine learning.



Single Headline Check

Enter a news headline:



Batch Prediction from CSV

Upload CSV (must contain a 'text' column)



Drag and drop file here

Limit 200MB per file • CSV

Browse files