



The following is an example of a Python program that classifies spam using a machine learning model. The program uses the Naive Bayes algorithm and the Scikit-learn library.

```
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 accuracy_score

# Read the data
data = pd.read_csv('spam.csv')

# Split the data into training and testing
sets
X_train, X_test, y_train, y_test =
train_test_split(data['message'],
data['label'], test_size=0.2,
random_state=42)

# Create a CountVectorizer object to
convert text into tokens/features
vectorizer = CountVectorizer()
X_train_count =
vectorizer.fit_transform(X_train)

# Train the Naive Bayes classifier
model = MultinomialNB()
model.fit(X_train_count, y_train)

# Convert the testing set to vectors
X_test_count =
vectorizer.transform(X_test)

# Predict the labels for the testing set
y_pred = model.predict(X_test_count)

# Calculate the accuracy of the model
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# Predict the labels for the testing set
y_pred = model.predict(X_test_count)

# Calculate the accuracy of the model
accuracy = accuracy_score(y_test, y_pred)
print("Accuracy:", accuracy)
```

Make sure you have the necessary libraries installed (Scikit-learn and pandas) and have the spam.csv file in the same directory as the Python program. The spam.csv file should contain two columns: 'message' and 'label', where 'message' contains the text of the email/sms and 'label' contains the class (spam or ham).