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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

data = {
    'text': [
        'The economy is growing rapidly this year',
        'Scientists discovered a new planet',
        'Click here to win a free iPhone!',
        'BREAKING: Celebrity found dead from
overdose',
        'New study shows vaccines are effective',
        'Shocking truth about the COVID-19 vaccine'
    ],
    'label': ['REAL', 'REAL', 'FAKE', 'FAKE', 'REAL',
'FAKE']
}

df = pd.DataFrame(data)

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

X_train, X_test, y_train, y_test =
train_test_split(df['text'], df['label'], test_size=0.3,
random_state=42)

vectorizer = TfidfVectorizer()
X_train_vec = vectorizer.fit_transform(X_train)
X_test_vec = vectorizer.transform(X_test)
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model = LogisticRegression()
model.fit(X_train_vec, y_train)

y_pred = model.predict(X_test_vec)

print("Accuracy:", accuracy_score(y_test, y_pred))
for text, pred in zip(X_test, y_pred):
    print(f"Text: {text} -> Predicted: {'FAKE' if pred ==
1 else 'REAL'}")
```