```
import pandas as pd
from sklearn.model_selection import train_test_split
from sklearn.feature_extraction.text import TfidfVectorizer
from sklearn.linear_model import LogisticRegression
from sklearn.metrics import accuracy_score, classification_report

# Load dataset
# Dataset must have columns: ['title', 'text', 'label']
df = pd.read_csv('fake_news_dataset.csv')  # Replace with your actual path

# Combine title and text for more context
df['content'] = df['title'] + " " + df['text']

# Encode label: FAKE = 0, REAL = 1
['label'] = df['label'].map({'FAKE': 0, 'REAL': 1})

# Features and labels
X = df['content']
y = df['label']

# Split the dataset
X_train, X_test, y_train, y_test = train_test_split(
    X, y, test_size=0.2, random_state=42
```

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)

# TF-IDF Vectorization
tfidf = TfidfVectoriz(stop_words='english', max_df=0.7)
X_train_tfidf = tfidf.fit_transform(X_train)
X_test_tfidf = tfidf.transform(X_test)

# Model training
model = LogisticRegression()
model.fit(X_train_tfidf, y_train)

# Prediction
y_pred = model.predict(X_test_tfidf)

# Evaluation
print("Accuracy:", accuracy_score(y_test, y_pred))
print("\nClassification Report:\n", classification_report(y_test, y_pred))
```