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import pandas as pd
from sklearn.feature_extraction.text import CountVectorizer
from sklearn.model_selection import train_test_split
from sklearn.naive_bayes import MultinomialNB
from sklearn.metrics import accuracy_score, classification_report
df = pd.read_csv('spam.csv')
df=df[["Category", "Message"]]
df["Category"]=df["Category"].map({"ham": 0, "spam": 1})
vectorizer = CountVectorizer()
x=vectorizer.fit_transform(df["Message"])
y=df["Category"]
x_train, x_test, y_train, y_test = train_test_split(x, y, test_size=0.2, random_state=42)
model = MultinomialNB()
model.fit(x_train, y_train)
y_pred = model.predict(x_test)
print("Accuracy :", accuracy_score(y_test, y_pred))
print("Classification Report :\n", classification_report(y_test, y_pred))
def predict_spam(message):
  msg_vec = vectorizer.transform([message])
  prediction = model.predict(msg_vec)
  return "spam" if prediction[0] == 1 else "ham"
# Test predictions
print(predict_spam("Congratulations! You've won a free cruise!"))
print(predict_spam("Are you available for a call later today?"))
```