Import numpy as np

Import pandas as pd

From sklearn.feature\_extraction.text import TfidfVectorizer

From sklearn.linear\_model import LogisticRegression

From sklearn.model\_selection import train\_test\_split

# Load the dataset

Df = pd.read\_csv(‘fake\_news\_dataset.csv’)

# Preprocess the data

# Remove stop words

# Stem or lemmatize the words

# Extract features from the data

Vectorizer = TfidfVectorizer()

X = vectorizer.fit\_transform(df[‘text’])

# Split the data into training and test sets

X\_train, X\_test, y\_train, y\_test = train\_test\_split(X, df[‘label’], test\_size=0.25, random\_state=42)

# Train a machine learning model

Model = LogisticRegression()

Model.fit(X\_train, y\_train)

# Evaluate the model

Y\_pred = model.predict(X\_test)

Accuracy = np.mean(y\_pred == y\_test)

Print(f’Accuracy: {accuracy}’)

# Use the model to predict whether a new news article is real or fake

New\_article = ‘This is a fake news article.’

New\_article\_vector = vectorizer.transform([new\_article])

Prediction = model.predict(new\_article\_vector)

If prediction == 1:

Print(‘The news article is fake.’)

Else:

Print(‘The news article is real.’)