MLproject

October 9, 2024

```python
[221]: import pandas as pd
       import seaborn as sns
       import matplotlib.pyplot as plt
       import numpy as np
       from sklearn.model_selection import train_test_split
       from sklearn.metrics import classification_report, confusion_matrix,␣
         ↪accuracy_score, roc_curve, auc, precision_recall_curve
       from sklearn.feature_extraction.text import TfidfVectorizer
       from sklearn.linear_model import LogisticRegression
       from sklearn import tree
       from sklearn.tree import DecisionTreeClassifier
       from wordcloud import WordCloud, STOPWORDS
       from sklearn.datasets import make_classification
       from nltk.corpus import stopwords
       from bs4 import BeautifulSoup
       from collections import Counter
       import re
       import string
```

```python
[222]: # Read the CSV files for fake and true news

       fake_news = pd.read_csv("/notebooks/ML project/Fake.csv")
       true_news=pd.read_csv("/notebooks/ML project/True.csv")
```

```python
[223]: # Label the datasets, 0 for Real news and 1 for Fake news
       true_news["News_classifier"] = 0
       fake_news["News_classifier"]=1
```

```python
[224]: # Display the shape and first few rows of the real news
       print(true_news.shape)
       true_news.head(10)
```

```
(21417, 5)
```

```
[224]:                                                   title  \
       0  As U.S. budget fight looms, Republicans flip t…
       1  U.S. military to accept transgender recruits o…
```

```
2  Senior U.S. Republican senator: 'Let Mr. Muell…
3  FBI Russia probe helped by Australian diplomat…
4  Trump wants Postal Service to charge 'much mor…
5  White House, Congress prepare for talks on spe…
6  Trump says Russia probe will be fair, but time…
7  Factbox: Trump on Twitter (Dec 29) - Approval …
8          Trump on Twitter (Dec 28) - Global Warming
9  Alabama official to certify Senator-elect Jone…


                                                text       subject  \
0  WASHINGTON (Reuters) - The head of a conservat…  politicsNews
1  WASHINGTON (Reuters) - Transgender people will…  politicsNews
2  WASHINGTON (Reuters) - The special counsel inv…  politicsNews
3  WASHINGTON (Reuters) - Trump campaign adviser …  politicsNews
4  SEATTLE/WASHINGTON (Reuters) - President Donal…  politicsNews
5  WEST PALM BEACH, Fla./WASHINGTON (Reuters) - T…  politicsNews
6  WEST PALM BEACH, Fla (Reuters) - President Don…  politicsNews
7  The following statements were posted to the ve…  politicsNews
8  The following statements were posted to the ve…  politicsNews
9  WASHINGTON (Reuters) - Alabama Secretary of St…  politicsNews


                date  News_classifier
0  December 31, 2017                0
1  December 29, 2017                0
2  December 31, 2017                0
3  December 30, 2017                0
4  December 29, 2017                0
5  December 29, 2017                0
6  December 29, 2017                0
7  December 29, 2017                0
8  December 29, 2017                0
9  December 28, 2017                0
```

```python
# Display the shape and first few rows of the fake news
print(fake_news.shape)
fake_news.head(10)
```

```
(23481, 5)
```

```
                                               title  \
0   Donald Trump Sends Out Embarrassing New Year'…
1   Drunk Bragging Trump Staffer Started Russian …
2   Sheriff David Clarke Becomes An Internet Joke…
3   Trump Is So Obsessed He Even Has Obama's Name…
4   Pope Francis Just Called Out Donald Trump Dur…
5   Racist Alabama Cops Brutalize Black Boy While…
6   Fresh Off The Golf Course, Trump Lashes Out A…
```

```
7    Trump Said Some INSANELY Racist Stuff Inside …
8    Former CIA Director Slams Trump Over UN Bully…
9    WATCH: Brand-New Pro-Trump Ad Features So Muc…

                                                    text subject  \
0  Donald Trump just couldn t wish all Americans …    News
1  House Intelligence Committee Chairman Devin Nu…    News
2  On Friday, it was revealed that former Milwauk…    News
3  On Christmas day, Donald Trump announced that …    News
4  Pope Francis used his annual Christmas Day mes…    News
5  The number of cases of cops brutalizing and ki…   News
6  Donald Trump spent a good portion of his day a…    News
7  In the wake of yet another court decision that…    News
8  Many people have raised the alarm regarding th…    News
9  Just when you might have thought we d get a br…    News

                date  News_classifier
0  December 31, 2017                1
1  December 31, 2017                1
2  December 30, 2017                1
3  December 29, 2017                1
4  December 25, 2017                1
5  December 25, 2017                1
6  December 23, 2017                1
7  December 23, 2017                1
8  December 22, 2017                1
9  December 21, 2017                1
```

```python
#Here we drop 15 percent of the data and save them so that we can later test
 ↪with the untrained data

def drop_and_save_last_percent(dataframe, percent, file_name):
    """
    Drops the last 'percent' rows from the DataFrame and saves the dropped rows
 ↪into a CSV file.

    Parameters:
    dataframe: pd.DataFrame - The DataFrame to process.
    percent: float - The percentage of rows to drop from the end of the
 ↪DataFrame.
    file_name: str - The file name to save the dropped rows into.

    Returns:
    The updated DataFrame with the last 'percent' rows removed.
    """
    # Calculate the number of rows to drop
    num_rows = len(dataframe)
```

```python
        num_to_drop = int(num_rows * percent)

        # Save the last 'percent' of the rows into a separate DataFrame
        dropped_data = dataframe.tail(num_to_drop)

        # Drop the last 'percent' of the rows from the original DataFrame
        dataframe.drop(dataframe.index[-num_to_drop:], inplace=True)

        # Save the dropped data to a CSV file
        dropped_data.to_csv(file_name, index=False)

        return dataframe

# Applying the function to fake_news and true_news
fake_news = drop_and_save_last_percent(fake_news, 0.15, 'fake_news_test_data.
 ↪csv')
true_news = drop_and_save_last_percent(true_news, 0.15, 'true_news_test_data.
 ↪csv')
```

```python
[227]: #check the shape of initial fake and true news dataset now after deleting
print(fake_news.shape)
print(true_news.shape)
```

```
(19959, 5)
(18205, 5)
```

```python
[228]: # Merge the 70 percents of the initial datasets to combine them for training

News_merged = pd.concat([fake_news, true_news])
```

```python
[229]: # Print the distribution of the 'News_classifier' column (Fake vs Real news␣
 ↪counts)
print(News_merged['News_classifier'].value_counts())

# Print the shape of the DataFrame (number of rows and columns)
print(News_merged.shape)

# Print the column names of the DataFrame
print(News_merged.columns)

# Set the style for the plot and plot the distribution of fake vs real news
sns.set_style("darkgrid")  # Apply a dark grid style to the plot
sns.countplot(x='News_classifier', data=News_merged)  # Create a count plot for␣
 ↪the 'News_classifier' column
plt.show()  # Display the plot
```

```python
# Plot a count of the subject column grouped by the 'News_classifier' (fake vs
↪real news) with custom styling
plt.figure(figsize=(12, 8))  # Set the figure size for better readability
sns.set(style="whitegrid", font_scale=1.2)  # Apply a white grid style and
↪adjust font size for better clarity
chart = sns.countplot(x="subject", hue="News_classifier", data=News_merged)  #
↪Create a count plot with subject as x and hue for News_classifier

# Rotate the x-axis labels for better readability
chart.set_xticks(chart.get_xticks())  # Ensure ticks are set properly before
↪rotation
chart.set_xticklabels(chart.get_xticklabels(), rotation=90)  # Rotate the
↪x-axis labels by 90 degrees

plt.show()  # Display the plot
```
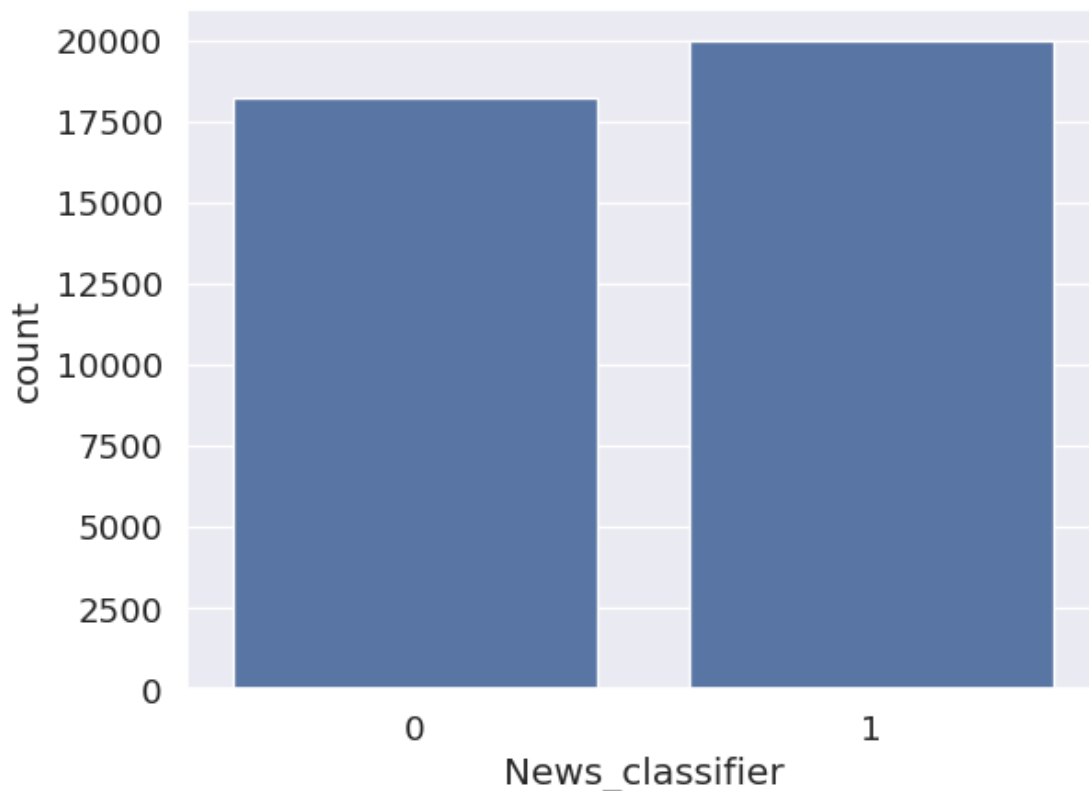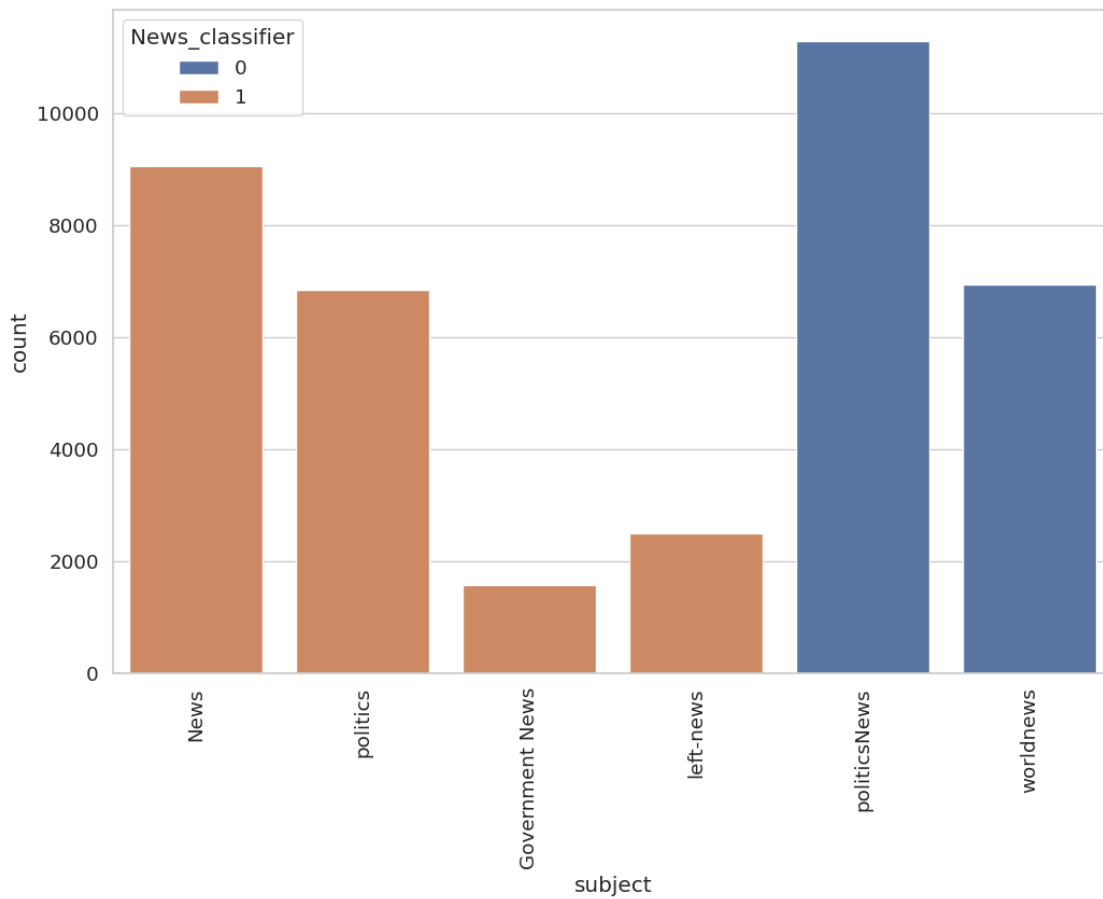
```
News_classifier
1    19959
0    18205
Name: count, dtype: int64
(38164, 5)
Index(['title', 'text', 'subject', 'date', 'News_classifier'], dtype='object')
```

```
[230]: News_merged.head(10)
```

```
[230]:                                               title  \
       0   Donald Trump Sends Out Embarrassing New Year'…
       1   Drunk Bragging Trump Staffer Started Russian …
       2   Sheriff David Clarke Becomes An Internet Joke…
       3   Trump Is So Obsessed He Even Has Obama's Name…
       4   Pope Francis Just Called Out Donald Trump Dur…
       5   Racist Alabama Cops Brutalize Black Boy While…
       6   Fresh Off The Golf Course, Trump Lashes Out A…
       7   Trump Said Some INSANELY Racist Stuff Inside …
       8   Former CIA Director Slams Trump Over UN Bully…
       9   WATCH: Brand-New Pro-Trump Ad Features So Muc…


                                               text subject  \
       0   Donald Trump just couldn t wish all Americans …    News
       1   House Intelligence Committee Chairman Devin Nu…    News
```

```
2   On Friday, it was revealed that former Milwauk…    News
3   On Christmas day, Donald Trump announced that …    News
4   Pope Francis used his annual Christmas Day mes…    News
5   The number of cases of cops brutalizing and ki…   News
6   Donald Trump spent a good portion of his day a…   News
7   In the wake of yet another court decision that…    News
8   Many people have raised the alarm regarding th…   News
9   Just when you might have thought we d get a br…    News
```

```
                date  News_classifier
0   December 31, 2017                1
1   December 31, 2017                1
2   December 30, 2017                1
3   December 29, 2017                1
4   December 25, 2017                1
5   December 25, 2017                1
6   December 23, 2017                1
7   December 23, 2017                1
8   December 22, 2017                1
9   December 21, 2017                1
```

[231]:
```python
## Prepare the dataset by dropping unnecessary columns
new_dataframe = News_merged.drop(["title", "subject","date"], axis = 1)
```

[232]:
```python
#check if there are null values
new_dataframe.isnull().sum()
```

[232]:
```
text               0
News_classifier    0
dtype: int64
```

[233]:
```python
new_dataframe = new_dataframe.sample(frac = 1)
```

[234]:
```python
#shuffle the data for randomness
new_dataframe.reset_index(inplace = True)
new_dataframe.drop(["index"], axis = 1, inplace = True)
```

[235]:
```python
#check the columns
new_dataframe.columns
```

[235]:
```
Index(['text', 'News_classifier'], dtype='object')
```

[236]:
```python
#visualize the data a bit
new_dataframe.head()
```

[236]:
```
                                          text  News_classifier
0  President Trump just made an 11-year old boy s…                1
```

```
1  WASHINGTON (Reuters) - The Trump administratio…                0
2  You would think that after President Barack Ob…                1
3  The GOP didn t panic when a poll conducted ear…                1
4  Things just went from bad to worse for the Rep…                1
```

[237]:
```python
# Text preprocessing function to clean and preprocess the data
def textprocessor(text):
    # Convert the text to lowercase
    text = text.lower()

    # Remove text inside brackets, URLs, HTML tags, newlines, and words␣
    ↪containing numbers
    text = re.sub(r'\[.*?\]|https?://\S+|www\.\S+|<.*?>+|\n|\w*\d\w*', '', text)

    # Remove any non-alphabetical characters (including punctuation), keeping␣
    ↪only letters and spaces
    text = re.sub(r'[^a-z\s]', '', text)

    # Remove leading and trailing whitespaces from the cleaned text
    return text.strip()
```

[238]:
```python
# Split the dataset into training and testing sets
x = new_dataframe["text"]
y = new_dataframe["News_classifier"]
x_train, x_test, y_train, y_test = train_test_split(x, y, test_size=0.25)
```

[239]:
```python
# Vectorize the text data using TF-IDF
vectorization = TfidfVectorizer()
xVectorTrain = vectorization.fit_transform(x_train)
xVectorTest = vectorization.transform(x_test)
```

[240]:
```python
# Logistic Regression Model
logisticreg= LogisticRegression()
logisticreg.fit(xVectorTrain,y_train)
```

[240]: LogisticRegression()

[241]:
```python
logisticreg.score(xVectorTest, y_test)
```

[241]: 0.985116864060371

[242]:
```python
# Logistic Regression prediction
predict = logisticreg.predict(xVectorTest)

# Accuracy score and classification report
acc = accuracy_score(y_test, predict)
print(f"Accuracy of logistic regression: {acc}")
```

```python
print(classification_report(y_test, predict))

# Confusion Matrix
confmat = confusion_matrix(y_test, predict)

# Plot the Confusion Matrix with an improved heatmap
plt.figure(figsize=(8, 6))
ax = sns.heatmap(confmat, annot=True, fmt='g', cmap='Blues', cbar=True,
 ↪linewidths=1, linecolor='black')
ax.set_xlabel('Predicted labels', fontsize=15)
ax.set_ylabel('True labels', fontsize=15)
ax.set_title('Confusion Matrix', fontsize=18)
plt.show()

# ROC Curve
y_prob = logisticreg.predict_proba(xVectorTest)[:, 1]  # Predicted
 ↪probabilities for the positive class
fpr, tpr, _ = roc_curve(y_test, y_prob)
roc_auc = auc(fpr, tpr)

plt.figure(figsize=(8, 6))
plt.plot(fpr, tpr, color='blue', lw=2, label=f'ROC Curve (AUC = {roc_auc:.2f})')
plt.plot([0, 1], [0, 1], color='gray', lw=2, linestyle='--')
plt.xlim([0.0, 1.0])
plt.ylim([0.0, 1.05])
plt.xlabel('False Positive Rate', fontsize=15)
plt.ylabel('True Positive Rate', fontsize=15)
plt.title('Receiver Operating Characteristic (ROC) Curve', fontsize=18)
plt.legend(loc="lower right")
plt.show()

# Precision-Recall Curve
precision, recall, _ = precision_recall_curve(y_test, y_prob)

plt.figure(figsize=(8, 6))
plt.plot(recall, precision, color='green', lw=2)
plt.xlabel('Recall', fontsize=15)
plt.ylabel('Precision', fontsize=15)
plt.title('Precision-Recall Curve', fontsize=18)
plt.show()
```
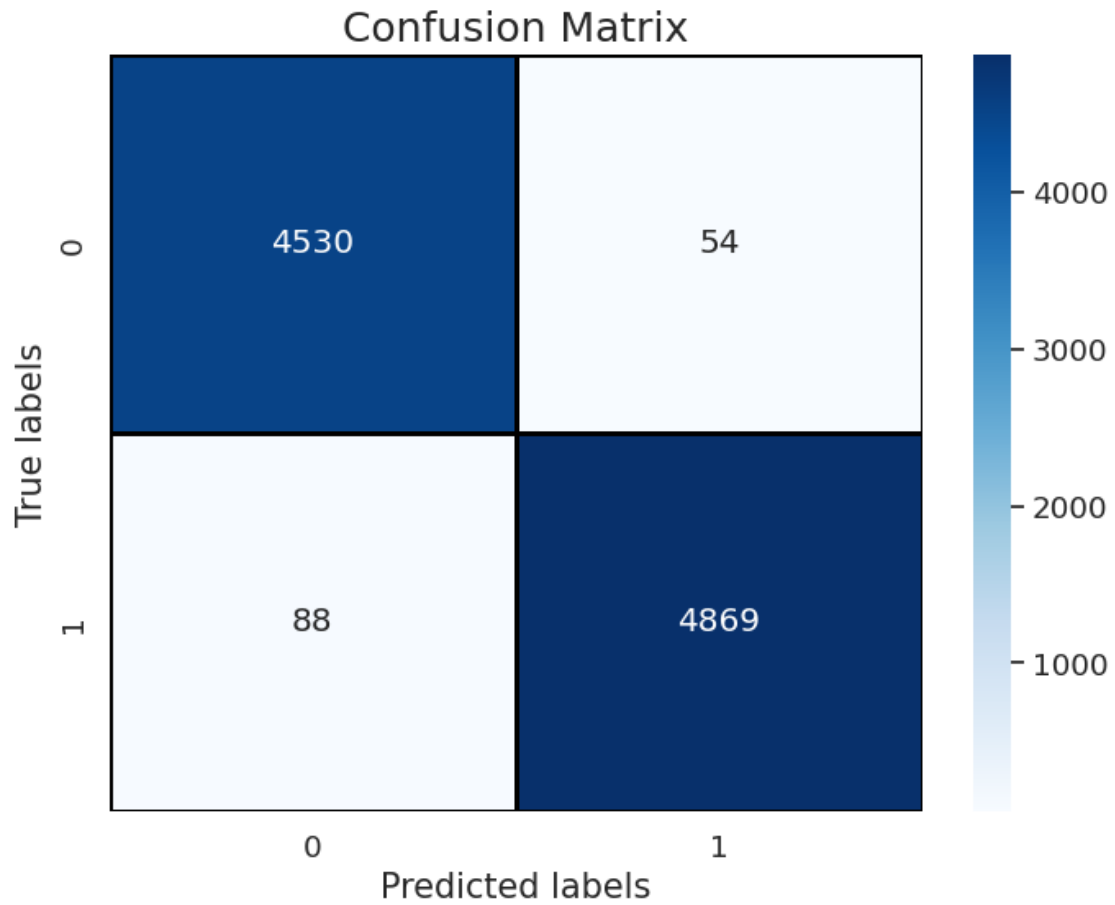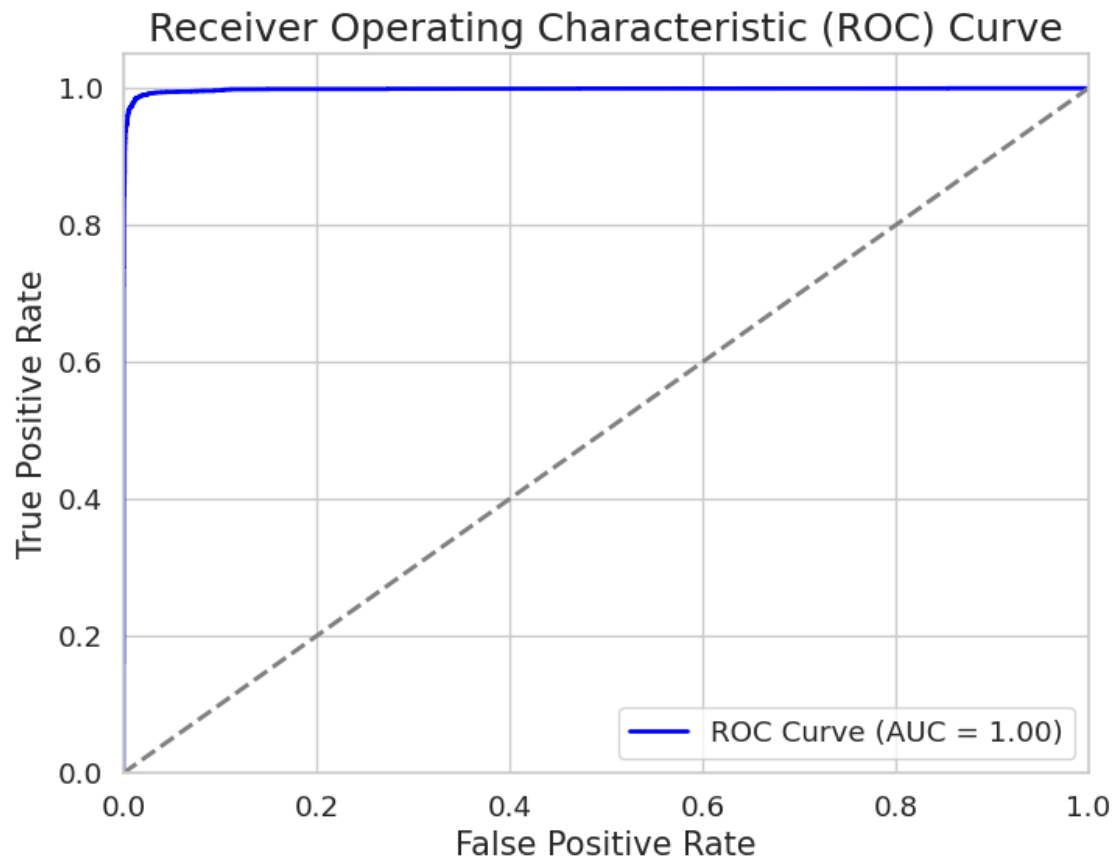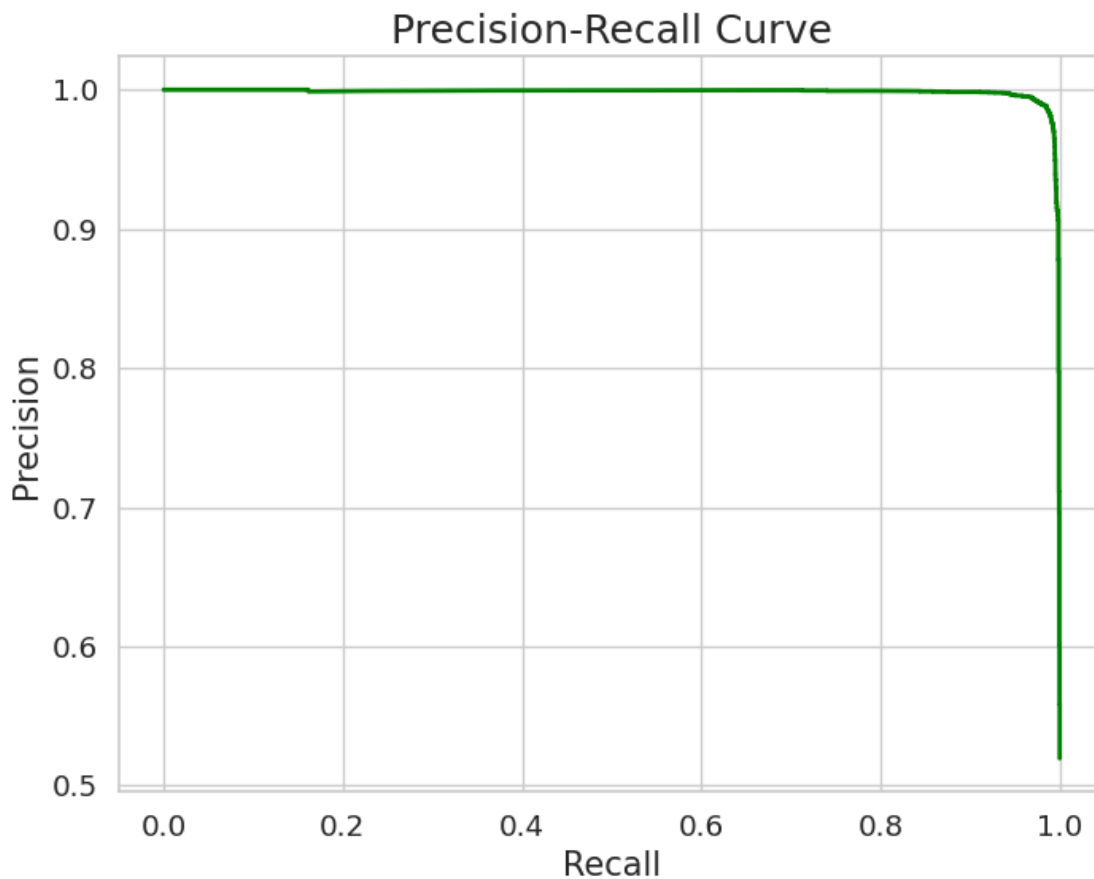
```
Accuracy of logistic regression: 0.985116864060371
              precision    recall  f1-score   support

           0       0.98      0.99      0.98      4584
           1       0.99      0.98      0.99      4957
```

```
       accuracy                            0.99      9541
      macro avg       0.98      0.99       0.99      9541
   weighted avg       0.99      0.99       0.99      9541
```

Confusion Matrix

True labels	Predicted 0	Predicted 1
0	4530	54
1	88	4869

Receiver Operating Characteristic (ROC) Curve

ROC Curve (AUC = 1.00)

Precision-Recall Curve


```
[243]:  # Decision Tree Model
        decision_tree = DecisionTreeClassifier()
        decision_tree.fit(xVectorTrain, y_train)
        decision_tree_predict = decision_tree.predict(xVectorTest)
```

```
[244]:  decision_tree.score(xVectorTest, y_test)
```

```
[244]:  0.9948642699926632
```

```
[245]:  print("Decision tree classifier")
        print(classification_report(y_test, decision_tree_predict))
```

```
Decision tree classifier
              precision    recall  f1-score   support

           0       1.00      0.99      0.99      4584
           1       0.99      1.00      1.00      4957

    accuracy                           0.99      9541
```

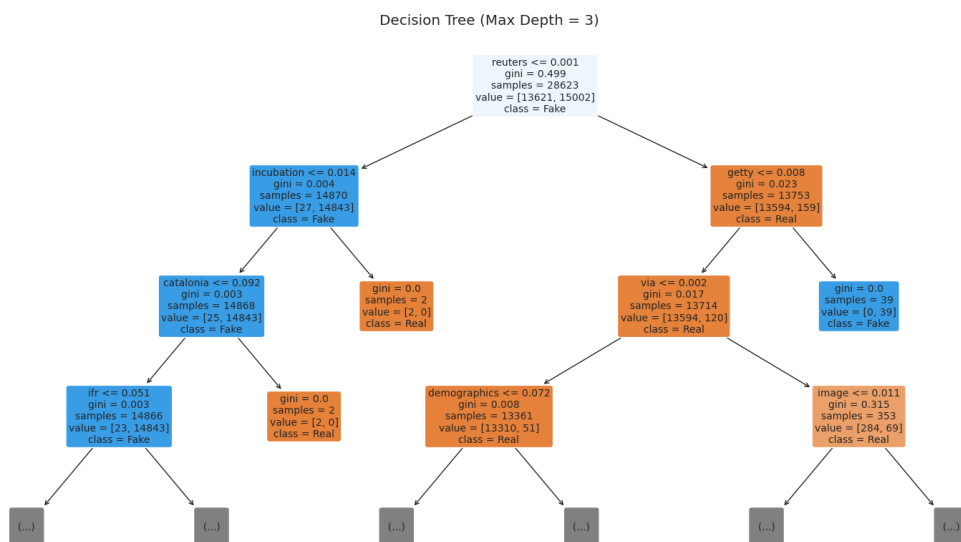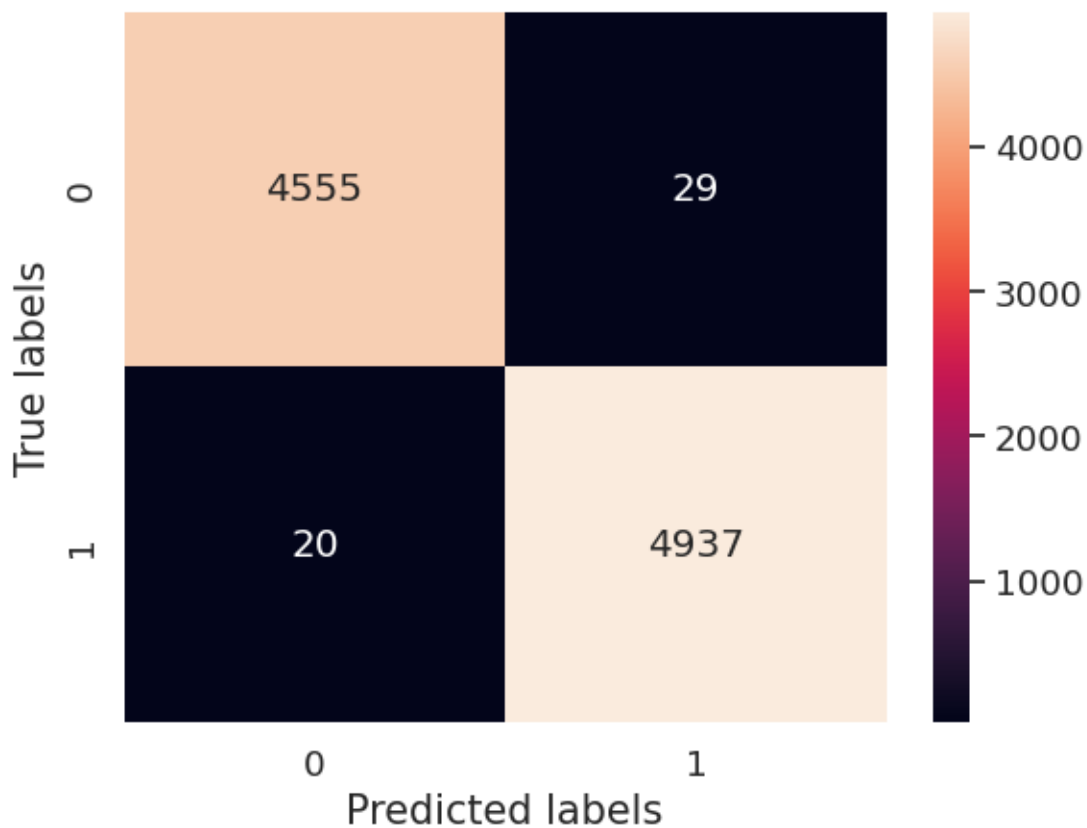|				
macro avg	0.99	0.99	0.99	9541
weighted avg	0.99	0.99	0.99	9541

[246]:
```python
acc = accuracy_score(y_test , decision_tree_predict)
confmat = confusion_matrix(y_test , decision_tree_predict)

print("Accuracy of decision tree:", acc)

# plot the confusion matrix
ax = plt.subplot()
sns.heatmap(confmat,annot=True, fmt='g', ax=ax)
ax.set_xlabel('Predicted labels',fontsize=15)
ax.set_ylabel('True labels',fontsize=15)
plt.show()


# Limit the depth of the tree to improve visualization
plt.figure(figsize=(20, 10))  # Adjust the figure size for readability
tree.plot_tree(decision_tree, max_depth=3, filled=True,
  ↪feature_names=vectorization.get_feature_names_out(), class_names=["Real",
  ↪"Fake"], rounded=True, fontsize=10)
plt.title("Decision Tree (Max Depth = 3)")
plt.show()
```

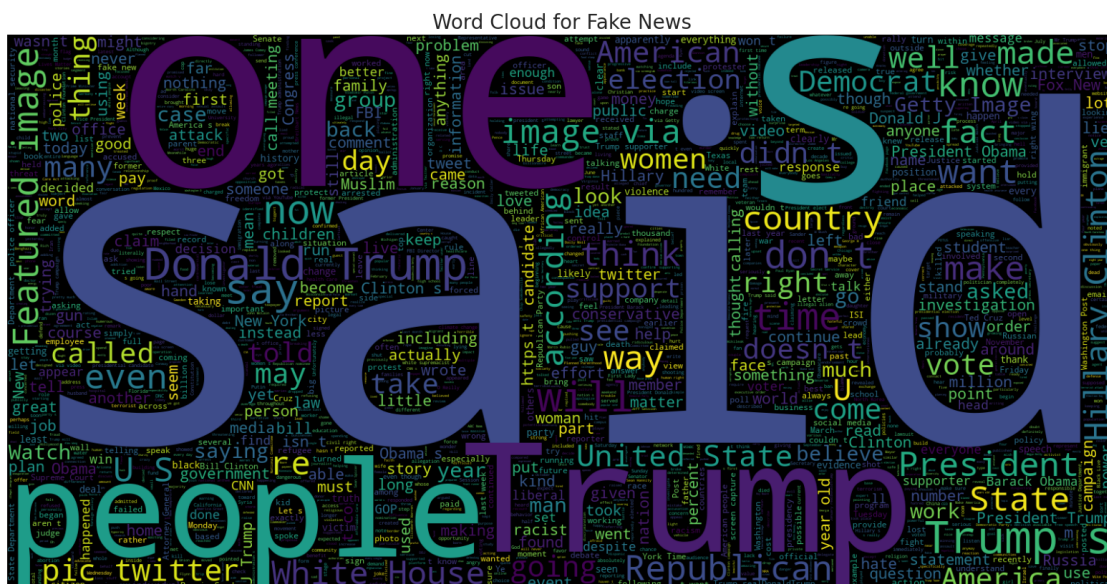Accuracy of decision tree: 0.9948642699926632

True labels — 0: 4555, 29; 1: 20, 4937. Predicted labels 0, 1.

Decision Tree (Max Depth = 3)

reuters <= 0.001
gini = 0.499
samples = 28623
value = [13621, 15002]
class = Fake

incubation <= 0.014
gini = 0.004
samples = 14870
value = [27, 14843]
class = Fake

getty <= 0.008
gini = 0.023
samples = 13753
value = [13594, 159]
class = Real

catalonia <= 0.092
gini = 0.003
samples = 14868
value = [25, 14843]
class = Fake

gini = 0.0
samples = 2
value = [2, 0]
class = Real

via <= 0.002
gini = 0.017
samples = 13714
value = [13594, 120]
class = Real

gini = 0.0
samples = 39
value = [0, 39]
class = Fake

ifr <= 0.051
gini = 0.003
samples = 14866
value = [23, 14843]
class = Fake

gini = 0.0
samples = 2
value = [2, 0]
class = Real

demographics <= 0.072
gini = 0.008
samples = 13361
value = [13310, 51]
class = Real

image <= 0.011
gini = 0.315
samples = 353
value = [284, 69]
class = Real

(...) (...) (...) (...) (...) (...)

```
[247]:  #generating a wordcloud for visualizing

        def generate_wordcloud(dataframe, label, title):
            """
            Generate and display a word cloud based on the given DataFrame and label.

            Parameters:
            dataframe: pd.DataFrame - The DataFrame to use.
            label: int - The label (0 or 1) to filter the 'News_classifier' column.
            title: str - The title for the word cloud (e.g., 'Fake News' or 'Real
         ↪News').
            """
            plt.figure(figsize=(20, 20))  # Set the figure size
            wc = WordCloud(max_words=2000, width=1600, height=800, stopwords=STOPWORDS).
         ↪generate(
                " ".join(dataframe[dataframe.News_classifier == label].text)
            )
            plt.imshow(wc, interpolation='bilinear')  # Display the word cloud
            plt.title(title, fontsize=20)  # Set the title for the word cloud
            plt.axis('off')  # Hide the axis
            plt.show()

        # Generate the word clouds for fake news and real news
        generate_wordcloud(new_dataframe, 1, "Word Cloud for Fake News")
        generate_wordcloud(new_dataframe, 0, "Word Cloud for Real News")
```
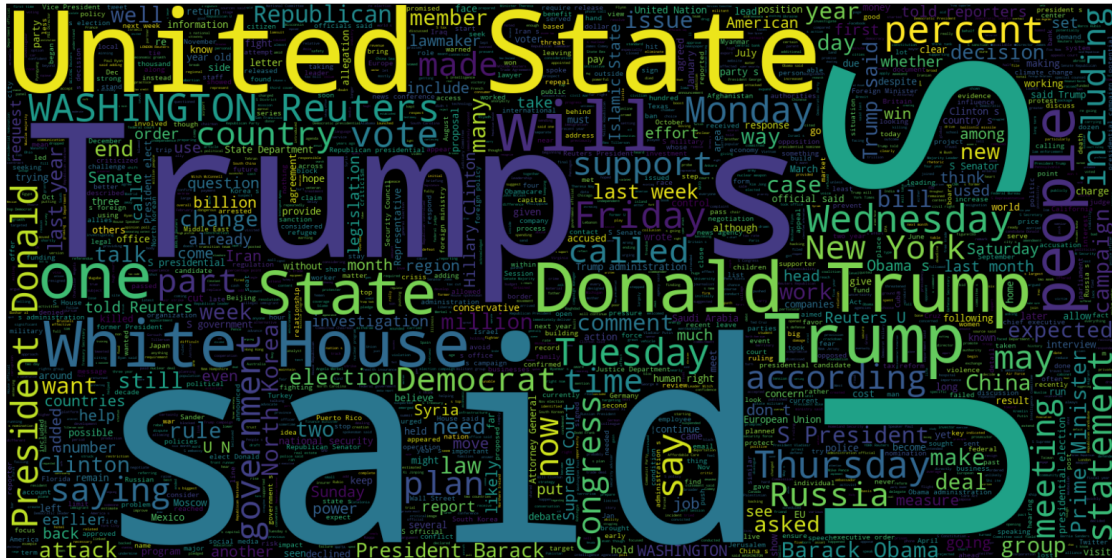
Word Cloud for Fake News

Word Cloud for Real News

[248]:
```python
#Generate also a bubblechart for visualizing

def generate_bubble_chart(dataframe, label, title):
    """
    Generate and display a bubble chart based on the word frequencies in the
 ↪given DataFrame.

    Parameters:
    dataframe: pd.DataFrame - The DataFrame to use.
    label: int - The label (0 or 1) to filter the 'News_classifier' column.
    title: str - The title for the bubble chart.
    """
    # Tokenize the words and count their frequencies
    words = " ".join(dataframe[dataframe.News_classifier == label].text).split()
    word_counts = Counter(words)

    # Convert the counts to a DataFrame
    word_freq_df = pd.DataFrame(word_counts.items(), columns=["Word",
 ↪"Frequency"])

    # Select the top 30 most common words for the bubble chart
    top_words = word_freq_df.nlargest(30, 'Frequency')

    # Create the bubble chart
    plt.figure(figsize=(15, 10))
    sns.scatterplot(data=top_words, x="Word", y="Frequency", size="Frequency",
 ↪sizes=(100, 2000), legend=False, alpha=0.7)
```
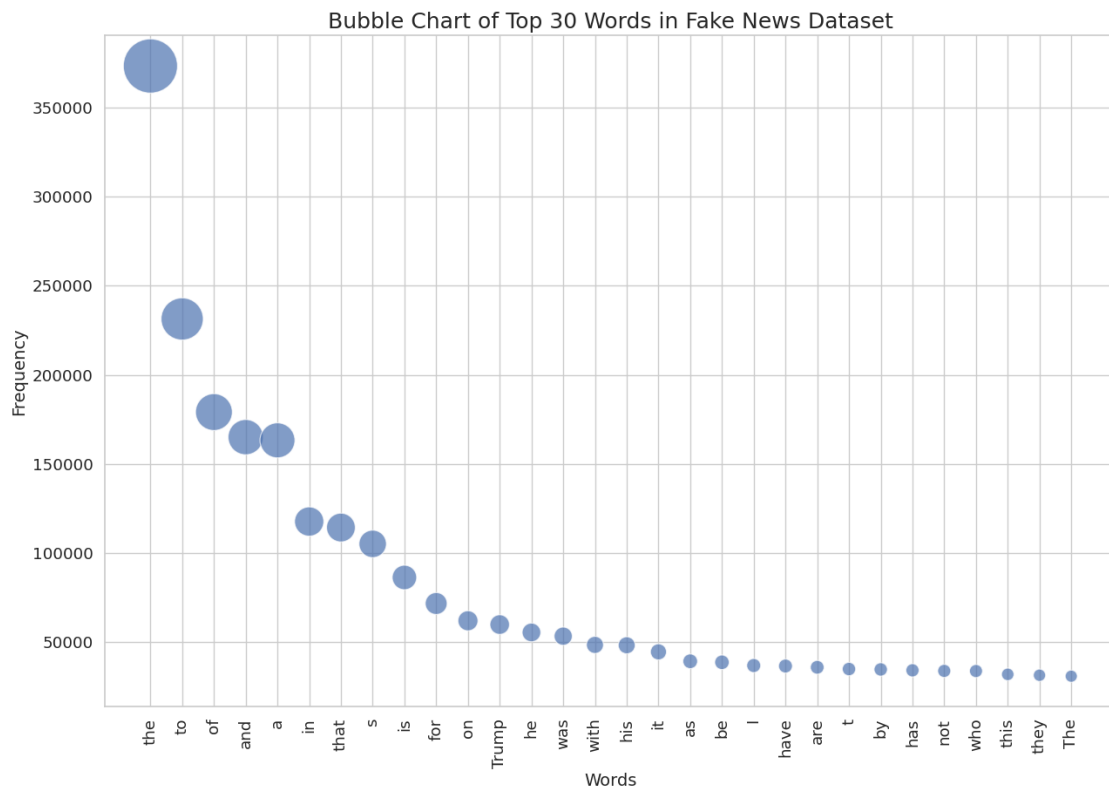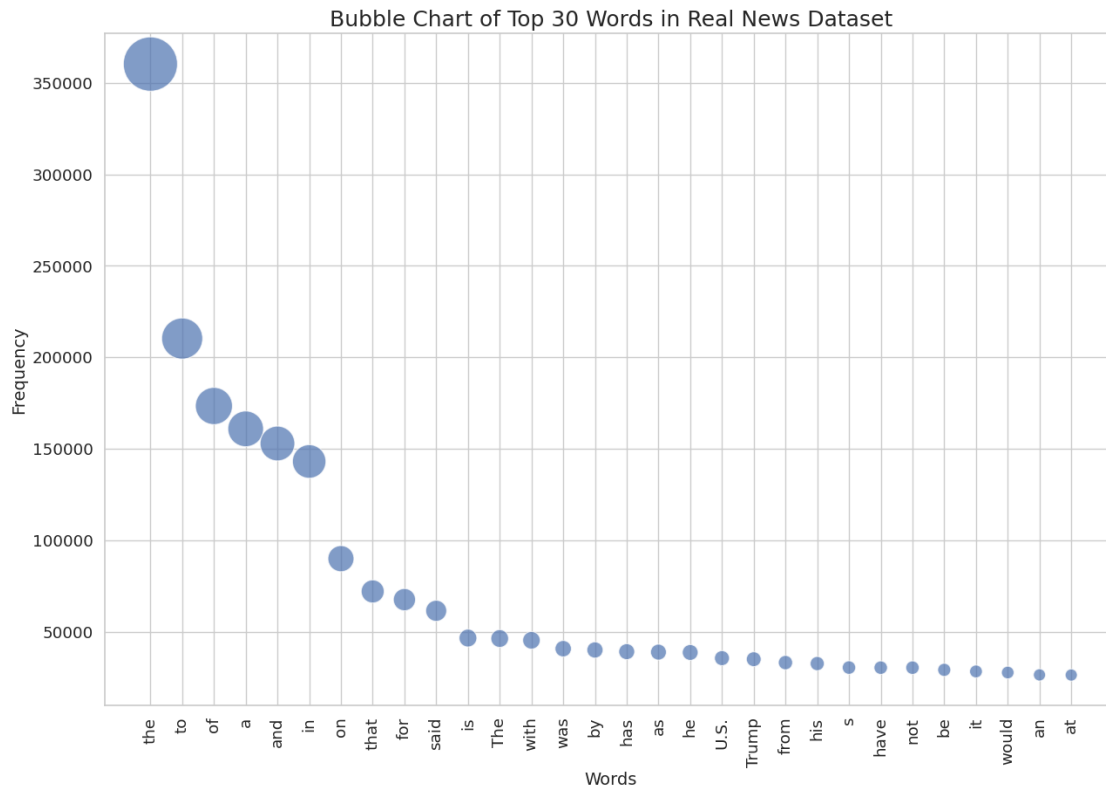
```python
    # Customize the plot
    plt.xticks(rotation=90)   # Rotate the x labels for better readability
    plt.title(title, fontsize=18)
    plt.xlabel("Words", fontsize=14)
    plt.ylabel("Frequency", fontsize=14)
    plt.show()

# Generate bubble chart for Fake News
generate_bubble_chart(new_dataframe, 1, "Bubble Chart of Top 30 Words in Fake␣
  ↪News Dataset")

# Generate bubble chart for Real News
generate_bubble_chart(new_dataframe, 0, "Bubble Chart of Top 30 Words in Real␣
  ↪News Dataset")
```

Bubble Chart of Top 30 Words in Fake News Dataset

Bubble Chart of Top 30 Words in Real News Dataset


```
[249]:  ## Manual Testing Function for Logistic Regression and Decision Tree

        def get_prediction_label(n):
            if n == 0:
                return "This is Real news"
            elif n == 1:
                return "This is Fake news"

        def manual_news_testing(news):
            # Create a DataFrame for the input news
            news_to_test = {"text": [news]}
            news_df = pd.DataFrame(news_to_test)

            # Apply text preprocessing
            news_df["text"] = news_df["text"].apply(textprocessor)  # Assuming␣
         ↪'wordopt' is a preprocessing function

            # Transform the text into vectorized format
            news_vectorized = vectorization.transform(news_df["text"])

            # Make predictions with both Logistic Regression and Decision Tree
            pred_logistic_regression = logisticreg.predict(news_vectorized)
```

```python
    pred_decision_tree = decision_tree.predict(news_vectorized)

    # Print results in a more structured way
    print("\nLogistic Regression Prediction: {} ".
 ↪format(get_prediction_label(pred_logistic_regression[0])))
    print("Decision Tree Prediction: {} ".
 ↪format(get_prediction_label(pred_decision_tree[0])))

# Example Usage
# manual_news_testing("Your news text here")
```

```
[250]: #Testing with a real news from testing data(true_news_test_data.csv) to check␣
       ↪if it can actually determine if it is fake or real

       print("WASHINGTON (Reuters) - Pakistan s foreign minister on Thursday described␣
        ↪as  hollow allegations  comments by senior U.S. officials and lawmakers␣
        ↪during his visit to Washington this week that questioned Islamabad s resolve␣
        ↪in fighting militancy.    President Donald Trump s administration is␣
        ↪seeking to implement its regional strategy. While U.S. officials have long␣
        ↪been critical of the role Pakistan has played in Afghanistan, senior␣
        ↪officials have been more pointed in recent days about Islamabad s alleged␣
        ↪support for militant groups. Earlier this week, U.S. Defense Secretary Jim␣
        ↪Mattis said the United States would try  one more time  to work with␣
        ↪Pakistan in Afghanistan before Trump would  take whatever steps are␣
        ↪necessary  to change Pakistan s behavior. On Tuesday, the top U.S. military␣
        ↪officer said he believed Pakistan s main spy agency, the Inter-Services␣
        ↪Intelligence (ISI) directorate, had ties to the militant group.  You want us␣
        ↪to sniff them out, we will do that. You want us to take action against them,␣
        ↪whatever action you propose, we will do that... (but) these hollow␣
        ↪allegations are not acceptable,  Pakistan s Foreign Minister Khawaja Asif␣
        ↪told a group of reporters. In August, Trump outlined a new strategy for the␣
        ↪war in Afghanistan, chastising Pakistan over its alleged support for Afghan␣
        ↪militants. Reuters first reported that possible Trump administration␣
        ↪responses being discussed include expanding U.S. drone strikes and perhaps␣
        ↪eventually downgrading Pakistan s status as a major non-NATO ally. Asif␣
        ↪singled out Senator John McCain, chairman of the Senate Armed Service␣
        ↪Committee, saying the senator was  playing to his constituents  when he␣
        ↪criticized Pakistan.   We are not saying we are saints. Perhaps in the past,␣
        ↪we made some mistakes. But since the last three, four years, we are␣
        ↪wholeheartedly, single mindedly, we are targeting these terrorists,  Asif␣
        ↪said. Asif said that Pakistan had less influence over the Taliban than in␣
        ↪previous years, which could impact any efforts for peace talks to bring an␣
        ↪end to the war in Afghanistan.  He added that U.S. Secretary of State Rex␣
        ↪Tillerson would be visiting Pakistan later this month. ")
```

```
true_news_testing1=str("WASHINGTON (Reuters) - Pakistan s foreign minister on␣
 ↪Thursday described as  hollow allegations  comments by senior U.S. officials␣
 ↪and lawmakers during his visit to Washington this week that questioned␣
 ↪Islamabad s resolve in fighting militancy.    President Donald Trump s␣
 ↪administration is seeking to implement its regional strategy. While U.S.␣
 ↪officials have long been critical of the role Pakistan has played in␣
 ↪Afghanistan, senior officials have been more pointed in recent days about␣
 ↪Islamabad s alleged support for militant groups. Earlier this week, U.S.␣
 ↪Defense Secretary Jim Mattis said the United States would try  one more time␣
 ↪ to work with Pakistan in Afghanistan before Trump would  take whatever␣
 ↪steps are necessary  to change Pakistan s behavior. On Tuesday, the top U.S.␣
 ↪military officer said he believed Pakistan s main spy agency, the␣
 ↪Inter-Services Intelligence (ISI) directorate, had ties to the militant␣
 ↪group.  You want us to sniff them out, we will do that. You want us to take␣
 ↪action against them, whatever action you propose, we will do that... (but)␣
 ↪these hollow allegations are not acceptable,  Pakistan s Foreign Minister␣
 ↪Khawaja Asif told a group of reporters. In August, Trump outlined a new␣
 ↪strategy for the war in Afghanistan, chastising Pakistan over its alleged␣
 ↪support for Afghan militants. Reuters first reported that possible Trump␣
 ↪administration responses being discussed include expanding U.S. drone␣
 ↪strikes and perhaps eventually downgrading Pakistan s status as a major␣
 ↪non-NATO ally. Asif singled out Senator John McCain, chairman of the Senate␣
 ↪Armed Service Committee, saying the senator was  playing to his constituents␣
 ↪ when he criticized Pakistan.   We are not saying we are saints. Perhaps in␣
 ↪the past, we made some mistakes. But since the last three, four years, we␣
 ↪are wholeheartedly, single mindedly, we are targeting these terrorists, ␣
 ↪Asif said. Asif said that Pakistan had less influence over the Taliban than␣
 ↪in previous years, which could impact any efforts for peace talks to bring␣
 ↪an end to the war in Afghanistan.  He added that U.S. Secretary of State Rex␣
 ↪Tillerson would be visiting Pakistan later this month. ")
manual_news_testing(true_news_testing1)
```

WASHINGTON (Reuters) - Pakistan s foreign minister on Thursday described as
hollow allegations comments by senior U.S. officials and lawmakers during his
visit to Washington this week that questioned Islamabad s resolve in fighting
militancy.   President Donald Trump s administration is seeking to implement
its regional strategy. While U.S. officials have long been critical of the role
Pakistan has played in Afghanistan, senior officials have been more pointed in
recent days about Islamabad s alleged support for militant groups. Earlier this
week, U.S. Defense Secretary Jim Mattis said the United States would try one
more time to work with Pakistan in Afghanistan before Trump would take
whatever steps are necessary to change Pakistan s behavior. On Tuesday, the top
U.S. military officer said he believed Pakistan s main spy agency, the Inter-
Services Intelligence (ISI) directorate, had ties to the militant group. You
want us to sniff them out, we will do that. You want us to take action against
them, whatever action you propose, we will do that… (but) these hollow
allegations are not acceptable, Pakistan s Foreign Minister Khawaja Asif told a
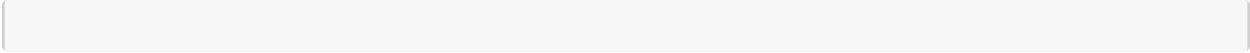
group of reporters. In August, Trump outlined a new strategy for the war in Afghanistan, chastising Pakistan over its alleged support for Afghan militants. Reuters first reported that possible Trump administration responses being discussed include expanding U.S. drone strikes and perhaps eventually downgrading Pakistan s status as a major non-NATO ally. Asif singled out Senator John McCain, chairman of the Senate Armed Service Committee, saying the senator was playing to his constituents when he criticized Pakistan. We are not saying we are saints. Perhaps in the past, we made some mistakes. But since the last three, four years, we are wholeheartedly, single mindedly, we are targeting these terrorists, Asif said. Asif said that Pakistan had less influence over the Taliban than in previous years, which could impact any efforts for peace talks to bring an end to the war in Afghanistan. He added that U.S. Secretary of State Rex Tillerson would be visiting Pakistan later this month.

Logistic Regression Prediction: This is Real news
Decision Tree Prediction: This is Real news

[251]: *##Testing with a real news from testing data(true_news_test_data.csv) to check␣ ↪if it can actually determine if it is fake or real*

```python
print("ROME (Reuters) - Hacking attacks on the web platform used by Italy s
5-Star Movement to select representatives and shape policy threaten to dent
confidence in its methods before a parliamentary election it is well placed
to win. Internet-based direct democracy, in which members vote online, is a
hallmark of the anti-establishment group that first entered parliament in
2013 and leads many opinion polls before the election, due to be held by May.
 Gianroberto Casaleggio, the late internet guru who co-founded 5-Star in
2009, believed the web would eventually supplant representative democracy,
the system under which all eligible citizens vote on representatives to pass
laws for them. But in August anonymous hackers broke into 5-Star s web
platform, called  Rousseau  after the 18th century Swiss-born philosopher,
and obtained secret data on its members and donors. It is unclear whether
there will be any impact on 5-Star s election performance. But if it cannot
secure its web platforms, it will be hard to continue using the online
methods that set it apart from other political groups.  Public worries over
theft of personal data could also make it difficult for 5-Star to attract
new members. It already has only a modest membership although it has won
millions of votes at the polls with promises to clean up politics and offer
universal income support for the poor.  The hacking problem is very serious
for 5-Star because it undermines the credibility of their direct democracy
message,  sociology professor Luca Ricolfi told Reuters.  It will probably
be overshadowed by bigger issues ahead of the election, but it hurts their
image and is something they will absolutely have to resolve.  Casaleggio
Associati, a web consultancy company that runs 5-Star s platforms and is
headed by Gianroberto s son Davide, said security would be improved before
the online election of the movement s new leader last month. Despite this,
the election was dogged by hacking attacks which hampered voting and
contributed to only 37,000 of 5-Star s 140,000 members casting an online
ballot. The voting deadline had to be extended twice as members were unable
to log on or connect to necessary web pages.  One hacker published
screenshots showing the system had been infiltrated again and that it had
been possible to vote several times using the accounts of certified 5-Star
members.  Rousseau s content systems are outdated and its level of security
is totally inadequate,  said David Puente, a computer expert and web
developer who worked for Casaleggio Associati for four-and-a-half years
until 2011. Umberto Rapetto, a cyber security expert who used to head the
computer crime division of Italy s finance police, called Rousseau  a
rudimentary platform with a host of weak points . Davide Casaleggio declined
to answer questions for this article. Puente, a 5-Star member, said it would
now be hard to update Rousseau without sacrificing many functions that have
been added recently, meaning the only solution was to  dismantle everything
and start all over again.  That would not be easy even if Casaleggio agreed.
```

```python
true_news_testing2=str("ROME (Reuters) - Hacking attacks on the web platform
↪used by Italy s 5-Star Movement to select representatives and shape policy
↪threaten to dent confidence in its methods before a parliamentary election
↪it is well placed to win. Internet-based direct democracy, in which members
↪vote online, is a hallmark of the anti-establishment group that first
↪entered parliament in 2013 and leads many opinion polls before the election,
↪due to be held by May.  Gianroberto Casaleggio, the late internet guru who
↪co-founded 5-Star in 2009, believed the web would eventually supplant
↪representative democracy, the system under which all eligible citizens vote
↪on representatives to pass laws for them. But in August anonymous hackers
↪broke into 5-Star s web platform, called  Rousseau  after the 18th century
↪Swiss-born philosopher, and obtained secret data on its members and donors.
↪It is unclear whether there will be any impact on 5-Star s election
↪performance. But if it cannot secure its web platforms, it will be hard to
↪continue using the online methods that set it apart from other political
↪groups.  Public worries over theft of personal data could also make it
↪difficult for 5-Star to attract new members. It already has only a modest
↪membership although it has won millions of votes at the polls with promises
↪to clean up politics and offer universal income support for the poor.  The
↪hacking problem is very serious for 5-Star because it undermines the
↪credibility of their direct democracy message,  sociology professor Luca
↪Ricolfi told Reuters.  It will probably be overshadowed by bigger issues
↪ahead of the election, but it hurts their image and is something they will
↪absolutely have to resolve.  Casaleggio Associati, a web consultancy company
↪that runs 5-Star s platforms and is headed by Gianroberto s son Davide, said
↪security would be improved before the online election of the movement s new
↪leader last month. Despite this, the election was dogged by hacking attacks
↪which hampered voting and contributed to only 37,000 of 5-Star s 140,000
↪members casting an online ballot. The voting deadline had to be extended
↪twice as members were unable to log on or connect to necessary web pages.
↪One hacker published screenshots showing the system had been infiltrated
↪again and that it had been possible to vote several times using the accounts
↪of certified 5-Star members.  Rousseau s content systems are outdated and
↪its level of security is totally inadequate,  said David Puente, a computer
↪expert and web developer who worked for Casaleggio Associati for
↪four-and-a-half years until 2011. Umberto Rapetto, a cyber security expert
↪who used to head the computer crime division of Italy s finance police,
↪called Rousseau  a rudimentary platform with a host of weak points . Davide
↪Casaleggio declined to answer questions for this article. Puente, a 5-Star
↪member, said it would now be hard to update Rousseau without sacrificing
↪many functions that have been added recently, meaning the only solution was
```

`manual_news_testing(true_news_testing2)`

ROME (Reuters) - Hacking attacks on the web platform used by Italy s 5-Star Movement to select representatives and shape policy threaten to dent confidence in its methods before a parliamentary election it is well placed to win. Internet-based direct democracy, in which members vote online, is a hallmark of the anti-establishment group that first entered parliament in 2013 and leads many opinion polls before the election, due to be held by May. Gianroberto Casaleggio, the late internet guru who co-founded 5-Star in 2009, believed the web would eventually supplant representative democracy, the system under which all eligible citizens vote on representatives to pass laws for them. But in August anonymous hackers broke into 5-Star s web platform, called Rousseau after the 18th century Swiss-born philosopher, and obtained secret data on its members and donors. It is unclear whether there will be any impact on 5-Star s election performance. But if it cannot secure its web platforms, it will be hard to continue using the online methods that set it apart from other political groups. Public worries over theft of personal data could also make it difficult for 5-Star to attract new members. It already has only a modest membership although it has won millions of votes at the polls with promises to clean up politics and offer universal income support for the poor. The hacking problem is very serious for 5-Star because it undermines the credibility of their direct democracy message, sociology professor Luca Ricolfi told Reuters. It will probably be overshadowed by bigger issues ahead of the election, but it hurts their image and is something they will absolutely have to resolve. Casaleggio Associati, a web consultancy company that runs 5-Star s platforms and is headed by Gianroberto s son Davide, said security would be improved before the online election of the movement s new leader last month. Despite this, the election was dogged by hacking attacks which hampered voting and contributed to only 37,000 of 5-Star s 140,000 members casting an online ballot. The voting deadline had to be extended twice as members were unable to log on or connect to necessary web pages. One hacker published screenshots showing the system had been infiltrated again and that it had been possible to vote several times using the accounts of certified 5-Star members. Rousseau s content systems are outdated and its level of security is totally inadequate, said David Puente, a computer expert and web developer who worked for Casaleggio Associati for four-and-a-half years until 2011. Umberto Rapetto, a cyber security expert who used to head the computer crime division of Italy s finance police, called Rousseau a rudimentary platform with a host of weak points . Davide Casaleggio declined to answer questions for this article. Puente, a 5-Star member, said it would now be hard to update Rousseau without sacrificing many functions that have been added recently, meaning the only solution was to dismantle everything and start all over again. That would not be easy even if Casaleggio agreed. Hackers around the world have regularly penetrated the computer systems of public agencies and multinational companies with millions of euros to spend on cyber security. Casaleggio Associati has fewer than 20 employees, posted revenues of less than a million euros in 2016 and has run a loss for the last three years. 5-Star s new leader, 31-year-old Luigi Di Maio, says Rousseau s problems are understandable

as it is a startup launched only last year. He says web-based democracy can
work not only in 5-Star but in all branches of Italian politics. Yet many
computer experts are skeptical about both Rousseau and internet democracy in
general. One common criticism is a lack of transparency, as in only two of
5-Star s dozens of online votes has Casaleggio named an independent company to
verify the regularity of the process. Critics also say there can be no guarantee
that voters are anonymous to platform managers, or that the voter casts only one
ballot or is not watched or coerced while he votes. Creating a structure that
offers the same guarantees as paper ballots would be incredibly difficult, said
cyber security strategist Corrado Giustozzi, a member of the European Union
Agency for Network and Information Security.

Logistic Regression Prediction: This is Real news
Decision Tree Prediction: This is Real news

[252]: *#Testing with a real news from testing data(true_news_test_data.csv) to check*␣
       ↪if it can actually determine if it is fake or real

```python
print("BRUSSELS (Reuters) - The European Commission on Wednesday stepped up␣
↪legal action against Hungary over restrictions on foreign funding likely to␣
↪affect civil society groups funded by the billionaire investor George Soros.␣
↪The EU executive believes the law, passed in June, violates the right to␣
↪freedom of association and to protection of private life and personal data␣
↪enshrined in the EU s Charter of Fundamental Rights, as well as breaching␣
↪the principle of free movement of capital. Hungary s right-wing prime␣
↪minister, Viktor Orban, has long criticized organizations funded by the␣
↪Hungarian-born Soros, accusing them of working as paid activists advocating␣
↪Soros s political goals, notably by opposing Orban s tough immigration␣
↪policy. When Soros in June praised the  courageous way Hungarians have␣
↪resisted the deception and corruption of the mafia state Orban has␣
↪established , Orban called it a  declaration of war , and accused Soros of␣
↪running a mafia-like network. The Commission expressed its concerns over the␣
↪law on non-governmental organizations (NGOs) to Budapest in July, the latest␣
↪in a long line of grievances about what Brussels and many member states see␣
↪as a track record of flouting fundamental EU values.  Having carefully␣
↪analyzed the explanations put forward by Hungary, the European Commission␣
↪concludes that its serious concerns have not been addressed,  it said in␣
↪Wednesday s statement. The Commission s next step in the  infringement␣
↪procedure  is to issue a so-called reasoned opinion, giving Hungary one␣
↪month to take the requested measures.  If Hungary fails to reply␣
↪satisfactorily to the reasoned opinion, then the Commission may refer the␣
↪case to the Court of Justice of the EU,  the statement said. The Commission␣
↪has already issued a similar ultimatum to Hungary over an education law that␣
↪Brussels says infringes academic freedom and could result in the closure of␣
↪a Budapest university founded by Soros. Since coming to power in 2010, Orban␣
↪has eliminated checks on his power by taking control of much of Hungary s␣
↪media, curbing the powers of the constitutional court and placing loyalists␣
↪in top positions at public institutions. While Brussels can open cases␣
↪against EU states violating common rules, they are lengthy and often have␣
↪little impact. That means the EU executive has little leverage over Orban,␣
↪who has been in office since 2010 and faces an election next year. ")
```

```
true_news_testing3=str("BRUSSELS (Reuters) - The European Commission on␣
 ↪Wednesday stepped up legal action against Hungary over restrictions on␣
 ↪foreign funding likely to affect civil society groups funded by the␣
 ↪billionaire investor George Soros. The EU executive believes the law, passed␣
 ↪in June, violates the right to freedom of association and to protection of␣
 ↪private life and personal data enshrined in the EU s Charter of Fundamental␣
 ↪Rights, as well as breaching the principle of free movement of capital.␣
 ↪Hungary s right-wing prime minister, Viktor Orban, has long criticized␣
 ↪organizations funded by the Hungarian-born Soros, accusing them of working␣
 ↪as paid activists advocating Soros s political goals, notably by opposing␣
 ↪Orban s tough immigration policy. When Soros in June praised the  courageous␣
 ↪way Hungarians have resisted the deception and corruption of the mafia state␣
 ↪Orban has established , Orban called it a  declaration of war , and accused␣
 ↪Soros of running a mafia-like network. The Commission expressed its concerns␣
 ↪over the law on non-governmental organizations (NGOs) to Budapest in July,␣
 ↪the latest in a long line of grievances about what Brussels and many member␣
 ↪states see as a track record of flouting fundamental EU values.  Having␣
 ↪carefully analyzed the explanations put forward by Hungary, the European␣
 ↪Commission concludes that its serious concerns have not been addressed,  it␣
 ↪said in Wednesday s statement. The Commission s next step in the ␣
 ↪infringement procedure  is to issue a so-called reasoned opinion, giving␣
 ↪Hungary one month to take the requested measures.  If Hungary fails to reply␣
 ↪satisfactorily to the reasoned opinion, then the Commission may refer the␣
 ↪case to the Court of Justice of the EU,  the statement said. The Commission␣
 ↪has already issued a similar ultimatum to Hungary over an education law that␣
 ↪Brussels says infringes academic freedom and could result in the closure of␣
 ↪a Budapest university founded by Soros. Since coming to power in 2010, Orban␣
 ↪has eliminated checks on his power by taking control of much of Hungary s␣
 ↪media, curbing the powers of the constitutional court and placing loyalists␣
 ↪in top positions at public institutions. While Brussels can open cases␣
 ↪against EU states violating common rules, they are lengthy and often have␣
 ↪little impact. That means the EU executive has little leverage over Orban,␣
 ↪who has been in office since 2010 and faces an election next year. ")
manual_news_testing(true_news_testing3)
```

BRUSSELS (Reuters) - The European Commission on Wednesday stepped up legal
action against Hungary over restrictions on foreign funding likely to affect
civil society groups funded by the billionaire investor George Soros. The EU
executive believes the law, passed in June, violates the right to freedom of
association and to protection of private life and personal data enshrined in the
EU s Charter of Fundamental Rights, as well as breaching the principle of free
movement of capital. Hungary s right-wing prime minister, Viktor Orban, has long
criticized organizations funded by the Hungarian-born Soros, accusing them of
working as paid activists advocating Soros s political goals, notably by
opposing Orban s tough immigration policy. When Soros in June praised the
courageous way Hungarians have resisted the deception and corruption of the
mafia state Orban has established , Orban called it a declaration of war , and

accused Soros of running a mafia-like network. The Commission expressed its concerns over the law on non-governmental organizations (NGOs) to Budapest in July, the latest in a long line of grievances about what Brussels and many member states see as a track record of flouting fundamental EU values. Having carefully analyzed the explanations put forward by Hungary, the European Commission concludes that its serious concerns have not been addressed, it said in Wednesday s statement. The Commission s next step in the infringement procedure is to issue a so-called reasoned opinion, giving Hungary one month to take the requested measures. If Hungary fails to reply satisfactorily to the reasoned opinion, then the Commission may refer the case to the Court of Justice of the EU, the statement said. The Commission has already issued a similar ultimatum to Hungary over an education law that Brussels says infringes academic freedom and could result in the closure of a Budapest university founded by Soros. Since coming to power in 2010, Orban has eliminated checks on his power by taking control of much of Hungary s media, curbing the powers of the constitutional court and placing loyalists in top positions at public institutions. While Brussels can open cases against EU states violating common rules, they are lengthy and often have little impact. That means the EU executive has little leverage over Orban, who has been in office since 2010 and faces an election next year.

Logistic Regression Prediction: This is Real news
Decision Tree Prediction: This is Real news

[253]: #Testing with a real news from testing data(true_news_test_data.csv) to check
↪if it can actually determine if it is fake or real

```
print("(Reuters) - An opposition leader who said she fled Cambodia in fear of
↪arrest called on Western donors on Wednesday to impose targeted sanctions on
↪Prime Minister Hun Sen s government to save democracy in the Southeast Asian
↪nation. Mu Sochua, 63, left Cambodia on Tuesday, saying she had been tipped
↪off that she was among the next targets of a crackdown in which opposition
↪Cambodia National Rescue Party (CNRP) leader Kem Sokha was arrested a month
↪ago and charged with treason. Elections are due next year and the opposition
↪party has accused Hun Sen, 65, of arresting and harassing its leaders and
↪other critics so he can extend over 30 years in power.  The time for
↪statements has passed. It s time for sanctions, targeted sanctions. Also
↪suspension of technical aid to the government of Cambodia,  Mu Sochua told
↪Reuters.  Time is up for democracy. How long can the international community
↪wait?  She was speaking to Reuters in Southeast Asia and requested that the
↪location not be specified because of security concerns. She said last week
↪that around half the CNRP s members of parliament had fled Cambodia. The
↪sanctions could include visa restrictions on top officials, Mu Sochua said,
↪but should not target the exports of garments - mostly to the United States
↪and European Union - on which the livelihoods of hundreds of thousands of
↪Cambodian workers depend. Responding to Mu Sochua s comments, government
↪spokesman Phay Siphan said there was no reason for any country to impose
↪sanctions on Cambodia because it was committed to peace and pluralism and
↪the rule of law.  This is a sovereign state and it will protect its
↪sovereignty,  he said. He said he could not comment on any potential arrests
↪because that would be a matter for the judiciary.        The government
↪accuses the opposition of planning a revolution to oust Hun Sen, whose rule
↪has spanned Cambodia s three-decade transformation from a broken state after
↪the Khmer Rouge genocide to one of the region s fastest growing economies.
↪Hun Sen has called it a  color revolution , similar to movements in parts of
↪the Balkans and the former Soviet Union in the 2000s. Since Kem Sokha s
↪arrest, Mu Sochua had emerged as his most outspoken deputy. She said she
↪grew worried at the weekend after suspected plain clothes police followed
↪her to rallies in the countryside. TIP-OFF Then on Monday, Hun Sen
↪threatened more arrests of opposition leaders. Mu Sochua said a senior
↪government official had sent her a recording of his speech.  I said, is this
↪about me?  He said  yes . I said  Is the arrest going to be this week?  He
↪said  yes ,  said Mu Sochua, who is known internationally for decades of
↪campaigning against sex trafficking and for women s rights. Insurrection
↪charges over which she was detained for seven days in 2014 could easily be
↪brought back, she said. The government has not said it planned to charge her.
↪ Mu Sochua said any international moves against Hun Sen should be aimed at
↪preserving democracy.  When we talk about targeted sanctions we also talk
```

```
true_news_testing4=str("(Reuters) - An opposition leader who said she fled␣
↪Cambodia in fear of arrest called on Western donors on Wednesday to impose␣
↪targeted sanctions on Prime Minister Hun Sen s government to save democracy␣
↪in the Southeast Asian nation. Mu Sochua, 63, left Cambodia on Tuesday,␣
↪saying she had been tipped off that she was among the next targets of a␣
↪crackdown in which opposition Cambodia National Rescue Party (CNRP) leader␣
↪Kem Sokha was arrested a month ago and charged with treason. Elections are␣
↪due next year and the opposition party has accused Hun Sen, 65, of arresting␣
↪and harassing its leaders and other critics so he can extend over 30 years␣
↪in power.  The time for statements has passed. It s time for sanctions,␣
↪targeted sanctions. Also suspension of technical aid to the government of␣
↪Cambodia,  Mu Sochua told Reuters.  Time is up for democracy. How long can␣
↪the international community wait?  She was speaking to Reuters in Southeast␣
↪Asia and requested that the location not be specified because of security␣
↪concerns. She said last week that around half the CNRP s members of␣
↪parliament had fled Cambodia. The sanctions could include visa restrictions␣
↪on top officials, Mu Sochua said, but should not target the exports of␣
↪garments - mostly to the United States and European Union - on which the␣
↪livelihoods of hundreds of thousands of Cambodian workers depend. Responding␣
↪to Mu Sochua s comments, government spokesman Phay Siphan said there was no␣
↪reason for any country to impose sanctions on Cambodia because it was␣
↪committed to peace and pluralism and the rule of law.  This is a sovereign␣
↪state and it will protect its sovereignty,  he said. He said he could not␣
↪comment on any potential arrests because that would be a matter for the␣
↪judiciary.        The government accuses the opposition of planning a␣
↪revolution to oust Hun Sen, whose rule has spanned Cambodia s three-decade␣
↪transformation from a broken state after the Khmer Rouge genocide to one of␣
↪the region s fastest growing economies. Hun Sen has called it a  color␣
↪revolution , similar to movements in parts of the Balkans and the former␣
↪Soviet Union in the 2000s. Since Kem Sokha s arrest, Mu Sochua had emerged␣
↪as his most outspoken deputy. She said she grew worried at the weekend after␣
↪suspected plain clothes police followed her to rallies in the countryside.␣
↪TIP-OFF Then on Monday, Hun Sen threatened more arrests of opposition␣
↪leaders. Mu Sochua said a senior government official had sent her a␣
↪recording of his speech.  I said, is this about me?  He said  yes . I said ␣
↪Is the arrest going to be this week?  He said  yes ,  said Mu Sochua, who is␣
↪known internationally for decades of campaigning against sex trafficking and␣
↪for women s rights. Insurrection charges over which she was detained for␣
↪seven days in 2014 could easily be brought back, she said. The government␣
↪has not said it planned to charge her. Mu Sochua said any international␣
↪moves against Hun Sen should be aimed at preserving democracy.  When we talk␣
```

`manual_news_testing(true_news_testing4)`

(Reuters) - An opposition leader who said she fled Cambodia in fear of arrest called on Western donors on Wednesday to impose targeted sanctions on Prime Minister Hun Sen s government to save democracy in the Southeast Asian nation. Mu Sochua, 63, left Cambodia on Tuesday, saying she had been tipped off that she was among the next targets of a crackdown in which opposition Cambodia National Rescue Party (CNRP) leader Kem Sokha was arrested a month ago and charged with treason. Elections are due next year and the opposition party has accused Hun Sen, 65, of arresting and harassing its leaders and other critics so he can extend over 30 years in power. The time for statements has passed. It s time for sanctions, targeted sanctions. Also suspension of technical aid to the government of Cambodia, Mu Sochua told Reuters. Time is up for democracy. How long can the international community wait? She was speaking to Reuters in Southeast Asia and requested that the location not be specified because of security concerns. She said last week that around half the CNRP s members of parliament had fled Cambodia. The sanctions could include visa restrictions on top officials, Mu Sochua said, but should not target the exports of garments – mostly to the United States and European Union – on which the livelihoods of hundreds of thousands of Cambodian workers depend. Responding to Mu Sochua s comments, government spokesman Phay Siphan said there was no reason for any country to impose sanctions on Cambodia because it was committed to peace and pluralism and the rule of law. This is a sovereign state and it will protect its sovereignty, he said. He said he could not comment on any potential arrests because that would be a matter for the judiciary.   The government accuses the opposition of planning a revolution to oust Hun Sen, whose rule has spanned Cambodia s three-decade transformation from a broken state after the Khmer Rouge genocide to one of the region s fastest growing economies. Hun Sen has called it a color revolution , similar to movements in parts of the Balkans and the former Soviet Union in the 2000s. Since Kem Sokha s arrest, Mu Sochua had emerged as his most outspoken deputy. She said she grew worried at the weekend after suspected plain clothes police followed her to rallies in the countryside. TIP-OFF Then on Monday, Hun Sen threatened more arrests of opposition leaders. Mu Sochua said a senior government official had sent her a recording of his speech. I said, is this about me? He said yes . I said Is the arrest going to be this week? He said yes , said Mu Sochua, who is known internationally for decades of campaigning against sex trafficking and for women s rights. Insurrection charges over which she was detained for seven days in 2014 could easily be brought back, she said. The government has not said it planned to charge her. Mu Sochua said any international moves against Hun Sen should be aimed at preserving democracy. When we talk about targeted sanctions we also talk about giving Mr. Hun Sen time to think and to adjust and to give the opposition, civil society, free media space so that the next 10 months will be time to prepare for elections, she said. Western countries have condemned the arrest of Kem Sokha and the crackdown on non-governmental organizations, civil rights groups and independent media in the country of 16 million people, but they have not taken any concrete steps. What is shocking is how the

international community, especially Cambodia s donors, are essentially giving Hun Sen a free pass at each step of this crackdown, Phil Robertson, Deputy Asia Director, Human Rights Watch, said in a statement. Western donors played an essential part in rebuilding Cambodia after 1991 peace accords to end civil war, but their influence has waned as Cambodia s economy has strengthened and as China has become its most important ally. U.S. Senators John McCain and Dick Durbin introduced a resolution on Tuesday that called on the U.S. State and Treasury Departments to consider putting top Cambodian officials on a list that could stop them visiting the United States. China, by far the biggest donor to Cambodia, has given verbal support to Hun Sen. A former Khmer Rouge commander, he defected from the group and helped to drive it from power in 1979 after the deaths of an estimated 1.7 million people.

Logistic Regression Prediction: This is Real news
Decision Tree Prediction: This is Real news

[254]: #Testing with a real news from testing data(true_news_test_data.csv) to check
       ↪if it can actually determine if it is fake or real

```
print("GAZA (Reuters) - The West Bank-based Palestinian prime minister crossed␣
↪into the Gaza Strip on Monday in a move towards reconciliation between the␣
↪mainstream Fatah party and Hamas, a decade after the Islamist group seized␣
↪the territory in a civil war. Rami al-Hamdallah said at a welcome ceremony␣
↪his unity government would begin assuming control of Gaza s administrative␣
↪affairs, as well as  security responsibilities and responsibility for␣
↪crossings and borders . Hamas, considered a terrorist group by Israel and␣
↪the West, made its dramatic step towards unity last month, disbanding its␣
↪Gaza shadow government, after Egypt, Saudi Arabia and the United Arab␣
↪Emirates imposed an economic boycott on its main donor, Qatar, over alleged␣
↪support of terrorism. Qatar denies the allegation. Under previous␣
↪understandings, some 3,000 Fatah security men would be integrated gradually␣
↪into a Gaza police force overseen by an Interior Ministry headed by␣
↪Hamdallah.  That deployment would still leave Hamas s armed wing   analysts␣
↪say it has at least 25,000 well-equipped fighters   the dominant power in␣
↪the Palestinian enclave of 2 million people.  We return to Gaza in order to␣
↪conclude reconciliation and national unity and end the painful impacts of␣
↪divisions and to rebuild Gaza brick by brick,  said Hamdallah, who is an␣
↪independent. Forces loyal to Palestinian President Mahmoud Abbas lost␣
↪control of Gaza in fighting with Hamas in 2007. Hamas s reversal is the most␣
↪significant step towards Palestinian reconciliation since the unity␣
↪government was formed in 2014. It failed to function in Gaza - where Israel␣
↪and Hamas have fought three wars since 2008 - because of disputes between␣
↪Hamas and Fatah over its responsibilities.  In his first comments after␣
↪Hamdallah and his entourage entered Gaza, Abbas told Egyptian TV station CBC␣
↪in an interview that his sanctions on the enclave would be lifted after the␣
↪unity government takes control.  Everything must be in the hands of the␣
↪Palestinian Authority, it must be the one to control the crossing points (in␣
↪and out of Gaza),  he said, adding that there could be only one regime␣
↪setting laws and enforcing them.  Analysts said narrowing internal divisions␣
↪could help Western-backed Abbas counter Israel s argument that it has no␣
↪negotiating partner for peace with the Palestinians. A Hamas police honor␣
↪guard and hundreds of Palestinians, many of them waving Palestinian flags,␣
↪awaited Hamdallah outside the Hamas-controlled checkpoint, down the road␣
```

```
true_news_testing5=str("GAZA (Reuters) - The West Bank-based Palestinian prime␣
↪minister crossed into the Gaza Strip on Monday in a move towards␣
↪reconciliation between the mainstream Fatah party and Hamas, a decade after␣
↪the Islamist group seized the territory in a civil war. Rami al-Hamdallah␣
↪said at a welcome ceremony his unity government would begin assuming control␣
↪of Gaza s administrative affairs, as well as  security responsibilities and␣
↪responsibility for crossings and borders . Hamas, considered a terrorist␣
↪group by Israel and the West, made its dramatic step towards unity last␣
↪month, disbanding its Gaza shadow government, after Egypt, Saudi Arabia and␣
↪the United Arab Emirates imposed an economic boycott on its main donor,␣
↪Qatar, over alleged support of terrorism. Qatar denies the allegation. Under␣
↪previous understandings, some 3,000 Fatah security men would be integrated␣
↪gradually into a Gaza police force overseen by an Interior Ministry headed␣
↪by Hamdallah.  That deployment would still leave Hamas s armed wing  ␣
↪analysts say it has at least 25,000 well-equipped fighters   the dominant␣
↪power in the Palestinian enclave of 2 million people.  We return to Gaza in␣
↪order to conclude reconciliation and national unity and end the painful␣
↪impacts of divisions and to rebuild Gaza brick by brick,  said Hamdallah,␣
↪who is an independent. Forces loyal to Palestinian President Mahmoud Abbas␣
↪lost control of Gaza in fighting with Hamas in 2007. Hamas s reversal is the␣
↪most significant step towards Palestinian reconciliation since the unity␣
↪government was formed in 2014. It failed to function in Gaza - where Israel␣
↪and Hamas have fought three wars since 2008 - because of disputes between␣
↪Hamas and Fatah over its responsibilities.  In his first comments after␣
↪Hamdallah and his entourage entered Gaza, Abbas told Egyptian TV station CBC␣
↪in an interview that his sanctions on the enclave would be lifted after the␣
↪unity government takes control.  Everything must be in the hands of the␣
↪Palestinian Authority, it must be the one to control the crossing points (in␣
↪and out of Gaza),  he said, adding that there could be only one regime␣
↪setting laws and enforcing them.  Analysts said narrowing internal divisions␣
↪could help Western-backed Abbas counter Israel s argument that it has no␣
↪negotiating partner for peace with the Palestinians. A Hamas police honor␣
↪guard and hundreds of Palestinians, many of them waving Palestinian flags,␣
↪awaited Hamdallah outside the Hamas-controlled checkpoint, down the road␣
```

```
manual_news_testing(true_news_testing5)
```

GAZA (Reuters) - The West Bank-based Palestinian prime minister crossed into the
Gaza Strip on Monday in a move towards reconciliation between the mainstream
Fatah party and Hamas, a decade after the Islamist group seized the territory in
a civil war. Rami al-Hamdallah said at a welcome ceremony his unity government
would begin assuming control of Gaza s administrative affairs, as well as
security responsibilities and responsibility for crossings and borders . Hamas,
considered a terrorist group by Israel and the West, made its dramatic step
towards unity last month, disbanding its Gaza shadow government, after Egypt,
Saudi Arabia and the United Arab Emirates imposed an economic boycott on its
main donor, Qatar, over alleged support of terrorism. Qatar denies the
allegation. Under previous understandings, some 3,000 Fatah security men would
be integrated gradually into a Gaza police force overseen by an Interior
Ministry headed by Hamdallah. That deployment would still leave Hamas s armed
wing   analysts say it has at least 25,000 well-equipped fighters   the dominant
power in the Palestinian enclave of 2 million people. We return to Gaza in
order to conclude reconciliation and national unity and end the painful impacts
of divisions and to rebuild Gaza brick by brick, said Hamdallah, who is an
independent. Forces loyal to Palestinian President Mahmoud Abbas lost control of
Gaza in fighting with Hamas in 2007. Hamas s reversal is the most significant
step towards Palestinian reconciliation since the unity government was formed in
2014. It failed to function in Gaza - where Israel and Hamas have fought three
wars since 2008 - because of disputes between Hamas and Fatah over its
responsibilities. In his first comments after Hamdallah and his entourage
entered Gaza, Abbas told Egyptian TV station CBC in an interview that his
sanctions on the enclave would be lifted after the unity government takes
control. Everything must be in the hands of the Palestinian Authority, it must
be the one to control the crossing points (in and out of Gaza), he said, adding
that there could be only one regime setting laws and enforcing them. Analysts
said narrowing internal divisions could help Western-backed Abbas counter Israel
s argument that it has no negotiating partner for peace with the Palestinians. A
Hamas police honor guard and hundreds of Palestinians, many of them waving
Palestinian flags, awaited Hamdallah outside the Hamas-controlled checkpoint,
down the road from Israel s Erez border crossing through which the prime
minister and his motorcade passed. It is a day of Eid, a national holiday,
said Abdel-Majid Ali, 46. We hope this time reconciliation is for real.
Nickolay Mladenov, the U.N. special coordinator for the Middle East peace
process, wrote on Twitter: The road ahead will be long and hard, but momentum
of reconciliation and peace should not be missed.   The unity drive also marked
a return to prominence of exiled former Gaza security chief Mohammed Dahlan,
once one of Hamas s fiercest enemies and now a leading figure in regional
efforts to pull the territory back into the Palestinian mainstream. Dahlan,
based since 2011 in the United Arab Emirates, is behind an influx of cash to
prop up Gaza and detente between Hamas and Arab states including Egypt, which
hosted reconciliation talks. Michael Oren, deputy minister for diplomacy in
Israeli Prime Minister Benjamin Netanyahu s cabinet, said a key issue for Israel

was whether Hamas, which is dedicated to Israel s destruction, would retain its weapons. If it does, then it s a non-starter for Israel, he said. The U.S. was watching developments closely with the aim of improving humanitarian conditions in Gaza, Jason Greenblatt, U.S. President Donald Trump s Middle East envoy, said on Twitter, but insisted the new administration must abandon violence. The United States stresses that any Palestinian government must unambiguously and explicitly commit to nonviolence, recognition of the State of Israel, acceptance of previous agreements and obligations between the parties, and peaceful negotiations, Greenblatt wrote.   Both Israel and Egypt maintain a partial blockade of Gaza, citing security concerns. In public remarks at a lunch with Hamdallah, Hamas leader Ismail Haniyeh appeared to be uncompromising about any accommodation with Israel, calling for the establishment of a Palestinian state on the full Palestinian soil with Jerusalem as its capital and the return of refugees to their lands and homes . On Tuesday, the Palestinian unity cabinet will meet in Gaza. The agenda is crowded with ideas and projects, Culture Minister Ehad Bseisso said. In addition to setting a date for holding presidential and parliamentary elections, rival factions will have to resolve the issue of the fate of the 40,000 to 50,000 civil and military staff Hamas had hired since 2007.

Logistic Regression Prediction: This is Real news
Decision Tree Prediction: This is Real news

```
[255]:  #Testing with fake news from testing data(fake_news_test_data.csv) to check if
        ↪it can actually determine if it is fake or real
```

```
print("Who better to help root out terror than a person whose religion forbids␣
↪them from ratting out someone of their own faith? The FBI and CIA are␣
↪looking to increase the  diversity  of their agencies and that includes␣
↪hiring more Arab Americans.One of the ways it hopes to achieve its goal of␣
↪greater diversity is by holding a career fair in America s most Islamic city␣
↪  Dearborn, Michigan.In  Stop the Islamization of America: A Practical Guide␣
↪to the Resistance,  renowned activist Pamela Geller provides the answer,␣
↪offering proven, practical guidance on how freedom lovers can stop jihadist␣
↪initiatives in local communities.Notices about the career fair have been␣
↪posted on the Arab-American Chamber of Commerce s Facebook page, as well as␣
↪in local news publications in Dearborn.The Press and Guide, for instance,␣
↪ran a public notice that stated the following; Learn about working for two␣
↪top government agencies during an informational session being held by The␣
↪Central Intelligence Agency and Federal Bureau of Investigation. Attendees␣
↪will learn about both agencies and have the chance to hear about career␣
↪opportunities as well as network with CIA and FBI representatives. The event␣
↪takes place at 6 p.m. July 19 at the Ford Motor Company Conference & Event␣
↪Center, 1151 Village Road, Dearborn. A formal presentation will run from 6␣
↪to 7:30 p.m. followed by networking from 7:30 to 8:30. Both the FBI and CIA␣
↪are seeking to increase diversity within the organizations and find␣
↪specifically skilled applicants to fulfill critical roles within the␣
↪agencies. Those at the event will hear about specific job positions and␣
↪qualifications through a panel discussion as well as the agencies ␣
↪similarities, strategic differences and shared commitment to thwart threats␣
↪to national security. Dinner will be provided, but seating is limited. RSVP␣
↪by July 12 to Christina Petrosian at chrissp@ucia.gov. Petrosian did not␣
↪immediately respond to emails from WND.Dick Manasseri, communications␣
↪director for Secure Michigan, a citizen-watchdog group fighting what it sees␣
↪as the Islamization of Michigan, said he found the advertisements troubling,␣
↪but not surprising. How can the FBI/CIA vet job applicants when they cannot␣
↪mention the word Shariah?  Manasseri said.Manasseri was referring to the␣
↪scrubbing of all FBI training manuals, removing all references to Shariah␣
↪and Islam that were seen as discriminatory by Muslim groups. That concession␣
↪was made in response to complaints by the Council of American-Islamic␣
↪Relations, or CAIR, by then-Deputy National Security Adviser John Brennan,␣
↪who is now in charge of the CIA. How can the FBI/CIA vet the information␣
↪provided on applications from Shariah-adherents who are encouraged to lie to␣
↪non-Muslims when it furthers the goals of Shariah?  Manasseri told WND.The␣
↪Obama administration has also invited former CAIR officials into its circle␣
↪of advisers within the U.S. Department of Homeland Security. The␣
↪opportunities for further federal government infiltration increases the␣
↪probability that we will see Shariah courts in Southeast Michigan before␣
↪long,  Manasseri said.Dearborn s population is about 40 percent Arab and␣
↪includes both Sunni and Shiite Muslims. A minority of the Arab-American␣
```

```
fake_news_testing1=str("Who better to help root out terror than a person whose␣
 ↪religion forbids them from ratting out someone of their own faith? The FBI␣
 ↪and CIA are looking to increase the  diversity  of their agencies and that␣
 ↪includes hiring more Arab Americans.One of the ways it hopes to achieve its␣
 ↪goal of greater diversity is by holding a career fair in America s most␣
 ↪Islamic city  Dearborn, Michigan.In  Stop the Islamization of America: A␣
 ↪Practical Guide to the Resistance,  renowned activist Pamela Geller provides␣
 ↪the answer, offering proven, practical guidance on how freedom lovers can␣
 ↪stop jihadist initiatives in local communities.Notices about the career fair␣
 ↪have been posted on the Arab-American Chamber of Commerce s Facebook page,␣
 ↪as well as in local news publications in Dearborn.The Press and Guide, for␣
 ↪instance, ran a public notice that stated the following; Learn about working␣
 ↪for two top government agencies during an informational session being held␣
 ↪by The Central Intelligence Agency and Federal Bureau of Investigation.␣
 ↪Attendees will learn about both agencies and have the chance to hear about␣
 ↪career opportunities as well as network with CIA and FBI representatives.␣
 ↪The event takes place at 6 p.m. July 19 at the Ford Motor Company Conference␣
 ↪& Event Center, 1151 Village Road, Dearborn. A formal presentation will run␣
 ↪from 6 to 7:30 p.m. followed by networking from 7:30 to 8:30. Both the FBI␣
 ↪and CIA are seeking to increase diversity within the organizations and find␣
 ↪specifically skilled applicants to fulfill critical roles within the␣
 ↪agencies. Those at the event will hear about specific job positions and␣
 ↪qualifications through a panel discussion as well as the agencies ␣
 ↪similarities, strategic differences and shared commitment to thwart threats␣
 ↪to national security. Dinner will be provided, but seating is limited. RSVP␣
 ↪by July 12 to Christina Petrosian at chrissp@ucia.gov. Petrosian did not␣
 ↪immediately respond to emails from WND.Dick Manasseri, communications␣
 ↪director for Secure Michigan, a citizen-watchdog group fighting what it sees␣
 ↪as the Islamization of Michigan, said he found the advertisements troubling,␣
 ↪but not surprising. How can the FBI/CIA vet job applicants when they cannot␣
 ↪mention the word Shariah?  Manasseri said.Manasseri was referring to the␣
 ↪scrubbing of all FBI training manuals, removing all references to Shariah␣
 ↪and Islam that were seen as discriminatory by Muslim groups. That concession␣
 ↪was made in response to complaints by the Council of American-Islamic␣
 ↪Relations, or CAIR, by then-Deputy National Security Adviser John Brennan,␣
 ↪who is now in charge of the CIA. How can the FBI/CIA vet the information␣
 ↪provided on applications from Shariah-adherents who are encouraged to lie to␣
 ↪non-Muslims when it furthers the goals of Shariah?  Manasseri told WND.The␣
 ↪Obama administration has also invited former CAIR officials into its circle␣
 ↪of advisers within the U.S. Department of Homeland Security. The␣
 ↪opportunities for further federal government infiltration increases the␣
 ↪probability that we will see Shariah courts in Southeast Michigan before␣
 ↪long,  Manasseri said.Dearborn s population is about 40 percent Arab and␣
 ↪includes both Sunni and Shiite Muslims. A minority of the Arab-American␣
```

Who better to help root out terror than a person whose religion forbids them from ratting out someone of their own faith? The FBI and CIA are looking to increase the diversity of their agencies and that includes hiring more Arab Americans.One of the ways it hopes to achieve its goal of greater diversity is by holding a career fair in America s most Islamic city   Dearborn, Michigan.In Stop the Islamization of America: A Practical Guide to the Resistance, renowned activist Pamela Geller provides the answer, offering proven, practical guidance on how freedom lovers can stop jihadist initiatives in local communities.Notices about the career fair have been posted on the Arab-American Chamber of Commerce s Facebook page, as well as in local news publications in Dearborn.The Press and Guide, for instance, ran a public notice that stated the following; Learn about working for two top government agencies during an informational session being held by The Central Intelligence Agency and Federal Bureau of Investigation. Attendees will learn about both agencies and have the chance to hear about career opportunities as well as network with CIA and FBI representatives. The event takes place at 6 p.m. July 19 at the Ford Motor Company Conference & Event Center, 1151 Village Road, Dearborn. A formal presentation will run from 6 to 7:30 p.m. followed by networking from 7:30 to 8:30. Both the FBI and CIA are seeking to increase diversity within the organizations and find specifically skilled applicants to fulfill critical roles within the agencies. Those at the event will hear about specific job positions and qualifications through a panel discussion as well as the agencies similarities, strategic differences and shared commitment to thwart threats to national security. Dinner will be provided, but seating is limited. RSVP by July 12 to Christina Petrosian at chrissp@ucia.gov. Petrosian did not immediately respond to emails from WND.Dick Manasseri, communications director for Secure Michigan, a citizen-watchdog group fighting what it sees as the Islamization of Michigan, said he found the advertisements troubling, but not surprising. How can the FBI/CIA vet job applicants when they cannot mention the word Shariah? Manasseri said.Manasseri was referring to the scrubbing of all FBI training manuals, removing all references to Shariah and Islam that were seen as discriminatory by Muslim groups. That concession was made in response to complaints by the Council of American-Islamic Relations, or CAIR, by then-Deputy National Security Adviser John Brennan, who is now in charge of the CIA. How can the FBI/CIA vet the information provided on applications from Shariah-adherents who are encouraged to lie to non-Muslims when it furthers the goals of Shariah? Manasseri told WND.The Obama administration has also invited former CAIR officials into its circle of advisers within the U.S. Department of Homeland Security. The opportunities for further federal government infiltration increases the probability that we will see Shariah courts in Southeast Michigan before long, Manasseri said.Dearborn s population is about 40 percent Arab and includes both Sunni and Shiite Muslims. A minority of the Arab-American community in Dearborn are Christian.And the Dearborn area is getting more Muslim by the month thanks to the current Syrian refugee program being carried out by President Obama. Just in the last nine months the U.S. State Department has delivered 143 Syrians to

Dearborn for permanent resettlement.Another 174 Syrians have been sent to Troy, which is only 25 miles north of Dearborn.Michigan has been targeted to receive nearly half of the 10,000 Syrian refugees Obama has promised the United Nations he would admit into the U.S.After getting off to a slow start, Syrian arrivals are now occurring by the hundreds per day. On Wednesday another 249 Syrians arrived in the U.S. for permanent resettlement.Obama s pledge of 10,000 Syrian refugees in fiscal 2016, which ends Sept. 30, now appears to be a deadline he will make. His State Department has delivered nearly 60 percent of the 10,000 with two and a half months to go. Via: WND

Logistic Regression Prediction: This is Fake news
Decision Tree Prediction: This is Fake news

```
[256]: #Testing with fake news from testing data(fake_news_test_data.csv) to check if␣
       ↪it can actually determine if it is fake or real
```

```
print("Oh look Hillary s considering a lying, opportunist, Democrat politician␣
↪with a vagina as her running mate. It all makes perfect sense if you␣
↪consider that Hillary s thinking ahead, and that if anything happened to her␣
↪she wants to make sure she has someone with the same morals and ethics to␣
↪fill her corrupt shoes In Warren s book  A Fighting Chance,  Massachusetts␣
↪Democratic senator and potential vice presidential candidate Elizabeth␣
↪Warren attempts to rewrite history regarding the controversy surrounding her␣
↪ Native American  ancestry that emerged in the 2012 Senate campaign. What s␣
↪remarkable is that, at least in the initial book reviews, the press largely␣
↪allows her to get away with it. In fact, it s virtually ignored that to this␣
↪day Warren still refuses to release any law school records that may shed␣
↪light on this controversy.To be fair, most reviews note that Warren has␣
↪never substantiated her claims of Native American heritage, which is true.␣
↪The larger and unaddressed issue, however, is whether or not Warren falsely␣
↪claimed minority status in order to gain an unfair advantage in her academic␣
↪career. This was a question that was unresolved at the end of the 2012␣
↪campaign and it remains unresolved with the publication of Warren s book.
```

```
fake_news_testing2=str("Oh look Hillary s considering a lying, opportunist,␣
↪Democrat politician with a vagina as her running mate. It all makes perfect␣
↪sense if you consider that Hillary s thinking ahead, and that if anything␣
↪happened to her she wants to make sure she has someone with the same morals␣
↪and ethics to fill her corrupt shoes In Warren s book  A Fighting Chance, ␣
↪Massachusetts Democratic senator and potential vice presidential candidate␣
↪Elizabeth Warren attempts to rewrite history regarding the controversy␣
↪surrounding her  Native American  ancestry that emerged in the 2012 Senate␣
↪campaign. What s remarkable is that, at least in the initial book reviews,␣
↪the press largely allows her to get away with it. In fact, it s virtually␣
↪ignored that to this day Warren still refuses to release any law school␣
↪records that may shed light on this controversy.To be fair, most reviews␣
↪note that Warren has never substantiated her claims of Native American␣
↪heritage, which is true. The larger and unaddressed issue, however, is␣
↪whether or not Warren falsely claimed minority status in order to gain an␣
↪unfair advantage in her academic career. This was a question that was␣
↪unresolved at the end of the 2012 campaign and it remains unresolved with␣
```

Oh look Hillary s considering a lying, opportunist, Democrat politician with a vagina as her running mate. It all makes perfect sense if you consider that Hillary s thinking ahead, and that if anything happened to her she wants to make sure she has someone with the same morals and ethics to fill her corrupt shoes In Warren s book A Fighting Chance, Massachusetts Democratic senator and potential vice presidential candidate Elizabeth Warren attempts to rewrite history regarding the controversy surrounding her Native American ancestry that emerged in the 2012 Senate campaign. What s remarkable is that, at least in the initial book reviews, the press largely allows her to get away with it. In fact, it s virtually ignored that to this day Warren still refuses to release any law school records that may shed light on this controversy.To be fair, most reviews note that Warren has never substantiated her claims of Native American heritage, which is true. The larger and unaddressed issue, however, is whether or not Warren falsely claimed minority status in order to gain an unfair advantage in her academic career. This was a question that was unresolved at the end of the 2012 campaign and it remains unresolved with the publication of Warren s book.Watch Cherokee people from ND tell how they feel about Lying Elizabeth using phony Native American status to gain an advantage in obtaining a job:First, what s perhaps most notable about Warren s book is that she even includes a section called Native American, in which she reportedly writes, Everyone on our mother s side   aunts, uncles, and grandparents   talked openly about their Native American ancestry. My brothers and I grew up on stories about our grandfather building one-room schoolhouses and about our grandparents courtship and their early lives together in Indian Territory. This is ironic because, until the Boston Herald first broke the news in April 2012 that Harvard Law School had repeatedly promoted Warren as a Native American faculty member, Warren never once mentioned these stories of her upbringing in a single press interview, speech, class lecture or testimony at any point, ever, in her decades-long career. What s more, Warren was not listed as a minority on her transcript from George Washington University where she began her undergraduate education, nor did she list herself as a minority when applying to Rutgers University Law School in 1973.In fact, it was not until she was in her 30s and focused on climbing the highly competitive ladder of law school academia that Warren apparently rediscovered her Native American heritage. It s important to note that entrance and advancement in the law school profession is governed by the Association of American Law Schools, which requires registrants interested in teaching at law schools to fill out a questionnaire detailing their education, experience, bar passage and, yes, ethnicity. This information is then disseminated to law schools around the country that, as Warren surely knew, are always on the lookout to add to the diversity of their faculty.A copy of Warren s questionnaire currently resides in the Association of American Law Schools archives at the University of Illinois at Urbana-Champaign. However, only Warren herself has the authority to release the complete copy of her questionnaire and to date, she has refused to do so.Watch Warren stonewalling the press over her phony Native American status and double down on her refusal to clear the

record and release the copy of her questionnaire: Her opposition to such transparency can perhaps be understood in the documented fact that in the years thereafter, starting in 1986, Warren began self-reporting herself as a minority professor in the Association of American Law Schools staff directory that lists all law school professors around the country. As the former association chairman told the Boston Herald, the directory once served a tip sheet for law school administrators, in the pre-Internet days, who were looking to identify and recruit minority professors.Remarkably, Warren s explanation to the Boston Herald was that she listed herself as a minority in the hopes that she would be invited to a luncheon so she could meet people who are like I am and she stopped checking the box when that didn t happen. Perhaps it didn t happen because at no point, at any of the schools she attended or worked at, is there any evidence that Warren ever joined any Native American organizations on campus or in any way interacted with anyone in the Native American community.That did not however, stop Warren from continuing to self-report as a Native American minority. The New York Times reported in May 2012 that Warren was listed as a minority recipient of a teaching award years earlier at the University of Pennsylvania where she had advanced after teaching at several non-Ivy League law schools. Notably, Penn declined to explain to the Times why Warren was listed as a minority.From Penn, Warren moved on to Harvard Law School, where her Native American heritage was touted in multiple articles, including a Fordham Law Review piece that lauded her as Harvard Law s first woman of color. Even as recently as 2011, it appears Warren was listed as the lone Native American faculty member on the school s 2011 diversity report, though like Penn, Harvard also refused to comment.Yet, when the Herald first broke the story in April 2012, Warren claimed she had no idea that Harvard had touted her Native American status and claimed she did not recall ever citing her Native American heritage when applying for a job. In the months afterward, Warren ducked, dodged and stonewalled subsequent questions, eventually wearing-out the press, and succeeded in winning an election without ever releasing any records that might substantiate those claims.Whether Warren falsely claimed to be a minority in order to game the system and advance her career is a question that goes to the heart of her honesty and integrity. It s also a question that will confront her if she ever seeks higher office. Via: US News

Logistic Regression Prediction: This is Fake news
Decision Tree Prediction: This is Fake news

[257]: *#Testing with fake news from testing data(fake_news_test_data.csv) to check if␣*
↪it can actually determine if it is fake or real

```python
print("This is the truth about the intentions of the growing radical Muslim␣
 ↪population living in the UK. It s the truth the liberal, open-borders Left␣
 ↪in America doesn t want you to see. These are the people Donald Trump is␣
 ↪warning us about allowing into our country with no real vetting, besides␣
 ↪that of the UN, who has no vested interest in our national security. The␣
 ↪people featured in this video could easily be your neighbor. An Eye-Opening␣
 ↪Two Year Undercover Investigation Into Britain s Muslim Community These are␣
 ↪the black flags of Islam. This one is actually the flag of the Islamic State␣
 ↪[ISIS]. One day when the Sharia comes, you will see this black flag␣
 ↪everywhere. One famous scholar of Islam Sheik he said that,  The black flag␣
 ↪of Islam will one day fly high over 10 Downing Street  and that was about␣
 ↪10-15 years ago. It seemed ludicrous back then, but if you look at the way␣
 ↪society is moving now, you see it as a very real possibility, the way␣
 ↪Muslims are coming forward in this country. ")
fake_news_testing3=str("This is the truth about the intentions of the growing␣
 ↪radical Muslim population living in the UK. It s the truth the liberal,␣
 ↪open-borders Left in America doesn t want you to see. These are the people␣
 ↪Donald Trump is warning us about allowing into our country with no real␣
 ↪vetting, besides that of the UN, who has no vested interest in our national␣
 ↪security. The people featured in this video could easily be your neighbor.␣
 ↪An Eye-Opening Two Year Undercover Investigation Into Britain s Muslim␣
 ↪Community These are the black flags of Islam. This one is actually the flag␣
 ↪of the Islamic State [ISIS]. One day when the Sharia comes, you will see␣
 ↪this black flag everywhere. One famous scholar of Islam Sheik he said that, ␣
 ↪The black flag of Islam will one day fly high over 10 Downing Street  and␣
 ↪that was about 10-15 years ago. It seemed ludicrous back then, but if you␣
 ↪look at the way society is moving now, you see it as a very real␣
 ↪possibility, the way Muslims are coming forward in this country. ")
manual_news_testing(fake_news_testing3)
```

This is the truth about the intentions of the growing radical Muslim population
living in the UK. It s the truth the liberal, open-borders Left in America doesn
t want you to see. These are the people Donald Trump is warning us about
allowing into our country with no real vetting, besides that of the UN, who has
no vested interest in our national security. The people featured in this video
could easily be your neighbor. An Eye-Opening Two Year Undercover Investigation
Into Britain s Muslim Community These are the black flags of Islam. This one is
actually the flag of the Islamic State [ISIS]. One day when the Sharia comes,
you will see this black flag everywhere. One famous scholar of Islam Sheik he
said that, The black flag of Islam will one day fly high over 10 Downing Street
and that was about 10-15 years ago. It seemed ludicrous back then, but if you
look at the way society is moving now, you see it as a very real possibility,
the way Muslims are coming forward in this country.

Logistic Regression Prediction: This is Fake news
Decision Tree Prediction: This is Fake news

```python
#Testing with fake news from testing data(fake_news_test_data.csv) to check if
↪it can actually determine if it is fake or real

print("Because 6 year old girls are consumed with their sexual identities right?
↪ The parents should be getting regular visits by social services and the
↪fired school manager and teacher should be reinstated and given an award for
↪the courage to do the right thing Two school staff members say they were
↪fired for refusing to call a six-year-old girl a boy and addressing her by a
↪new masculine name.According to Madeline Kirksey, a manager at the Children
↪s Lighthouse Learning Center in Katy, Texas, her staff was told a
↪six-year-old student is transgender after the child s parents cut her hair
↪short, Fox26 reported. They were instructed to begin referring to the
↪student as a boy and call her by a boy s name.School administrators
↪reportedly gave staff a handout to refer to when addressing questions from
↪other students. It caused confusion,  Kirksey told Fox26.  I don t think we
↪should be talking to other people s children who are under the age of 18
↪about being transgender. She said the school fired her after she insisted
↪the parents of other students be notified and allowed to address the issue
↪with their children.Not only where the other students disoriented by the
↪sudden change, but the transgender student seemed to be confused as well.
↪One day, she wanted to be a girl, the next day she wanted to be a boy,
↪Kirksey said.  The other kids are confused as well, calling her a boy and
↪she would start screaming,  I m not a boy! Among the reasons stated in her
↪termination letter was that Kirksey  does not follow instructions  when
↪requested  to call a transgender child by the child s new name. Another
↪teacher says she was also fired for raising concerns about all the
↪confusion, according to Fox26. Via: BPR")
```

```
fake_news_testing4=str("Because 6 year old girls are consumed with their sexual␣
 ↪identities right? The parents should be getting regular visits by social␣
 ↪services and the fired school manager and teacher should be reinstated and␣
 ↪given an award for the courage to do the right thing Two school staff␣
 ↪members say they were fired for refusing to call a six-year-old girl a boy␣
 ↪and addressing her by a new masculine name.According to Madeline Kirksey, a␣
 ↪manager at the Children s Lighthouse Learning Center in Katy, Texas, her␣
 ↪staff was told a six-year-old student is transgender after the child s␣
 ↪parents cut her hair short, Fox26 reported. They were instructed to begin␣
 ↪referring to the student as a boy and call her by a boy s name.School␣
 ↪administrators reportedly gave staff a handout to refer to when addressing␣
 ↪questions from other students. It caused confusion,  Kirksey told Fox26.  I␣
 ↪don t think we should be talking to other people s children who are under␣
 ↪the age of 18 about being transgender. She said the school fired her after␣
 ↪she insisted the parents of other students be notified and allowed to␣
 ↪address the issue with their children.Not only where the other students␣
 ↪disoriented by the sudden change, but the transgender student seemed to be␣
 ↪confused as well. One day, she wanted to be a girl, the next day she wanted␣
 ↪to be a boy,  Kirksey said.  The other kids are confused as well, calling␣
 ↪her a boy and she would start screaming,  I m not a boy! Among the reasons␣
 ↪stated in her termination letter was that Kirksey  does not follow␣
 ↪instructions  when requested  to call a transgender child by the child s new␣
 ↪name. Another teacher says she was also fired for raising concerns about all␣
 ↪the confusion, according to Fox26. Via: BPR")
manual_news_testing(fake_news_testing4)
```

Because 6 year old girls are consumed with their sexual identities right? The parents should be getting regular visits by social services and the fired school manager and teacher should be reinstated and given an award for the courage to do the right thing Two school staff members say they were fired for refusing to call a six-year-old girl a boy and addressing her by a new masculine name.According to Madeline Kirksey, a manager at the Children s Lighthouse Learning Center in Katy, Texas, her staff was told a six-year-old student is transgender after the child s parents cut her hair short, Fox26 reported. They were instructed to begin referring to the student as a boy and call her by a boy s name.School administrators reportedly gave staff a handout to refer to when addressing questions from other students. It caused confusion, Kirksey told Fox26. I don t think we should be talking to other people s children who are under the age of 18 about being transgender. She said the school fired her after she insisted the parents of other students be notified and allowed to address the issue with their children.Not only where the other students disoriented by the sudden change, but the transgender student seemed to be confused as well. One day, she wanted to be a girl, the next day she wanted to be a boy, Kirksey said. The other kids are confused as well, calling her a boy and she would start screaming, I m not a boy! Among the reasons stated in her termination letter was that Kirksey does not follow instructions when requested to call a transgender child by the child s new name. Another teacher says she was also

fired for raising concerns about all the confusion, according to Fox26. Via: BPR

Logistic Regression Prediction: This is Fake news
Decision Tree Prediction: This is Fake news

```python
#Testing with fake news from testing data(fake_news_test_data.csv) to check if
 it can actually determine if it is fake or real

print("Former Senate President of Haiti, Bernard Sansaricq, shocked a large
 crowd at a Trump campaign event in Little Haiti, FL. Sansaricq exposes all
 of the dirty dealings of the Clinton s in Haiti while he was still in office.
  Donald Trump to his credit, allowed him to speak his mind and expose to the
 world what kind of criminals are attempting to scratch and claw their way
 back into our White House.Sansaricq also claims he begged the Clinton
 Administration not to invade Haiti. His request was followed up with a visit
 by an anonymous messenger from the White House who encouraged him to  side
 with the Clinton Administration and he would  be the richest man in Haiti.
 He also suggests that Hillary Clinton  disclose the audit of all money
 related to the Haiti earthquake crisis, as he claims they scammed the
 poorest citizens of Haiti out of BILLIONS of dollars through the Clinton
 Foundation. Not even 2% of that money went back to Haiti. So Mr. Trump, we
 are asking you, begging you, the Haitian community will side with you if one
 day, you ask Hillary Clinton publicly to disclose the audit of all of the
 money they have stolen from Haiti in 2010 after the earthquake. Haiti is a
 very poor country. Haiti needs defenders. You said you would champion our
 cause. We welcome you sir and we will work with you. Ask Hillary Clinton
 publicly, during your next debate for an audit of all of the money they have
 stolen from Haiti. Watch this stunning confession of bribery, and threats
 during the Clinton presidency when Bill tried to oust the regime in Haiti.
 ")
```

```
fake_news_testing5=str("Former Senate President of Haiti, Bernard Sansaricq,␣
 ↪shocked a large crowd at a Trump campaign event in Little Haiti, FL.␣
 ↪Sansaricq exposes all of the dirty dealings of the Clinton s in Haiti while␣
 ↪he was still in office. Donald Trump to his credit, allowed him to speak his␣
 ↪mind and expose to the world what kind of criminals are attempting to␣
 ↪scratch and claw their way back into our White House.Sansaricq also claims␣
 ↪he begged the Clinton Administration not to invade Haiti. His request was␣
 ↪followed up with a visit by an anonymous messenger from the White House who␣
 ↪encouraged him to  side  with the Clinton Administration and he would  be␣
 ↪the richest man in Haiti. He also suggests that Hillary Clinton  disclose␣
 ↪the audit of all money  related to the Haiti earthquake crisis, as he claims␣
 ↪they scammed the poorest citizens of Haiti out of BILLIONS of dollars␣
 ↪through the Clinton Foundation. Not even 2% of that money went back to Haiti.
 ↪ So Mr. Trump, we are asking you, begging you, the Haitian community will␣
 ↪side with you if one day, you ask Hillary Clinton publicly to disclose the␣
 ↪audit of all of the money they have stolen from Haiti in 2010 after the␣
 ↪earthquake. Haiti is a very poor country. Haiti needs defenders. You said␣
 ↪you would champion our cause. We welcome you sir and we will work with you.␣
 ↪Ask Hillary Clinton publicly, during your next debate for an audit of all of␣
 ↪the money they have stolen from Haiti. Watch this stunning confession of␣
 ↪bribery, and threats during the Clinton presidency when Bill tried to oust␣
 ↪the regime in Haiti.  ")
manual_news_testing(fake_news_testing5)
```

Former Senate President of Haiti, Bernard Sansaricq, shocked a large crowd at a
Trump campaign event in Little Haiti, FL. Sansaricq exposes all of the dirty
dealings of the Clinton s in Haiti while he was still in office. Donald Trump to
his credit, allowed him to speak his mind and expose to the world what kind of
criminals are attempting to scratch and claw their way back into our White
House.Sansaricq also claims he begged the Clinton Administration not to invade
Haiti. His request was followed up with a visit by an anonymous messenger from
the White House who encouraged him to side with the Clinton Administration and
he would be the richest man in Haiti. He also suggests that Hillary Clinton
disclose the audit of all money related to the Haiti earthquake crisis, as he
claims they scammed the poorest citizens of Haiti out of BILLIONS of dollars
through the Clinton Foundation. Not even 2% of that money went back to Haiti. So
Mr. Trump, we are asking you, begging you, the Haitian community will side with
you if one day, you ask Hillary Clinton publicly to disclose the audit of all of
the money they have stolen from Haiti in 2010 after the earthquake. Haiti is a
very poor country. Haiti needs defenders. You said you would champion our cause.
We welcome you sir and we will work with you. Ask Hillary Clinton publicly,
during your next debate for an audit of all of the money they have stolen from
Haiti. Watch this stunning confession of bribery, and threats during the Clinton
presidency when Bill tried to oust the regime in Haiti.

Logistic Regression Prediction: This is Fake news
Decision Tree Prediction: This is Fake news

[ ]: