

Import Libraries

```
import pandas as pd
import numpy as np
from sklearn.feature_extraction.text import CountVectorizer
from sklearn.model_selection import train_test_split
from sklearn.naive_bayes import MultinomialNB
```

Load and Read the Dataset

```
data = pd.read_csv("/content/fake_or_real_news.csv", engine='python', encoding='utf-8', error_bad_lines=False)
```

<ipython-input-5-994d77bf50e0>:1: FutureWarning: The error_bad_lines argument has been deprecated and will be removed in a future v

```
data = pd.read_csv("/content/fake_or_real_news.csv", engine='python', encoding='utf-8', error_bad_lines=False)
Skipping line 3880: unexpected end of data
```

```
print(data.head())
```

```

   Unnamed: 0      title \
0      8476      You Can Smell Hillary's Fear
1    10294  Watch The Exact Moment Paul Ryan Committed Pol...
2     3608      Kerry to go to Paris in gesture of sympathy
3    10142  Bernie supporters on Twitter erupt in anger ag...
4       875  The Battle of New York: Why This Primary Matters
```

```

      text label
0  Daniel Greenfield, a Shillman Journalism Fello...  FAKE
1  Google Pinterest Digg LinkedIn Reddit Stumbleu...  FAKE
2  F. Kerry said Mon...  REAL
3  November 9, 2016 T...  FAKE
4  It's primary day in New York and front-runners...  REAL
```

```
x = np.array(data["title"])
y = np.array(data["label"])
```

```
print(x)
print(y)
```

```

['You Can Smell Hillary's Fear'
 'Watch The Exact Moment Paul Ryan Committed Political Suicide At A Trump Rally (VIDEO)'
 'Kerry to go to Paris in gesture of sympathy' ...
 'Donald Trump, Peacenik President? : Information'
 'Merkel: Worried about Islamisation? Just Sing Christmas Carols'
 'Trump's abortion answer confirms GOP fears']
['FAKE' 'FAKE' 'REAL' ... 'FAKE' 'FAKE' 'REAL']
```

```
cv = CountVectorizer()
x = cv.fit_transform(x)
```

Splitting the Dataset

```
xtrain, xtest, ytrain, ytest = train_test_split(x, y, test_size=0.2, random_state=42)
model = MultinomialNB()
model.fit(xtrain, ytrain)
print(model.score(xtest, ytest))
```

```
0.8092783505154639
```

Data Preprocessing

```
news_headline = "Fact check: Trump and Clinton at the 'commander-in-chief' forum"
data = cv.transform([news_headline]).toarray()
print(model.predict(data))
```

```
['REAL']
```

```
news_headline = "Cow dung can cure Corona Virus"
data = cv.transform([news_headline]).toarray()
print(model.predict(data))
```

```
['FAKE']
```

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Saving...