```
import numpy as np
import pandas as pd
from sklearn.model_selection import train_test_split
from sklearn.preprocessing import StandardScaler
from sklearn.svm import SVC
from sklearn.metrics import accuracy_score, classification_report

# Load the wine quality dataset from your CSV file with the appropriate encoding
df = pd.read_csv('https://gist.githubusercontent.com/tijptjik/9408623/raw/b237fa5848349a14a14e5d4107dc7897c21

# Divide the data into input (features) and output (target)
X = df.iloc[:, 1:]  # All columns except the first one (features)
y = df.iloc[:, 0]   # First column (target)

print(x)
print()
print(y)
print()

# Split the dataset into training and testing sets (80% train, 20% test)
X_train, X_test, y_train, y_test = train_test_split(X, y, test_size=0.2, random_state=42)

# Standardize the features by removing the mean and scaling to unit variance
scaler = StandardScaler()
X_train = scaler.fit_transform(X_train)
X_test = scaler.transform(X_test)

# Create an SVM classifier
svm_classifier = SVC(kernel='linear', C=1.0, random_state=42)

# Train the classifier on the training data
svm_classifier.fit(X_train, y_train)

# Make predictions on the test data
y_pred = svm_classifier.predict(X_test)

# Evaluate the classifier's performance
accuracy = accuracy_score(y_test, y_pred)
report = classification_report(y_test, y_pred)

print(f"Accuracy: {accuracy:.2f}")
print("\nClassification Report:")
print(report)
```

```
[14.23 13.2  13.16 14.37 13.24 14.2  14.39 14.06 14.83 13.86 14.1  14.12
 13.75 14.75 14.38 13.63 14.3  13.83 14.19 13.64 14.06 12.93 13.71 12.85
 13.5  13.05 13.39 13.3  13.87 14.02 13.73 13.58 13.68 13.76 13.51 13.48
 13.28 13.05 13.07 14.22 13.56 13.41 13.88 13.24 13.05 14.21 14.38 13.9
 14.1  13.94 13.05 13.83 13.82 13.77 13.74 13.56 14.22 13.29 13.72 12.37
 12.33 12.64 13.67 12.37 12.17 12.37 13.11 12.37 13.34 12.21 12.29 13.86
 13.49 12.99 11.96 11.66 13.03 11.84 12.33 12.7  12.   12.72 12.08 13.05
 11.84 12.67 12.16 11.65 11.64 12.08 12.08 12.   12.69 12.29 11.62 12.47
 11.81 12.29 12.37 12.29 12.08 12.6  12.34 11.82 12.51 12.42 12.25 12.72
 12.22 11.61 11.46 12.52 11.76 11.41 12.08 11.03 11.82 12.42 12.77 12.
 11.45 11.56 12.42 13.05 11.87 12.07 12.43 11.79 12.37 12.04 12.86 12.88
 12.81 12.7  12.51 12.6  12.25 12.53 13.49 12.84 12.93 13.36 13.52 13.62
 12.25 13.16 13.88 12.87 13.32 13.08 13.5  12.79 13.11 13.23 12.58 13.17
 13.84 12.45 14.34 13.48 12.36 13.69 12.85 12.96 13.78 13.73 13.45 12.82
 13.58 13.4  12.2  12.77 14.16 13.71 13.4  13.27 13.17 14.13]

0      1
1      1
2      1
3      1
4      1
```

```
      ..
173    3
174    3
175    3
176    3
177    3
Name: Wine, Length: 178, dtype: int64

Accuracy: 0.97

Classification Report:
              precision    recall  f1-score   support

           1       1.00      1.00      1.00        14
           2       1.00      0.93      0.96        14
           3       0.89      1.00      0.94         8

    accuracy                           0.97        36
   macro avg       0.96      0.98      0.97        36
weighted avg       0.98      0.97      0.97        36
```


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