```
# Import necessary libraries
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, confusion_matrix, classification_report

# Load the SMS spam dataset
data = pd.read_csv('sms_spam.csv')

# Explore the dataset
print("Dataset head:")
print(data.head())

# Split the dataset into features (SMS messages) and labels (spam or non-spam)
X = data['message']
y = data['label']

# Convert labels to binary (0 for non-spam, 1 for spam)
y = y.map({'ham': 0, 'spam': 1})

# Split the dataset into training and testing sets
X_train, X_test, y_train, y_test = train_test_split(X, y, test_size=0.2, random_state=42)

# Vectorize the SMS messages
vectorizer = CountVectorizer()
X_train_vectorized = vectorizer.fit_transform(X_train)
X_test_vectorized = vectorizer.transform(X_test)

# Train a Naive Bayes classifier
classifier = MultinomialNB()
```

```
classifier.fit(X_train_vectorized, y_train)

# Predictions
y_pred = classifier.predict(X_test_vectorized)

# Evaluate the model
accuracy = accuracy_score(y_test, y_pred)
print("\nAccuracy:", accuracy)

conf_matrix = confusion_matrix(y_test, y_pred)
print("\nConfusion Matrix:")
print(conf_matrix)

report = classification_report(y_test, y_pred)
print("\nClassification Report:")
print(report)
```