

```
[nltk_data] Downloading package stopwords to /root/nltk_data...
[nltk_data] Package stopwords is already up-to-date!
[nltk_data] Downloading package wordnet to /root/nltk_data...
[nltk_data] Package wordnet is already up-to-date!
```

- **fake_and_real_news.csv**(text/csv) - 25876225 bytes, last modified: 24/08/2025 - 100% done

Saving fake_and_real_news.csv to fake_and_real_news (1).csv

```
Text label
0 Top Trump Surrogate BRUTALLY Stabs Him In The... Fake
1 U.S. conservative leader optimistic of common ... Real
2 Trump proposes U.S. tax overhaul, stirs concer... Real
3 Court Forces Ohio To Allow Millions Of Illega... Fake
4 Democrats say Trump agrees to work on immigrat... Real
Index(['Text', 'label'], dtype='object')
```

◆ Logistic Regression Results

Accuracy: 0.9904040404040404

F1 Score: 0.990403562917463

| | precision | recall | f1-score | support |
|--------------|-----------|--------|----------|---------|
| Fake | 0.99 | 0.99 | 0.99 | 973 |
| Real | 0.99 | 0.99 | 0.99 | 1007 |
| accuracy | | | 0.99 | 1980 |
| macro avg | 0.99 | 0.99 | 0.99 | 1980 |
| weighted avg | 0.99 | 0.99 | 0.99 | 1980 |

◆ Naive Bayes Results

Accuracy: 0.9636363636363636

F1 Score: 0.9636332456683212

| | precision | recall | f1-score | support |
|--------------|-----------|--------|----------|---------|
| Fake | 0.97 | 0.96 | 0.96 | 973 |
| Real | 0.96 | 0.97 | 0.96 | 1007 |
| accuracy | | | 0.96 | 1980 |
| macro avg | 0.96 | 0.96 | 0.96 | 1980 |
| weighted avg | 0.96 | 0.96 | 0.96 | 1980 |

