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import pandas as pd

from sklearn.model_selection import train_test_split

from sklearn.feature_extraction.text import CountVectorizer

from sklearn.naive_bayes import MultinomialNB

from sklearn.metrics import classification_report, confusion_matrix

data = pd.read_csv('spam.csv')

X = data['EmailText']

y = data['Label']

X_train, X_test, y_train, y_test = train_test_split(X, y, test_size=0.2, random_state=1)

vectorizer = CountVectorizer()

X_train_counts = vectorizer.fit_transform(X_train)

X_test_counts = vectorizer.transform(X_test)

model = MultinomialNB()

model.fit(X_train_counts, y_train)

y_pred = model.predict(X_test_counts)

print(confusion_matrix(y_test, y_pred))
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