Minor_SVM

```
from google.colab import drive
drive.mount('/content/drive')

# Example path (adjust if different)
path = "/content/drive/MyDrive/FakeNews/"
!pip install scikit-learn pandas numpy
import pandas as pd
from sklearn.model_selection import train_test_split
from sklearn.feature_extraction.text import TfidfVectorizer
from sklearn.svm import LinearSVC
from sklearn.metrics import classification_report, accuracy_score

# Load dataset
true_news = pd.read_csv("True.csv")   # if uploaded to Colab working dir
fake_news = pd.read_csv("Fake.csv")

# Add labels
true_news["label"] = 1
fake_news["label"] = 0

# Combine and shuffle
df = pd.concat([true_news, fake_news], axis=0)
df = df.sample(frac=1).reset_index(drop=True)
```

```
# Use title + text
df["content"] = df["title"] + " " + df["text"]

X = df["content"]
y = df["label"]

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

# Vectorization
vectorizer = TfidfVectorizer(stop_words="english", max_df=0.7)
X_train_vec = vectorizer.fit_transform(X_train)
X_test_vec = vectorizer.transform(X_test)

# Train SVM
svm_model = LinearSVC()
svm_model.fit(X_train_vec, y_train)

# Predictions
y_pred = svm_model.predict(X_test_vec)

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