

SVM

May 5, 2023

```
[ ]: import numpy as np
from sklearn.model_selection import train_test_split
from sklearn.metrics import accuracy_score
from sklearn.svm import SVC
from sklearn.preprocessing import StandardScaler
from sklearn.model_selection import GridSearchCV
import pandas as pd
import seaborn as sns
import matplotlib.pyplot as plt
import tqdm

# Load data from winequality-red.csv
Data = np.loadtxt('winequality-red.csv', delimiter=';', skiprows=1)
Data = np.loadtxt('cleaned_data.csv', delimiter=',', skiprows=1)
print(Data.shape)
y = Data[:, -1]
X = Data[:, :-1]

# Split data into training and testing sets
X_train, X_test, y_train, y_test = train_test_split(X, y, test_size=0.
↪3, random_state=70)
```

(1395, 12)

```
[ ]: svc_clf = SVC(kernel='rbf', C=1.0, random_state=1, degree=3, gamma='auto')
svc_clf.fit(X_train, y_train)
y_pred = svc_clf.predict(X_test)
print('Accuracy: %.2f' % accuracy_score(y_test, y_pred))
```

Accuracy: 0.53

```
[ ]: # Calculate the MSE
MSE = np.mean((y_pred - y_test)**2)
print('MSE: %.4f' % MSE)
```

MSE: 0.6993

```
[ ]: # Standardize the features
sc = StandardScaler()
sc.fit(X_train)
X_train_std = sc.transform(X_train)
X_test_std = sc.transform(X_test)
svc_clf.fit(X_train_std, y_train)
y_pred = svc_clf.predict(X_test_std)
print('Accuracy: %.2f' % accuracy_score(y_test, y_pred))
```

Accuracy: 0.63

```
[ ]: # Calculate the MSE
MSE = np.mean((y_pred - y_test)**2)
print('MSE: %.4f' % MSE)
```

MSE: 0.4869

```
[ ]: # Grid search for best parameters
param_grid = {'C': np.linspace(0.1, 10, 10),
              'gamma': np.linspace(0.1, 1, 10),
              'kernel': ['rbf', 'poly', 'sigmoid']}
grid = GridSearchCV(SVC(), param_grid, refit=True, verbose=3)
grid.fit(X_train_std, y_train)
print(grid.best_params_)
print(grid.best_estimator_)
grid_predictions = grid.predict(X_test_std)
print('Accuracy: %.4f' % accuracy_score(y_test, grid_predictions))
```

Fitting 5 folds for each of 300 candidates, totalling 1500 fits

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[CV 1/5] END ...C=0.1, gamma=0.1, kernel=rbf;; score=0.612 total time= 0.0s
[CV 2/5] END ...C=0.1, gamma=0.1, kernel=rbf;; score=0.579 total time= 0.0s
[CV 3/5] END ...C=0.1, gamma=0.1, kernel=rbf;; score=0.641 total time= 0.0s
[CV 4/5] END ...C=0.1, gamma=0.1, kernel=rbf;; score=0.564 total time= 0.0s
[CV 5/5] END ...C=0.1, gamma=0.1, kernel=rbf;; score=0.610 total time= 0.0s
[CV 1/5] END ...C=0.1, gamma=0.1, kernel=poly;; score=0.566 total time= 0.0s
[CV 2/5] END ...C=0.1, gamma=0.1, kernel=poly;; score=0.590 total time= 0.0s
[CV 3/5] END ...C=0.1, gamma=0.1, kernel=poly;; score=0.615 total time= 0.0s
```

c:\Users\quanh\AppData\Local\Programs\Python\Python310\lib\site-packages\sklearn\model_selection_split.py:700: UserWarning: The least populated class in y has only 3 members, which is less than n_splits=5.

warnings.warn(

```
[CV 4/5] END ...C=0.1, gamma=0.1, kernel=poly;; score=0.574 total time= 0.0s
[CV 5/5] END ...C=0.1, gamma=0.1, kernel=poly;; score=0.569 total time= 0.0s
[CV 1/5] END ..C=0.1, gamma=0.1, kernel=sigmoid;; score=0.597 total time= 0.0s
[CV 2/5] END ..C=0.1, gamma=0.1, kernel=sigmoid;; score=0.600 total time= 0.0s
[CV 3/5] END ..C=0.1, gamma=0.1, kernel=sigmoid;; score=0.615 total time= 0.0s
[CV 4/5] END ..C=0.1, gamma=0.1, kernel=sigmoid;; score=0.569 total time= 0.0s
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[CV 5/5] END ..C=0.1, gamma=0.1, kernel=sigmoid;; score=0.590 total time= 0.0s
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[CV 3/5] END ...C=0.1, gamma=0.2, kernel=rbf;; score=0.610 total time= 0.0s
[CV 4/5] END ...C=0.1, gamma=0.2, kernel=rbf;; score=0.590 total time= 0.0s
[CV 5/5] END ...C=0.1, gamma=0.2, kernel=rbf;; score=0.610 total time= 0.0s
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[CV 2/5] END ...C=0.1, gamma=0.2, kernel=poly;; score=0.554 total time= 0.0s
[CV 3/5] END ...C=0.1, gamma=0.2, kernel=poly;; score=0.667 total time= 0.0s
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[CV 5/5] END ..C=0.1, gamma=0.2, kernel=sigmoid;; score=0.538 total time= 0.0s
[CV 1/5] END C=0.1, gamma=0.30000000000000004, kernel=rbf;; score=0.582 total
time= 0.0s
[CV 2/5] END C=0.1, gamma=0.30000000000000004, kernel=rbf;; score=0.574 total
time= 0.0s
[CV 3/5] END C=0.1, gamma=0.30000000000000004, kernel=rbf;; score=0.585 total
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time= 0.0s
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time= 0.0s
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time= 0.0s
[CV 3/5] END C=0.1, gamma=0.30000000000000004, kernel=poly;; score=0.656 total
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time= 0.0s
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total time= 0.0s
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total time= 0.0s
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total time= 0.0s
[CV 4/5] END C=0.1, gamma=0.30000000000000004, kernel=sigmoid;; score=0.513
total time= 0.0s
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total time= 0.0s
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[CV 2/5] END ...C=0.1, gamma=0.4, kernel=poly;; score=0.538 total time= 0.0s
[CV 3/5] END ...C=0.1, gamma=0.4, kernel=poly;; score=0.626 total time= 0.0s
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[CV 5/5] END ...C=0.1, gamma=0.4, kernel=poly;; score=0.641 total time= 0.0s
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[CV 3/5] END ..C=0.1, gamma=0.4, kernel=sigmoid;; score=0.523 total time= 0.0s
[CV 4/5] END ..C=0.1, gamma=0.4, kernel=sigmoid;; score=0.487 total time= 0.0s
[CV 5/5] END ..C=0.1, gamma=0.4, kernel=sigmoid;; score=0.518 total time= 0.0s
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[CV 1/5] END ...C=0.1, gamma=0.6, kernel=rbf;; score=0.582 total time= 0.0s
[CV 2/5] END ...C=0.1, gamma=0.6, kernel=rbf;; score=0.421 total time= 0.0s
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[CV 5/5] END ...C=0.1, gamma=0.6, kernel=poly;; score=0.615 total time= 0.0s
[CV 1/5] END ..C=0.1, gamma=0.6, kernel=sigmoid;; score=0.536 total time= 0.0s
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[CV 4/5] END ..C=0.1, gamma=0.6, kernel=sigmoid;; score=0.482 total time= 0.0s
[CV 5/5] END ..C=0.1, gamma=0.6, kernel=sigmoid;; score=0.523 total time= 0.0s
[CV 1/5] END C=0.1, gamma=0.7000000000000001, kernel=rbf;; score=0.577 total
time= 0.0s
[CV 2/5] END C=0.1, gamma=0.7000000000000001, kernel=rbf;; score=0.421 total
time= 0.0s
[CV 3/5] END C=0.1, gamma=0.7000000000000001, kernel=rbf;; score=0.421 total

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time= 0.0s
[CV 4/5] END C=0.1, gamma=0.7000000000000001, kernel=rbf;; score=0.421 total
time= 0.0s
[CV 5/5] END C=0.1, gamma=0.7000000000000001, kernel=rbf;; score=0.421 total
time= 0.0s
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time= 0.0s
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time= 0.0s
[CV 3/5] END C=0.1, gamma=0.7000000000000001, kernel=poly;; score=0.574 total
time= 0.0s
[CV 4/5] END C=0.1, gamma=0.7000000000000001, kernel=poly;; score=0.641 total
time= 0.0s
[CV 5/5] END C=0.1, gamma=0.7000000000000001, kernel=poly;; score=0.595 total
time= 0.0s
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time= 0.0s
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time= 0.0s
[CV 5/5] END C=0.1, gamma=0.7000000000000001, kernel=sigmoid;; score=0.518 total
time= 0.0s
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[CV 2/5] END ..C=0.1, gamma=0.8, kernel=rbf;; score=0.421 total time= 0.0s
[CV 3/5] END ..C=0.1, gamma=0.8, kernel=rbf;; score=0.421 total time= 0.0s
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[CV 5/5] END ..C=0.1, gamma=0.8, kernel=rbf;; score=0.421 total time= 0.0s
[CV 1/5] END ..C=0.1, gamma=0.8, kernel=poly;; score=0.536 total time= 0.0s
[CV 2/5] END ..C=0.1, gamma=0.8, kernel=poly;; score=0.549 total time= 0.0s
[CV 3/5] END ..C=0.1, gamma=0.8, kernel=poly;; score=0.564 total time= 0.0s
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[CV 5/5] END ..C=0.1, gamma=0.8, kernel=poly;; score=0.590 total time= 0.0s
[CV 1/5] END ..C=0.1, gamma=0.8, kernel=sigmoid;; score=0.536 total time= 0.0s
[CV 2/5] END ..C=0.1, gamma=0.8, kernel=sigmoid;; score=0.482 total time= 0.0s
[CV 3/5] END ..C=0.1, gamma=0.8, kernel=sigmoid;; score=0.518 total time= 0.0s
[CV 4/5] END ..C=0.1, gamma=0.8, kernel=sigmoid;; score=0.492 total time= 0.0s
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[CV 3/5] END ...C=0.1, gamma=0.9, kernel=rbf;; score=0.421 total time= 0.0s
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[CV 5/5] END ...C=0.1, gamma=0.9, kernel=rbf;; score=0.421 total time= 0.0s
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[CV 3/5] END ...C=0.1, gamma=0.9, kernel=poly;; score=0.590 total time= 0.0s

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[CV 4/5] END ..C=0.1, gamma=0.9, kernel=poly;;, score=0.626 total time= 0.0s
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[CV 4/5] END ..C=0.1, gamma=0.9, kernel=sigmoid;;, score=0.492 total time= 0.0s
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[CV 1/5] END ..C=0.1, gamma=1.0, kernel=poly;;, score=0.551 total time= 0.0s
[CV 2/5] END ..C=0.1, gamma=1.0, kernel=poly;;, score=0.518 total time= 0.0s
[CV 3/5] END ..C=0.1, gamma=1.0, kernel=poly;;, score=0.569 total time= 0.1s
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time= 0.0s
[CV 4/5] END C=1.2000000000000002, gamma=0.1, kernel=rbf;;, score=0.646 total
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time= 0.0s
[CV 3/5] END C=1.2000000000000002, gamma=0.1, kernel=sigmoid;;, score=0.497 total
time= 0.0s

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[CV 4/5] END C=1.2000000000000002, gamma=0.1, kernel=sigmoid;, score=0.467 total
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 time= 0.0s
 [CV 3/5] END C=1.2000000000000002, gamma=0.2, kernel=rbf;, score=0.682 total
 time= 0.0s
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 time= 0.0s
 [CV 5/5] END C=1.2000000000000002, gamma=0.2, kernel=rbf;, score=0.656 total
 time= 0.0s
 [CV 1/5] END C=1.2000000000000002, gamma=0.2, kernel=poly;, score=0.566 total
 time= 0.0s
 [CV 2/5] END C=1.2000000000000002, gamma=0.2, kernel=poly;, score=0.538 total
 time= 0.0s
 [CV 3/5] END C=1.2000000000000002, gamma=0.2, kernel=poly;, score=0.590 total
 time= 0.0s
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 [CV 2/5] END C=1.2000000000000002, gamma=0.2, kernel=sigmoid;, score=0.472 total
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 [CV 3/5] END C=1.2000000000000002, gamma=0.2, kernel=sigmoid;, score=0.482 total
 time= 0.0s
 [CV 4/5] END C=1.2000000000000002, gamma=0.2, kernel=sigmoid;, score=0.467 total
 time= 0.0s
 [CV 5/5] END C=1.2000000000000002, gamma=0.2, kernel=sigmoid;, score=0.487 total
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 time= 0.0s
 [CV 3/5] END C=1.2000000000000002, gamma=0.4, kernel=rbf;; score=0.667 total
 time= 0.0s
 [CV 4/5] END C=1.2000000000000002, gamma=0.4, kernel=rbf;; score=0.697 total
 time= 0.0s
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 [CV 3/5] END C=1.2000000000000002, gamma=0.4, kernel=poly;; score=0.579 total
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 time= 0.0s
 [CV 5/5] END C=1.2000000000000002, gamma=0.4, kernel=poly;; score=0.569 total
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 [CV 2/5] END C=1.2000000000000002, gamma=0.4, kernel=sigmoid;; score=0.503 total
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 [CV 4/5] END C=1.2000000000000002, gamma=0.4, kernel=sigmoid;; score=0.456 total
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 [CV 5/5] END C=1.2000000000000002, gamma=0.4, kernel=sigmoid;; score=0.415 total
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[CV 2/5] END C=1.2000000000000002, gamma=0.5, kernel=rbf;; score=0.651 total
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 [CV 3/5] END C=1.2000000000000002, gamma=0.5, kernel=rbf;; score=0.646 total
 time= 0.0s
 [CV 4/5] END C=1.2000000000000002, gamma=0.5, kernel=rbf;; score=0.697 total
 time= 0.0s
 [CV 5/5] END C=1.2000000000000002, gamma=0.5, kernel=rbf;; score=0.662 total
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 [CV 5/5] END C=1.2000000000000002, gamma=0.5, kernel=poly;; score=0.595 total
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 [CV 4/5] END C=1.2000000000000002, gamma=0.6, kernel=rbf;; score=0.687 total
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 [CV 5/5] END C=1.2000000000000002, gamma=0.6, kernel=rbf;; score=0.651 total
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 [CV 1/5] END C=1.2000000000000002, gamma=0.6, kernel=poly;; score=0.526 total
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 [CV 2/5] END C=1.2000000000000002, gamma=0.6, kernel=poly;; score=0.538 total
 time= 0.1s
 [CV 3/5] END C=1.2000000000000002, gamma=0.6, kernel=poly;; score=0.564 total
 time= 0.1s
 [CV 4/5] END C=1.2000000000000002, gamma=0.6, kernel=poly;; score=0.610 total
 time= 0.2s
 [CV 5/5] END C=1.2000000000000002, gamma=0.6, kernel=poly;; score=0.579 total
 time= 0.1s

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 [CV 4/5] END C=1.2000000000000002, gamma=0.7000000000000001, kernel=rbf;, score=0.672 total time= 0.0s
 [CV 5/5] END C=1.2000000000000002, gamma=0.7000000000000001, kernel=rbf;, score=0.656 total time= 0.0s
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 [CV 3/5] END C=1.2000000000000002, gamma=0.7000000000000001, kernel=poly;, score=0.538 total time= 0.2s
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 [CV 2/5] END C=1.2000000000000002, gamma=0.7000000000000001, kernel=sigmoid;, score=0.477 total time= 0.0s
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 [CV 4/5] END C=1.2000000000000002, gamma=0.7000000000000001, kernel=sigmoid;, score=0.462 total time= 0.0s
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 [CV 3/5] END C=1.2000000000000002, gamma=0.8, kernel=rbf;, score=0.646 total time= 0.0s
 [CV 4/5] END C=1.2000000000000002, gamma=0.8, kernel=rbf;, score=0.677 total time= 0.0s

[CV 5/5] END C=1.2000000000000002, gamma=0.8, kernel=rbf;; score=0.651 total
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 [CV 1/5] END C=1.2000000000000002, gamma=0.8, kernel=poly;; score=0.531 total
 time= 0.6s
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 [CV 3/5] END C=1.2000000000000002, gamma=0.8, kernel=poly;; score=0.554 total
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 [CV 4/5] END C=1.2000000000000002, gamma=0.8, kernel=sigmoid;; score=0.446 total
 time= 0.0s
 [CV 5/5] END C=1.2000000000000002, gamma=0.8, kernel=sigmoid;; score=0.482 total
 time= 0.0s
 [CV 1/5] END C=1.2000000000000002, gamma=0.9, kernel=rbf;; score=0.633 total
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 [CV 2/5] END C=1.2000000000000002, gamma=0.9, kernel=rbf;; score=0.605 total
 time= 0.0s
 [CV 3/5] END C=1.2000000000000002, gamma=0.9, kernel=rbf;; score=0.646 total
 time= 0.0s
 [CV 4/5] END C=1.2000000000000002, gamma=0.9, kernel=rbf;; score=0.662 total
 time= 0.0s
 [CV 5/5] END C=1.2000000000000002, gamma=0.9, kernel=rbf;; score=0.651 total
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 [CV 2/5] END C=1.2000000000000002, gamma=0.9, kernel=sigmoid;; score=0.528 total
 time= 0.0s
 [CV 3/5] END C=1.2000000000000002, gamma=0.9, kernel=sigmoid;; score=0.472 total
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[CV 4/5] END C=1.2000000000000002, gamma=0.9, kernel=sigmoid;, score=0.462 total
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 [CV 5/5] END C=1.2000000000000002, gamma=0.9, kernel=sigmoid;, score=0.482 total
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 [CV 5/5] END C=1.2000000000000002, gamma=1.0, kernel=rbf;, score=0.651 total
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 [CV 5/5] END C=2.3000000000000003, gamma=0.1, kernel=poly;; score=0.631 total
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 [CV 5/5] END C=2.3000000000000003, gamma=0.2, kernel=sigmoid;; score=0.497 total
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 [CV 2/5] END C=2.3000000000000003, gamma=0.5, kernel=poly;, score=0.528 total
 time= 0.2s
 [CV 3/5] END C=2.3000000000000003, gamma=0.5, kernel=poly;, score=0.554 total
 time= 0.1s
 [CV 4/5] END C=2.3000000000000003, gamma=0.5, kernel=poly;, score=0.605 total
 time= 0.3s
 [CV 5/5] END C=2.3000000000000003, gamma=0.5, kernel=poly;, score=0.564 total
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 [CV 1/5] END C=2.3000000000000003, gamma=0.5, kernel=sigmoid;, score=0.429 total
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 [CV 3/5] END C=2.3000000000000003, gamma=0.5, kernel=sigmoid;, score=0.467 total
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 [CV 2/5] END C=2.3000000000000003, gamma=0.6, kernel=rbf;, score=0.615 total
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 [CV 3/5] END C=2.3000000000000003, gamma=0.6, kernel=rbf;, score=0.672 total
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 [CV 4/5] END C=2.3000000000000003, gamma=0.6, kernel=rbf;, score=0.667 total
 time= 0.0s

[CV 5/5] END C=2.3000000000000003, gamma=0.6, kernel=rbf;; score=0.646 total
 time= 0.0s
 [CV 1/5] END C=2.3000000000000003, gamma=0.6, kernel=poly;; score=0.520 total
 time= 0.4s
 [CV 2/5] END C=2.3000000000000003, gamma=0.6, kernel=poly;; score=0.538 total
 time= 0.2s
 [CV 3/5] END C=2.3000000000000003, gamma=0.6, kernel=poly;; score=0.533 total
 time= 0.2s
 [CV 4/5] END C=2.3000000000000003, gamma=0.6, kernel=poly;; score=0.600 total
 time= 0.6s
 [CV 5/5] END C=2.3000000000000003, gamma=0.6, kernel=poly;; score=0.574 total
 time= 0.3s
 [CV 1/5] END C=2.3000000000000003, gamma=0.6, kernel=sigmoid;; score=0.469 total
 time= 0.0s
 [CV 2/5] END C=2.3000000000000003, gamma=0.6, kernel=sigmoid;; score=0.497 total
 time= 0.0s
 [CV 3/5] END C=2.3000000000000003, gamma=0.6, kernel=sigmoid;; score=0.441 total
 time= 0.0s
 [CV 4/5] END C=2.3000000000000003, gamma=0.6, kernel=sigmoid;; score=0.441 total
 time= 0.0s
 [CV 5/5] END C=2.3000000000000003, gamma=0.6, kernel=sigmoid;; score=0.513 total
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 score=0.692 total time= 0.0s
 [CV 4/5] END C=2.3000000000000003, gamma=0.7000000000000001, kernel=rbf;;
 score=0.662 total time= 0.0s
 [CV 5/5] END C=2.3000000000000003, gamma=0.7000000000000001, kernel=rbf;;
 score=0.656 total time= 0.0s
 [CV 1/5] END C=2.3000000000000003, gamma=0.7000000000000001, kernel=poly;;
 score=0.536 total time= 0.5s
 [CV 2/5] END C=2.3000000000000003, gamma=0.7000000000000001, kernel=poly;;
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 score=0.590 total time= 0.8s
 [CV 5/5] END C=2.3000000000000003, gamma=0.7000000000000001, kernel=poly;;
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 [CV 1/5] END C=2.3000000000000003, gamma=0.7000000000000001, kernel=sigmoid;;
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[CV 4/5] END C=2.3000000000000003, gamma=0.7000000000000001, kernel=sigmoid;;
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 [CV 2/5] END C=2.3000000000000003, gamma=0.8, kernel=rbf;; score=0.605 total
 time= 0.0s
 [CV 3/5] END C=2.3000000000000003, gamma=0.8, kernel=rbf;; score=0.667 total
 time= 0.0s
 [CV 4/5] END C=2.3000000000000003, gamma=0.8, kernel=rbf;; score=0.672 total
 time= 0.0s
 [CV 5/5] END C=2.3000000000000003, gamma=0.8, kernel=rbf;; score=0.651 total
 time= 0.0s
 [CV 1/5] END C=2.3000000000000003, gamma=0.8, kernel=poly;; score=0.566 total
 time= 0.5s
 [CV 2/5] END C=2.3000000000000003, gamma=0.8, kernel=poly;; score=0.528 total
 time= 0.6s
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 [CV 5/5] END C=2.3000000000000003, gamma=0.8, kernel=poly;; score=0.579 total
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 [CV 1/5] END C=2.3000000000000003, gamma=0.8, kernel=sigmoid;; score=0.449 total
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 [CV 2/5] END C=2.3000000000000003, gamma=0.8, kernel=sigmoid;; score=0.508 total
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 [CV 3/5] END C=2.3000000000000003, gamma=0.8, kernel=sigmoid;; score=0.477 total
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 [CV 4/5] END C=2.3000000000000003, gamma=0.8, kernel=sigmoid;; score=0.441 total
 time= 0.0s
 [CV 5/5] END C=2.3000000000000003, gamma=0.8, kernel=sigmoid;; score=0.467 total
 time= 0.0s
 [CV 1/5] END C=2.3000000000000003, gamma=0.9, kernel=rbf;; score=0.602 total
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 [CV 2/5] END C=2.3000000000000003, gamma=0.9, kernel=rbf;; score=0.595 total
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 [CV 3/5] END C=2.3000000000000003, gamma=0.9, kernel=rbf;; score=0.656 total
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 [CV 4/5] END C=2.3000000000000003, gamma=0.9, kernel=rbf;; score=0.662 total
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 [CV 5/5] END C=2.3000000000000003, gamma=0.9, kernel=rbf;; score=0.662 total
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 [CV 1/5] END C=2.3000000000000003, gamma=0.9, kernel=poly;; score=0.556 total
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 [CV 2/5] END C=2.3000000000000003, gamma=0.9, kernel=poly;; score=0.518 total
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[CV 3/5] END C=2.3000000000000003, gamma=0.9, kernel=poly;; score=0.574 total
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 [CV 4/5] END C=2.3000000000000003, gamma=0.9, kernel=poly;; score=0.579 total
 time= 1.4s
 [CV 5/5] END C=2.3000000000000003, gamma=0.9, kernel=poly;; score=0.574 total
 time= 0.9s
 [CV 1/5] END C=2.3000000000000003, gamma=0.9, kernel=sigmoid;; score=0.439 total
 time= 0.0s
 [CV 2/5] END C=2.3000000000000003, gamma=0.9, kernel=sigmoid;; score=0.513 total
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 [CV 3/5] END C=2.3000000000000003, gamma=0.9, kernel=sigmoid;; score=0.472 total
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 [CV 4/5] END C=2.3000000000000003, gamma=0.9, kernel=sigmoid;; score=0.436 total
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 [CV 5/5] END C=2.3000000000000003, gamma=0.9, kernel=sigmoid;; score=0.508 total
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 [CV 3/5] END C=2.3000000000000003, gamma=1.0, kernel=rbf;; score=0.667 total
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 [CV 4/5] END C=2.3000000000000003, gamma=1.0, kernel=rbf;; score=0.651 total
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 [CV 5/5] END C=2.3000000000000003, gamma=1.0, kernel=rbf;; score=0.667 total
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 [CV 1/5] END C=2.3000000000000003, gamma=1.0, kernel=poly;; score=0.577 total
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 [CV 3/5] END C=2.3000000000000003, gamma=1.0, kernel=poly;; score=0.569 total
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 [CV 4/5] END C=2.3000000000000003, gamma=1.0, kernel=poly;; score=0.569 total
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 [CV 5/5] END C=2.3000000000000003, gamma=1.0, kernel=poly;; score=0.574 total
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 [CV 2/5] END C=2.3000000000000003, gamma=1.0, kernel=sigmoid;; score=0.497 total
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 [CV 3/5] END C=2.3000000000000003, gamma=1.0, kernel=sigmoid;; score=0.472 total
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 [CV 4/5] END C=2.3000000000000003, gamma=1.0, kernel=sigmoid;; score=0.446 total
 time= 0.0s
 [CV 5/5] END C=2.3000000000000003, gamma=1.0, kernel=sigmoid;; score=0.497 total
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 time= 0.0s

[CV 2/5] END C=3.4000000000000004, gamma=0.1, kernel=rbf;; score=0.569 total
 time= 0.0s
 [CV 3/5] END C=3.4000000000000004, gamma=0.1, kernel=rbf;; score=0.646 total
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 [CV 4/5] END C=3.4000000000000004, gamma=0.1, kernel=rbf;; score=0.677 total
 time= 0.0s
 [CV 5/5] END C=3.4000000000000004, gamma=0.1, kernel=rbf;; score=0.703 total
 time= 0.0s
 [CV 1/5] END C=3.4000000000000004, gamma=0.1, kernel=poly;; score=0.592 total
 time= 0.0s
 [CV 2/5] END C=3.4000000000000004, gamma=0.1, kernel=poly;; score=0.528 total
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 [CV 4/5] END C=3.4000000000000004, gamma=0.1, kernel=poly;; score=0.667 total
 time= 0.0s
 [CV 5/5] END C=3.4000000000000004, gamma=0.1, kernel=poly;; score=0.651 total
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 [CV 1/5] END C=3.4000000000000004, gamma=0.1, kernel=sigmoid;; score=0.566 total
 time= 0.0s
 [CV 2/5] END C=3.4000000000000004, gamma=0.1, kernel=sigmoid;; score=0.503 total
 time= 0.0s
 [CV 3/5] END C=3.4000000000000004, gamma=0.1, kernel=sigmoid;; score=0.487 total
 time= 0.0s
 [CV 4/5] END C=3.4000000000000004, gamma=0.1, kernel=sigmoid;; score=0.456 total
 time= 0.0s
 [CV 5/5] END C=3.4000000000000004, gamma=0.1, kernel=sigmoid;; score=0.467 total
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 [CV 2/5] END C=3.4000000000000004, gamma=0.2, kernel=rbf;; score=0.595 total
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 [CV 3/5] END C=3.4000000000000004, gamma=0.2, kernel=rbf;; score=0.662 total
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 [CV 5/5] END C=3.4000000000000004, gamma=0.2, kernel=rbf;; score=0.656 total
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 [CV 2/5] END C=3.4000000000000004, gamma=0.2, kernel=poly;; score=0.538 total
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 [CV 3/5] END C=3.4000000000000004, gamma=0.2, kernel=poly;; score=0.590 total
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 [CV 4/5] END C=3.4000000000000004, gamma=0.2, kernel=poly;; score=0.641 total
 time= 0.0s
 [CV 5/5] END C=3.4000000000000004, gamma=0.2, kernel=poly;; score=0.595 total
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[CV 1/5] END C=3.4000000000000004, gamma=0.2, kernel=sigmoid;, score=0.490 total
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 [CV 2/5] END C=3.4000000000000004, gamma=0.2, kernel=sigmoid;, score=0.467 total
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 [CV 4/5] END C=3.4000000000000004, gamma=0.2, kernel=sigmoid;, score=0.462 total
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 [CV 5/5] END C=3.4000000000000004, gamma=0.2, kernel=sigmoid;, score=0.492 total
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 [CV 3/5] END C=3.4000000000000004, gamma=0.3000000000000004, kernel=rbf;,
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 [CV 5/5] END C=3.4000000000000004, gamma=0.3000000000000004, kernel=sigmoid;,
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 [CV 4/5] END C=3.4000000000000004, gamma=0.4, kernel=rbf;, score=0.651 total
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[CV 5/5] END C=3.4000000000000004, gamma=0.4, kernel=rbf;; score=0.667 total
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 [CV 1/5] END C=3.4000000000000004, gamma=0.4, kernel=poly;; score=0.536 total
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 [CV 4/5] END C=3.4000000000000004, gamma=0.4, kernel=poly;; score=0.615 total
 time= 0.3s
 [CV 5/5] END C=3.4000000000000004, gamma=0.4, kernel=poly;; score=0.579 total
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 [CV 1/5] END C=3.4000000000000004, gamma=0.4, kernel=sigmoid;; score=0.464 total
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 [CV 4/5] END C=3.4000000000000004, gamma=0.4, kernel=sigmoid;; score=0.456 total
 time= 0.0s
 [CV 5/5] END C=3.4000000000000004, gamma=0.4, kernel=sigmoid;; score=0.456 total
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 [CV 5/5] END C=3.4000000000000004, gamma=0.5, kernel=rbf;; score=0.662 total
 time= 0.0s
 [CV 1/5] END C=3.4000000000000004, gamma=0.5, kernel=poly;; score=0.510 total
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 [CV 3/5] END C=3.4000000000000004, gamma=0.5, kernel=poly;; score=0.538 total
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 [CV 5/5] END C=3.4000000000000004, gamma=0.5, kernel=poly;; score=0.564 total
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 [CV 1/5] END C=3.4000000000000004, gamma=0.5, kernel=sigmoid;; score=0.408 total
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 [CV 2/5] END C=3.4000000000000004, gamma=0.5, kernel=sigmoid;; score=0.462 total
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 [CV 3/5] END C=3.4000000000000004, gamma=0.5, kernel=sigmoid;; score=0.462 total
 time= 0.0s

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 time= 0.5s
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 time= 0.4s
 [CV 3/5] END C=3.4000000000000004, gamma=0.6, kernel=poly;, score=0.569 total
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 [CV 3/5] END C=3.4000000000000004, gamma=0.6, kernel=sigmoid;, score=0.492 total
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 [CV 5/5] END C=3.4000000000000004, gamma=0.6, kernel=sigmoid;, score=0.492 total
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 score=0.667 total time= 0.0s
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 [CV 2/5] END C=3.4000000000000004, gamma=0.7000000000000001, kernel=poly;,
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[CV 3/5] END C=3.4000000000000004, gamma=0.7000000000000001, kernel=poly;;
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 [CV 5/5] END C=3.4000000000000004, gamma=0.7000000000000001, kernel=poly;;
 score=0.579 total time= 0.8s
 [CV 1/5] END C=3.4000000000000004, gamma=0.7000000000000001, kernel=sigmoid;;
 score=0.454 total time= 0.0s
 [CV 2/5] END C=3.4000000000000004, gamma=0.7000000000000001, kernel=sigmoid;;
 score=0.497 total time= 0.0s
 [CV 3/5] END C=3.4000000000000004, gamma=0.7000000000000001, kernel=sigmoid;;
 score=0.497 total time= 0.0s
 [CV 4/5] END C=3.4000000000000004, gamma=0.7000000000000001, kernel=sigmoid;;
 score=0.446 total time= 0.0s
 [CV 5/5] END C=3.4000000000000004, gamma=0.7000000000000001, kernel=sigmoid;;
 score=0.400 total time= 0.0s
 [CV 1/5] END C=3.4000000000000004, gamma=0.8, kernel=rbf;; score=0.607 total
 time= 0.0s
 [CV 2/5] END C=3.4000000000000004, gamma=0.8, kernel=rbf;; score=0.595 total
 time= 0.0s
 [CV 3/5] END C=3.4000000000000004, gamma=0.8, kernel=rbf;; score=0.677 total
 time= 0.0s
 [CV 4/5] END C=3.4000000000000004, gamma=0.8, kernel=rbf;; score=0.672 total
 time= 0.0s
 [CV 5/5] END C=3.4000000000000004, gamma=0.8, kernel=rbf;; score=0.667 total
 time= 0.0s
 [CV 1/5] END C=3.4000000000000004, gamma=0.8, kernel=poly;; score=0.556 total
 time= 0.9s
 [CV 2/5] END C=3.4000000000000004, gamma=0.8, kernel=poly;; score=0.518 total
 time= 0.7s
 [CV 3/5] END C=3.4000000000000004, gamma=0.8, kernel=poly;; score=0.574 total
 time= 1.5s
 [CV 4/5] END C=3.4000000000000004, gamma=0.8, kernel=poly;; score=0.574 total
 time= 1.4s
 [CV 5/5] END C=3.4000000000000004, gamma=0.8, kernel=poly;; score=0.579 total
 time= 1.1s
 [CV 1/5] END C=3.4000000000000004, gamma=0.8, kernel=sigmoid;; score=0.444 total
 time= 0.0s
 [CV 2/5] END C=3.4000000000000004, gamma=0.8, kernel=sigmoid;; score=0.518 total
 time= 0.0s
 [CV 3/5] END C=3.4000000000000004, gamma=0.8, kernel=sigmoid;; score=0.462 total
 time= 0.0s
 [CV 4/5] END C=3.4000000000000004, gamma=0.8, kernel=sigmoid;; score=0.446 total
 time= 0.0s
 [CV 5/5] END C=3.4000000000000004, gamma=0.8, kernel=sigmoid;; score=0.508 total
 time= 0.0s
 [CV 1/5] END C=3.4000000000000004, gamma=0.9, kernel=rbf;; score=0.602 total
 time= 0.0s

[CV 2/5] END C=3.4000000000000004, gamma=0.9, kernel=rbf;; score=0.595 total
 time= 0.0s
 [CV 3/5] END C=3.4000000000000004, gamma=0.9, kernel=rbf;; score=0.662 total
 time= 0.0s
 [CV 4/5] END C=3.4000000000000004, gamma=0.9, kernel=rbf;; score=0.662 total
 time= 0.0s
 [CV 5/5] END C=3.4000000000000004, gamma=0.9, kernel=rbf;; score=0.667 total
 time= 0.0s
 [CV 1/5] END C=3.4000000000000004, gamma=0.9, kernel=poly;; score=0.566 total
 time= 1.0s
 [CV 2/5] END C=3.4000000000000004, gamma=0.9, kernel=poly;; score=0.533 total
 time= 0.8s
 [CV 3/5] END C=3.4000000000000004, gamma=0.9, kernel=poly;; score=0.569 total
 time= 2.3s
 [CV 4/5] END C=3.4000000000000004, gamma=0.9, kernel=poly;; score=0.569 total
 time= 1.5s
 [CV 5/5] END C=3.4000000000000004, gamma=0.9, kernel=poly;; score=0.574 total
 time= 1.1s
 [CV 1/5] END C=3.4000000000000004, gamma=0.9, kernel=sigmoid;; score=0.434 total
 time= 0.0s
 [CV 2/5] END C=3.4000000000000004, gamma=0.9, kernel=sigmoid;; score=0.503 total
 time= 0.0s
 [CV 3/5] END C=3.4000000000000004, gamma=0.9, kernel=sigmoid;; score=0.456 total
 time= 0.0s
 [CV 4/5] END C=3.4000000000000004, gamma=0.9, kernel=sigmoid;; score=0.446 total
 time= 0.0s
 [CV 5/5] END C=3.4000000000000004, gamma=0.9, kernel=sigmoid;; score=0.518 total
 time= 0.0s
 [CV 1/5] END C=3.4000000000000004, gamma=1.0, kernel=rbf;; score=0.602 total
 time= 0.0s
 [CV 2/5] END C=3.4000000000000004, gamma=1.0, kernel=rbf;; score=0.574 total
 time= 0.0s
 [CV 3/5] END C=3.4000000000000004, gamma=1.0, kernel=rbf;; score=0.672 total
 time= 0.0s
 [CV 4/5] END C=3.4000000000000004, gamma=1.0, kernel=rbf;; score=0.651 total
 time= 0.0s
 [CV 5/5] END C=3.4000000000000004, gamma=1.0, kernel=rbf;; score=0.667 total
 time= 0.0s
 [CV 1/5] END C=3.4000000000000004, gamma=1.0, kernel=poly;; score=0.561 total
 time= 1.1s
 [CV 2/5] END C=3.4000000000000004, gamma=1.0, kernel=poly;; score=0.513 total
 time= 1.1s
 [CV 3/5] END C=3.4000000000000004, gamma=1.0, kernel=poly;; score=0.559 total
 time= 2.2s
 [CV 4/5] END C=3.4000000000000004, gamma=1.0, kernel=poly;; score=0.574 total
 time= 2.2s
 [CV 5/5] END C=3.4000000000000004, gamma=1.0, kernel=poly;; score=0.585 total
 time= 1.6s


```

[CV 1/5] END C=3.4000000000000004, gamma=1.0, kernel=sigmoid;, score=0.474 total
time= 0.0s
[CV 2/5] END C=3.4000000000000004, gamma=1.0, kernel=sigmoid;, score=0.508 total
time= 0.0s
[CV 3/5] END C=3.4000000000000004, gamma=1.0, kernel=sigmoid;, score=0.497 total
time= 0.0s
[CV 4/5] END C=3.4000000000000004, gamma=1.0, kernel=sigmoid;, score=0.456 total
time= 0.0s
[CV 5/5] END C=3.4000000000000004, gamma=1.0, kernel=sigmoid;, score=0.508 total
time= 0.0s
[CV 1/5] END ..C=4.5, gamma=0.1, kernel=rbf;, score=0.607 total time= 0.0s
[CV 2/5] END ..C=4.5, gamma=0.1, kernel=rbf;, score=0.564 total time= 0.0s
[CV 3/5] END ..C=4.5, gamma=0.1, kernel=rbf;, score=0.621 total time= 0.0s
[CV 4/5] END ..C=4.5, gamma=0.1, kernel=rbf;, score=0.692 total time= 0.0s
[CV 5/5] END ..C=4.5, gamma=0.1, kernel=rbf;, score=0.687 total time= 0.0s
[CV 1/5] END ..C=4.5, gamma=0.1, kernel=poly;, score=0.577 total time= 0.0s
[CV 2/5] END ..C=4.5, gamma=0.1, kernel=poly;, score=0.518 total time= 0.0s
[CV 3/5] END ..C=4.5, gamma=0.1, kernel=poly;, score=0.631 total time= 0.0s
[CV 4/5] END ..C=4.5, gamma=0.1, kernel=poly;, score=0.667 total time= 0.0s
[CV 5/5] END ..C=4.5, gamma=0.1, kernel=poly;, score=0.656 total time= 0.0s
[CV 1/5] END ..C=4.5, gamma=0.1, kernel=sigmoid;, score=0.551 total time= 0.0s
[CV 2/5] END ..C=4.5, gamma=0.1, kernel=sigmoid;, score=0.497 total time= 0.0s
[CV 3/5] END ..C=4.5, gamma=0.1, kernel=sigmoid;, score=0.508 total time= 0.0s
[CV 4/5] END ..C=4.5, gamma=0.1, kernel=sigmoid;, score=0.451 total time= 0.0s
[CV 5/5] END ..C=4.5, gamma=0.1, kernel=sigmoid;, score=0.482 total time= 0.0s
[CV 1/5] END ...C=4.5, gamma=0.2, kernel=rbf;, score=0.648 total time= 0.0s
[CV 2/5] END ...C=4.5, gamma=0.2, kernel=rbf;, score=0.590 total time= 0.0s
[CV 3/5] END ...C=4.5, gamma=0.2, kernel=rbf;, score=0.651 total time= 0.0s
[CV 4/5] END ...C=4.5, gamma=0.2, kernel=rbf;, score=0.667 total time= 0.0s
[CV 5/5] END ...C=4.5, gamma=0.2, kernel=rbf;, score=0.672 total time= 0.0s
[CV 1/5] END ...C=4.5, gamma=0.2, kernel=poly;, score=0.551 total time= 0.0s
[CV 2/5] END ...C=4.5, gamma=0.2, kernel=poly;, score=0.549 total time= 0.0s
[CV 3/5] END ...C=4.5, gamma=0.2, kernel=poly;, score=0.579 total time= 0.0s
[CV 4/5] END ...C=4.5, gamma=0.2, kernel=poly;, score=0.641 total time= 0.0s
[CV 5/5] END ...C=4.5, gamma=0.2, kernel=poly;, score=0.605 total time= 0.0s
[CV 1/5] END ..C=4.5, gamma=0.2, kernel=sigmoid;, score=0.485 total time= 0.0s
[CV 2/5] END ..C=4.5, gamma=0.2, kernel=sigmoid;, score=0.467 total time= 0.0s
[CV 3/5] END ..C=4.5, gamma=0.2, kernel=sigmoid;, score=0.441 total time= 0.0s
[CV 4/5] END ..C=4.5, gamma=0.2, kernel=sigmoid;, score=0.462 total time= 0.0s
[CV 5/5] END ..C=4.5, gamma=0.2, kernel=sigmoid;, score=0.492 total time= 0.0s
[CV 1/5] END C=4.5, gamma=0.3000000000000004, kernel=rbf;, score=0.638 total
time= 0.0s
[CV 2/5] END C=4.5, gamma=0.3000000000000004, kernel=rbf;, score=0.600 total
time= 0.0s
[CV 3/5] END C=4.5, gamma=0.3000000000000004, kernel=rbf;, score=0.667 total
time= 0.0s
[CV 4/5] END C=4.5, gamma=0.3000000000000004, kernel=rbf;, score=0.641 total
time= 0.0s

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[CV 5/5] END C=4.5, gamma=0.30000000000000004, kernel=rbf;; score=0.682 total
time= 0.0s
[CV 1/5] END C=4.5, gamma=0.30000000000000004, kernel=poly;; score=0.551 total
time= 0.0s
[CV 2/5] END C=4.5, gamma=0.30000000000000004, kernel=poly;; score=0.523 total
time= 0.0s
[CV 3/5] END C=4.5, gamma=0.30000000000000004, kernel=poly;; score=0.569 total
time= 0.1s
[CV 4/5] END C=4.5, gamma=0.30000000000000004, kernel=poly;; score=0.610 total
time= 0.1s
[CV 5/5] END C=4.5, gamma=0.30000000000000004, kernel=poly;; score=0.585 total
time= 0.1s
[CV 1/5] END C=4.5, gamma=0.30000000000000004, kernel=sigmoid;; score=0.459
total time= 0.0s
[CV 2/5] END C=4.5, gamma=0.30000000000000004, kernel=sigmoid;; score=0.456
total time= 0.0s
[CV 3/5] END C=4.5, gamma=0.30000000000000004, kernel=sigmoid;; score=0.477
total time= 0.0s
[CV 4/5] END C=4.5, gamma=0.30000000000000004, kernel=sigmoid;; score=0.482
total time= 0.0s
[CV 5/5] END C=4.5, gamma=0.30000000000000004, kernel=sigmoid;; score=0.467
total time= 0.0s
[CV 1/5] END ...C=4.5, gamma=0.4, kernel=rbf;; score=0.607 total time= 0.0s
[CV 2/5] END ...C=4.5, gamma=0.4, kernel=rbf;; score=0.621 total time= 0.0s
[CV 3/5] END ...C=4.5, gamma=0.4, kernel=rbf;; score=0.667 total time= 0.0s
[CV 4/5] END ...C=4.5, gamma=0.4, kernel=rbf;; score=0.615 total time= 0.0s
[CV 5/5] END ...C=4.5, gamma=0.4, kernel=rbf;; score=0.667 total time= 0.0s
[CV 1/5] END ...C=4.5, gamma=0.4, kernel=poly;; score=0.520 total time= 0.1s
[CV 2/5] END ...C=4.5, gamma=0.4, kernel=poly;; score=0.528 total time= 0.1s
[CV 3/5] END ...C=4.5, gamma=0.4, kernel=poly;; score=0.554 total time= 0.2s
[CV 4/5] END ...C=4.5, gamma=0.4, kernel=poly;; score=0.605 total time= 0.3s
[CV 5/5] END ...C=4.5, gamma=0.4, kernel=poly;; score=0.564 total time= 0.2s
[CV 1/5] END ..C=4.5, gamma=0.4, kernel=sigmoid;; score=0.454 total time= 0.0s
[CV 2/5] END ..C=4.5, gamma=0.4, kernel=sigmoid;; score=0.487 total time= 0.0s
[CV 3/5] END ..C=4.5, gamma=0.4, kernel=sigmoid;; score=0.467 total time= 0.0s
[CV 4/5] END ..C=4.5, gamma=0.4, kernel=sigmoid;; score=0.487 total time= 0.0s
[CV 5/5] END ..C=4.5, gamma=0.4, kernel=sigmoid;; score=0.446 total time= 0.0s
[CV 1/5] END ...C=4.5, gamma=0.5, kernel=rbf;; score=0.622 total time= 0.0s
[CV 2/5] END ...C=4.5, gamma=0.5, kernel=rbf;; score=0.610 total time= 0.0s
[CV 3/5] END ...C=4.5, gamma=0.5, kernel=rbf;; score=0.682 total time= 0.0s
[CV 4/5] END ...C=4.5, gamma=0.5, kernel=rbf;; score=0.646 total time= 0.0s
[CV 5/5] END ...C=4.5, gamma=0.5, kernel=rbf;; score=0.672 total time= 0.0s
[CV 1/5] END ...C=4.5, gamma=0.5, kernel=poly;; score=0.526 total time= 0.6s
[CV 2/5] END ...C=4.5, gamma=0.5, kernel=poly;; score=0.533 total time= 0.2s
[CV 3/5] END ...C=4.5, gamma=0.5, kernel=poly;; score=0.549 total time= 0.4s
[CV 4/5] END ...C=4.5, gamma=0.5, kernel=poly;; score=0.585 total time= 0.7s
[CV 5/5] END ...C=4.5, gamma=0.5, kernel=poly;; score=0.559 total time= 0.4s
[CV 1/5] END ..C=4.5, gamma=0.5, kernel=sigmoid;; score=0.429 total time= 0.0s

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[CV 2/5] END ..C=4.5, gamma=0.5, kernel=sigmoid;; score=0.462 total time= 0.0s
[CV 3/5] END ..C=4.5, gamma=0.5, kernel=sigmoid;; score=0.472 total time= 0.0s
[CV 4/5] END ..C=4.5, gamma=0.5, kernel=sigmoid;; score=0.436 total time= 0.0s
[CV 5/5] END ..C=4.5, gamma=0.5, kernel=sigmoid;; score=0.441 total time= 0.0s
[CV 1/5] END ...C=4.5, gamma=0.6, kernel=rbf;; score=0.622 total time= 0.0s
[CV 2/5] END ...C=4.5, gamma=0.6, kernel=rbf;; score=0.605 total time= 0.0s
[CV 3/5] END ...C=4.5, gamma=0.6, kernel=rbf;; score=0.703 total time= 0.0s
[CV 4/5] END ...C=4.5, gamma=0.6, kernel=rbf;; score=0.651 total time= 0.0s
[CV 5/5] END ...C=4.5, gamma=0.6, kernel=rbf;; score=0.656 total time= 0.0s
[CV 1/5] END ...C=4.5, gamma=0.6, kernel=poly;; score=0.561 total time= 0.5s
[CV 2/5] END ...C=4.5, gamma=0.6, kernel=poly;; score=0.523 total time= 0.6s
[CV 3/5] END ...C=4.5, gamma=0.6, kernel=poly;; score=0.574 total time= 0.7s
[CV 4/5] END ...C=4.5, gamma=0.6, kernel=poly;; score=0.579 total time= 1.2s
[CV 5/5] END ...C=4.5, gamma=0.6, kernel=poly;; score=0.579 total time= 0.7s
[CV 1/5] END ..C=4.5, gamma=0.6, kernel=sigmoid;; score=0.434 total time= 0.0s
[CV 2/5] END ..C=4.5, gamma=0.6, kernel=sigmoid;; score=0.492 total time= 0.0s
[CV 3/5] END ..C=4.5, gamma=0.6, kernel=sigmoid;; score=0.451 total time= 0.0s
[CV 4/5] END ..C=4.5, gamma=0.6, kernel=sigmoid;; score=0.436 total time= 0.0s
[CV 5/5] END ..C=4.5, gamma=0.6, kernel=sigmoid;; score=0.472 total time= 0.0s
[CV 1/5] END C=4.5, gamma=0.7000000000000001, kernel=rbf;; score=0.612 total
time= 0.0s
[CV 2/5] END C=4.5, gamma=0.7000000000000001, kernel=rbf;; score=0.590 total
time= 0.0s
[CV 3/5] END C=4.5, gamma=0.7000000000000001, kernel=rbf;; score=0.713 total
time= 0.0s
[CV 4/5] END C=4.5, gamma=0.7000000000000001, kernel=rbf;; score=0.651 total
time= 0.0s
[CV 5/5] END C=4.5, gamma=0.7000000000000001, kernel=rbf;; score=0.667 total
time= 0.0s
[CV 1/5] END C=4.5, gamma=0.7000000000000001, kernel=poly;; score=0.561 total
time= 0.5s
[CV 2/5] END C=4.5, gamma=0.7000000000000001, kernel=poly;; score=0.518 total
time= 0.8s
[CV 3/5] END C=4.5, gamma=0.7000000000000001, kernel=poly;; score=0.579 total
time= 1.0s
[CV 4/5] END C=4.5, gamma=0.7000000000000001, kernel=poly;; score=0.569 total
time= 1.2s
[CV 5/5] END C=4.5, gamma=0.7000000000000001, kernel=poly;; score=0.585 total
time= 1.0s
[CV 1/5] END C=4.5, gamma=0.7000000000000001, kernel=sigmoid;; score=0.480 total
time= 0.0s
[CV 2/5] END C=4.5, gamma=0.7000000000000001, kernel=sigmoid;; score=0.503 total
time= 0.0s
[CV 3/5] END C=4.5, gamma=0.7000000000000001, kernel=sigmoid;; score=0.477 total
time= 0.0s
[CV 4/5] END C=4.5, gamma=0.7000000000000001, kernel=sigmoid;; score=0.441 total
time= 0.0s
[CV 5/5] END C=4.5, gamma=0.7000000000000001, kernel=sigmoid;; score=0.400 total

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time= 0.0s
[CV 1/5] END ...C=4.5, gamma=0.8, kernel=rbf;; score=0.597 total time= 0.0s
[CV 2/5] END ...C=4.5, gamma=0.8, kernel=rbf;; score=0.590 total time= 0.0s
[CV 3/5] END ...C=4.5, gamma=0.8, kernel=rbf;; score=0.682 total time= 0.0s
[CV 4/5] END ...C=4.5, gamma=0.8, kernel=rbf;; score=0.662 total time= 0.0s
[CV 5/5] END ...C=4.5, gamma=0.8, kernel=rbf;; score=0.667 total time= 0.0s
[CV 1/5] END ...C=4.5, gamma=0.8, kernel=poly;; score=0.577 total time= 0.8s
[CV 2/5] END ...C=4.5, gamma=0.8, kernel=poly;; score=0.523 total time= 1.0s
[CV 3/5] END ...C=4.5, gamma=0.8, kernel=poly;; score=0.569 total time= 2.2s
[CV 4/5] END ...C=4.5, gamma=0.8, kernel=poly;; score=0.569 total time= 1.4s
[CV 5/5] END ...C=4.5, gamma=0.8, kernel=poly;; score=0.574 total time= 1.1s
[CV 1/5] END ..C=4.5, gamma=0.8, kernel=sigmoid;; score=0.454 total time= 0.0s
[CV 2/5] END ..C=4.5, gamma=0.8, kernel=sigmoid;; score=0.513 total time= 0.0s
[CV 3/5] END ..C=4.5, gamma=0.8, kernel=sigmoid;; score=0.508 total time= 0.0s
[CV 4/5] END ..C=4.5, gamma=0.8, kernel=sigmoid;; score=0.431 total time= 0.0s
[CV 5/5] END ..C=4.5, gamma=0.8, kernel=sigmoid;; score=0.492 total time= 0.0s
[CV 1/5] END ...C=4.5, gamma=0.9, kernel=rbf;; score=0.597 total time= 0.0s
[CV 2/5] END ...C=4.5, gamma=0.9, kernel=rbf;; score=0.590 total time= 0.0s
[CV 3/5] END ...C=4.5, gamma=0.9, kernel=rbf;; score=0.667 total time= 0.0s
[CV 4/5] END ...C=4.5, gamma=0.9, kernel=rbf;; score=0.667 total time= 0.0s
[CV 5/5] END ...C=4.5, gamma=0.9, kernel=rbf;; score=0.667 total time= 0.0s
[CV 1/5] END ...C=4.5, gamma=0.9, kernel=poly;; score=0.561 total time= 1.0s
[CV 2/5] END ...C=4.5, gamma=0.9, kernel=poly;; score=0.528 total time= 1.1s
[CV 3/5] END ...C=4.5, gamma=0.9, kernel=poly;; score=0.564 total time= 2.0s
[CV 4/5] END ...C=4.5, gamma=0.9, kernel=poly;; score=0.574 total time= 2.2s
[CV 5/5] END ...C=4.5, gamma=0.9, kernel=poly;; score=0.585 total time= 1.3s
[CV 1/5] END ..C=4.5, gamma=0.9, kernel=sigmoid;; score=0.423 total time= 0.0s
[CV 2/5] END ..C=4.5, gamma=0.9, kernel=sigmoid;; score=0.508 total time= 0.0s
[CV 3/5] END ..C=4.5, gamma=0.9, kernel=sigmoid;; score=0.462 total time= 0.0s
[CV 4/5] END ..C=4.5, gamma=0.9, kernel=sigmoid;; score=0.462 total time= 0.0s
[CV 5/5] END ..C=4.5, gamma=0.9, kernel=sigmoid;; score=0.492 total time= 0.0s
[CV 1/5] END ...C=4.5, gamma=1.0, kernel=rbf;; score=0.597 total time= 0.0s
[CV 2/5] END ...C=4.5, gamma=1.0, kernel=rbf;; score=0.574 total time= 0.0s
[CV 3/5] END ...C=4.5, gamma=1.0, kernel=rbf;; score=0.677 total time= 0.0s
[CV 4/5] END ...C=4.5, gamma=1.0, kernel=rbf;; score=0.656 total time= 0.0s
[CV 5/5] END ...C=4.5, gamma=1.0, kernel=rbf;; score=0.656 total time= 0.0s
[CV 1/5] END ...C=4.5, gamma=1.0, kernel=poly;; score=0.561 total time= 1.7s
[CV 2/5] END ...C=4.5, gamma=1.0, kernel=poly;; score=0.503 total time= 1.4s
[CV 3/5] END ...C=4.5, gamma=1.0, kernel=poly;; score=0.549 total time= 2.7s
[CV 4/5] END ...C=4.5, gamma=1.0, kernel=poly;; score=0.564 total time= 2.1s
[CV 5/5] END ...C=4.5, gamma=1.0, kernel=poly;; score=0.590 total time= 1.8s
[CV 1/5] END ..C=4.5, gamma=1.0, kernel=sigmoid;; score=0.459 total time= 0.0s
[CV 2/5] END ..C=4.5, gamma=1.0, kernel=sigmoid;; score=0.492 total time= 0.0s
[CV 3/5] END ..C=4.5, gamma=1.0, kernel=sigmoid;; score=0.482 total time= 0.0s
[CV 4/5] END ..C=4.5, gamma=1.0, kernel=sigmoid;; score=0.456 total time= 0.0s
[CV 5/5] END ..C=4.5, gamma=1.0, kernel=sigmoid;; score=0.487 total time= 0.0s
[CV 1/5] END ...C=5.6, gamma=0.1, kernel=rbf;; score=0.612 total time= 0.0s
[CV 2/5] END ...C=5.6, gamma=0.1, kernel=rbf;; score=0.564 total time= 0.0s

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[CV 3/5] END ...C=5.6, gamma=0.1, kernel=rbf;; score=0.626 total time= 0.0s
[CV 4/5] END ...C=5.6, gamma=0.1, kernel=rbf;; score=0.687 total time= 0.0s
[CV 5/5] END ...C=5.6, gamma=0.1, kernel=rbf;; score=0.682 total time= 0.0s
[CV 1/5] END ...C=5.6, gamma=0.1, kernel=poly;; score=0.597 total time= 0.0s
[CV 2/5] END ...C=5.6, gamma=0.1, kernel=poly;; score=0.538 total time= 0.0s
[CV 3/5] END ...C=5.6, gamma=0.1, kernel=poly;; score=0.631 total time= 0.0s
[CV 4/5] END ...C=5.6, gamma=0.1, kernel=poly;; score=0.656 total time= 0.0s
[CV 5/5] END ...C=5.6, gamma=0.1, kernel=poly;; score=0.646 total time= 0.0s
[CV 1/5] END ..C=5.6, gamma=0.1, kernel=sigmoid;; score=0.546 total time= 0.0s
[CV 2/5] END ..C=5.6, gamma=0.1, kernel=sigmoid;; score=0.477 total time= 0.0s
[CV 3/5] END ..C=5.6, gamma=0.1, kernel=sigmoid;; score=0.503 total time= 0.0s
[CV 4/5] END ..C=5.6, gamma=0.1, kernel=sigmoid;; score=0.472 total time= 0.0s
[CV 5/5] END ..C=5.6, gamma=0.1, kernel=sigmoid;; score=0.472 total time= 0.0s
[CV 1/5] END ...C=5.6, gamma=0.2, kernel=rbf;; score=0.628 total time= 0.0s
[CV 2/5] END ...C=5.6, gamma=0.2, kernel=rbf;; score=0.579 total time= 0.0s
[CV 3/5] END ...C=5.6, gamma=0.2, kernel=rbf;; score=0.651 total time= 0.0s
[CV 4/5] END ...C=5.6, gamma=0.2, kernel=rbf;; score=0.651 total time= 0.0s
[CV 5/5] END ...C=5.6, gamma=0.2, kernel=rbf;; score=0.677 total time= 0.0s
[CV 1/5] END ...C=5.6, gamma=0.2, kernel=poly;; score=0.546 total time= 0.0s
[CV 2/5] END ...C=5.6, gamma=0.2, kernel=poly;; score=0.544 total time= 0.0s
[CV 3/5] END ...C=5.6, gamma=0.2, kernel=poly;; score=0.574 total time= 0.0s
[CV 4/5] END ...C=5.6, gamma=0.2, kernel=poly;; score=0.615 total time= 0.0s
[CV 5/5] END ...C=5.6, gamma=0.2, kernel=poly;; score=0.590 total time= 0.0s
[CV 1/5] END ..C=5.6, gamma=0.2, kernel=sigmoid;; score=0.480 total time= 0.0s
[CV 2/5] END ..C=5.6, gamma=0.2, kernel=sigmoid;; score=0.467 total time= 0.0s
[CV 3/5] END ..C=5.6, gamma=0.2, kernel=sigmoid;; score=0.441 total time= 0.0s
[CV 4/5] END ..C=5.6, gamma=0.2, kernel=sigmoid;; score=0.456 total time= 0.0s
[CV 5/5] END ..C=5.6, gamma=0.2, kernel=sigmoid;; score=0.497 total time= 0.0s
[CV 1/5] END C=5.6, gamma=0.30000000000000004, kernel=rbf;; score=0.617 total
time= 0.0s
[CV 2/5] END C=5.6, gamma=0.30000000000000004, kernel=rbf;; score=0.605 total
time= 0.0s
[CV 3/5] END C=5.6, gamma=0.30000000000000004, kernel=rbf;; score=0.677 total
time= 0.0s
[CV 4/5] END C=5.6, gamma=0.30000000000000004, kernel=rbf;; score=0.636 total
time= 0.0s
[CV 5/5] END C=5.6, gamma=0.30000000000000004, kernel=rbf;; score=0.677 total
time= 0.0s
[CV 1/5] END C=5.6, gamma=0.30000000000000004, kernel=poly;; score=0.541 total
time= 0.1s
[CV 2/5] END C=5.6, gamma=0.30000000000000004, kernel=poly;; score=0.523 total
time= 0.0s
[CV 3/5] END C=5.6, gamma=0.30000000000000004, kernel=poly;; score=0.585 total
time= 0.1s
[CV 4/5] END C=5.6, gamma=0.30000000000000004, kernel=poly;; score=0.605 total
time= 0.2s
[CV 5/5] END C=5.6, gamma=0.30000000000000004, kernel=poly;; score=0.595 total
time= 0.1s

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[CV 1/5] END C=5.6, gamma=0.30000000000000004, kernel=sigmoid;; score=0.449
total time= 0.0s
[CV 2/5] END C=5.6, gamma=0.30000000000000004, kernel=sigmoid;; score=0.446
total time= 0.0s
[CV 3/5] END C=5.6, gamma=0.30000000000000004, kernel=sigmoid;; score=0.487
total time= 0.0s
[CV 4/5] END C=5.6, gamma=0.30000000000000004, kernel=sigmoid;; score=0.456
total time= 0.0s
[CV 5/5] END C=5.6, gamma=0.30000000000000004, kernel=sigmoid;; score=0.456
total time= 0.0s
[CV 1/5] END ..C=5.6, gamma=0.4, kernel=rbf;; score=0.592 total time= 0.0s
[CV 2/5] END ..C=5.6, gamma=0.4, kernel=rbf;; score=0.626 total time= 0.0s
[CV 3/5] END ..C=5.6, gamma=0.4, kernel=rbf;; score=0.677 total time= 0.0s
[CV 4/5] END ..C=5.6, gamma=0.4, kernel=rbf;; score=0.621 total time= 0.0s
[CV 5/5] END ..C=5.6, gamma=0.4, kernel=rbf;; score=0.677 total time= 0.0s
[CV 1/5] END ..C=5.6, gamma=0.4, kernel=poly;; score=0.510 total time= 0.2s
[CV 2/5] END ..C=5.6, gamma=0.4, kernel=poly;; score=0.513 total time= 0.2s
[CV 3/5] END ..C=5.6, gamma=0.4, kernel=poly;; score=0.533 total time= 0.2s
[CV 4/5] END ..C=5.6, gamma=0.4, kernel=poly;; score=0.595 total time= 0.5s
[CV 5/5] END ..C=5.6, gamma=0.4, kernel=poly;; score=0.564 total time= 0.2s
[CV 1/5] END ..C=5.6, gamma=0.4, kernel=sigmoid;; score=0.454 total time= 0.0s
[CV 2/5] END ..C=5.6, gamma=0.4, kernel=sigmoid;; score=0.472 total time= 0.0s
[CV 3/5] END ..C=5.6, gamma=0.4, kernel=sigmoid;; score=0.467 total time= 0.0s
[CV 4/5] END ..C=5.6, gamma=0.4, kernel=sigmoid;; score=0.482 total time= 0.0s
[CV 5/5] END ..C=5.6, gamma=0.4, kernel=sigmoid;; score=0.421 total time= 0.0s
[CV 1/5] END ...C=5.6, gamma=0.5, kernel=rbf;; score=0.612 total time= 0.0s
[CV 2/5] END ...C=5.6, gamma=0.5, kernel=rbf;; score=0.610 total time= 0.0s
[CV 3/5] END ...C=5.6, gamma=0.5, kernel=rbf;; score=0.682 total time= 0.0s
[CV 4/5] END ...C=5.6, gamma=0.5, kernel=rbf;; score=0.641 total time= 0.0s
[CV 5/5] END ...C=5.6, gamma=0.5, kernel=rbf;; score=0.672 total time= 0.0s
[CV 1/5] END ...C=5.6, gamma=0.5, kernel=poly;; score=0.531 total time= 0.5s
[CV 2/5] END ...C=5.6, gamma=0.5, kernel=poly;; score=0.523 total time= 0.3s
[CV 3/5] END ...C=5.6, gamma=0.5, kernel=poly;; score=0.554 total time= 0.6s
[CV 4/5] END ...C=5.6, gamma=0.5, kernel=poly;; score=0.595 total time= 0.7s
[CV 5/5] END ...C=5.6, gamma=0.5, kernel=poly;; score=0.559 total time= 0.4s
[CV 1/5] END ..C=5.6, gamma=0.5, kernel=sigmoid;; score=0.429 total time= 0.0s
[CV 2/5] END ..C=5.6, gamma=0.5, kernel=sigmoid;; score=0.462 total time= 0.0s
[CV 3/5] END ..C=5.6, gamma=0.5, kernel=sigmoid;; score=0.518 total time= 0.0s
[CV 4/5] END ..C=5.6, gamma=0.5, kernel=sigmoid;; score=0.451 total time= 0.0s
[CV 5/5] END ..C=5.6, gamma=0.5, kernel=sigmoid;; score=0.436 total time= 0.0s
[CV 1/5] END ...C=5.6, gamma=0.6, kernel=rbf;; score=0.612 total time= 0.0s
[CV 2/5] END ...C=5.6, gamma=0.6, kernel=rbf;; score=0.600 total time= 0.0s
[CV 3/5] END ...C=5.6, gamma=0.6, kernel=rbf;; score=0.703 total time= 0.0s
[CV 4/5] END ...C=5.6, gamma=0.6, kernel=rbf;; score=0.646 total time= 0.0s
[CV 5/5] END ...C=5.6, gamma=0.6, kernel=rbf;; score=0.662 total time= 0.0s
[CV 1/5] END ...C=5.6, gamma=0.6, kernel=poly;; score=0.577 total time= 0.6s
[CV 2/5] END ...C=5.6, gamma=0.6, kernel=poly;; score=0.528 total time= 0.5s
[CV 3/5] END ...C=5.6, gamma=0.6, kernel=poly;; score=0.564 total time= 0.8s

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[CV 4/5] END ...C=5.6, gamma=0.6, kernel=poly;;, score=0.579 total time= 1.3s
[CV 5/5] END ...C=5.6, gamma=0.6, kernel=poly;;, score=0.579 total time= 0.9s
[CV 1/5] END ..C=5.6, gamma=0.6, kernel=sigmoid;;, score=0.429 total time= 0.0s
[CV 2/5] END ..C=5.6, gamma=0.6, kernel=sigmoid;;, score=0.497 total time= 0.0s
[CV 3/5] END ..C=5.6, gamma=0.6, kernel=sigmoid;;, score=0.446 total time= 0.0s
[CV 4/5] END ..C=5.6, gamma=0.6, kernel=sigmoid;;, score=0.446 total time= 0.0s
[CV 5/5] END ..C=5.6, gamma=0.6, kernel=sigmoid;;, score=0.462 total time= 0.0s
[CV 1/5] END C=5.6, gamma=0.7000000000000001, kernel=rbf;;, score=0.597 total
time= 0.0s
[CV 2/5] END C=5.6, gamma=0.7000000000000001, kernel=rbf;;, score=0.590 total
time= 0.0s
[CV 3/5] END C=5.6, gamma=0.7000000000000001, kernel=rbf;;, score=0.708 total
time= 0.0s
[CV 4/5] END C=5.6, gamma=0.7000000000000001, kernel=rbf;;, score=0.651 total
time= 0.0s
[CV 5/5] END C=5.6, gamma=0.7000000000000001, kernel=rbf;;, score=0.672 total
time= 0.0s
[CV 1/5] END C=5.6, gamma=0.7000000000000001, kernel=poly;;, score=0.546 total
time= 0.7s
[CV 2/5] END C=5.6, gamma=0.7000000000000001, kernel=poly;;, score=0.513 total
time= 1.0s
[CV 3/5] END C=5.6, gamma=0.7000000000000001, kernel=poly;;, score=0.569 total
time= 1.5s
[CV 4/5] END C=5.6, gamma=0.7000000000000001, kernel=poly;;, score=0.569 total
time= 1.5s
[CV 5/5] END C=5.6, gamma=0.7000000000000001, kernel=poly;;, score=0.590 total
time= 1.1s
[CV 1/5] END C=5.6, gamma=0.7000000000000001, kernel=sigmoid;;, score=0.434 total
time= 0.0s
[CV 2/5] END C=5.6, gamma=0.7000000000000001, kernel=sigmoid;;, score=0.472 total
time= 0.0s
[CV 3/5] END C=5.6, gamma=0.7000000000000001, kernel=sigmoid;;, score=0.482 total
time= 0.0s
[CV 4/5] END C=5.6, gamma=0.7000000000000001, kernel=sigmoid;;, score=0.462 total
time= 0.0s
[CV 5/5] END C=5.6, gamma=0.7000000000000001, kernel=sigmoid;;, score=0.431 total
time= 0.0s
[CV 1/5] END ...C=5.6, gamma=0.8, kernel=rbf;;, score=0.602 total time= 0.0s
[CV 2/5] END ...C=5.6, gamma=0.8, kernel=rbf;;, score=0.595 total time= 0.0s
[CV 3/5] END ...C=5.6, gamma=0.8, kernel=rbf;;, score=0.687 total time= 0.0s
[CV 4/5] END ...C=5.6, gamma=0.8, kernel=rbf;;, score=0.651 total time= 0.0s
[CV 5/5] END ...C=5.6, gamma=0.8, kernel=rbf;;, score=0.667 total time= 0.0s
[CV 1/5] END ...C=5.6, gamma=0.8, kernel=poly;;, score=0.561 total time= 1.0s
[CV 2/5] END ...C=5.6, gamma=0.8, kernel=poly;;, score=0.528 total time= 1.1s
[CV 3/5] END ...C=5.6, gamma=0.8, kernel=poly;;, score=0.564 total time= 2.3s
[CV 4/5] END ...C=5.6, gamma=0.8, kernel=poly;;, score=0.569 total time= 1.6s
[CV 5/5] END ...C=5.6, gamma=0.8, kernel=poly;;, score=0.574 total time= 1.8s
[CV 1/5] END ..C=5.6, gamma=0.8, kernel=sigmoid;;, score=0.495 total time= 0.0s

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[CV 2/5] END ..C=5.6, gamma=0.8, kernel=sigmoid;; score=0.518 total time= 0.0s
[CV 3/5] END ..C=5.6, gamma=0.8, kernel=sigmoid;; score=0.482 total time= 0.0s
[CV 4/5] END ..C=5.6, gamma=0.8, kernel=sigmoid;; score=0.446 total time= 0.0s
[CV 5/5] END ..C=5.6, gamma=0.8, kernel=sigmoid;; score=0.487 total time= 0.0s
[CV 1/5] END ...C=5.6, gamma=0.9, kernel=rbf;; score=0.597 total time= 0.0s
[CV 2/5] END ...C=5.6, gamma=0.9, kernel=rbf;; score=0.590 total time= 0.0s
[CV 3/5] END ...C=5.6, gamma=0.9, kernel=rbf;; score=0.667 total time= 0.0s
[CV 4/5] END ...C=5.6, gamma=0.9, kernel=rbf;; score=0.662 total time= 0.0s
[CV 5/5] END ...C=5.6, gamma=0.9, kernel=rbf;; score=0.667 total time= 0.0s
[CV 1/5] END ...C=5.6, gamma=0.9, kernel=poly;; score=0.561 total time= 1.6s
[CV 2/5] END ...C=5.6, gamma=0.9, kernel=poly;; score=0.503 total time= 1.2s
[CV 3/5] END ...C=5.6, gamma=0.9, kernel=poly;; score=0.549 total time= 2.3s
[CV 4/5] END ...C=5.6, gamma=0.9, kernel=poly;; score=0.574 total time= 1.8s
[CV 5/5] END ...C=5.6, gamma=0.9, kernel=poly;; score=0.585 total time= 1.8s
[CV 1/5] END ..C=5.6, gamma=0.9, kernel=sigmoid;; score=0.449 total time= 0.0s
[CV 2/5] END ..C=5.6, gamma=0.9, kernel=sigmoid;; score=0.503 total time= 0.0s
[CV 3/5] END ..C=5.6, gamma=0.9, kernel=sigmoid;; score=0.462 total time= 0.0s
[CV 4/5] END ..C=5.6, gamma=0.9, kernel=sigmoid;; score=0.451 total time= 0.0s
[CV 5/5] END ..C=5.6, gamma=0.9, kernel=sigmoid;; score=0.472 total time= 0.0s
[CV 1/5] END ...C=5.6, gamma=1.0, kernel=rbf;; score=0.597 total time= 0.0s
[CV 2/5] END ...C=5.6, gamma=1.0, kernel=rbf;; score=0.569 total time= 0.0s
[CV 3/5] END ...C=5.6, gamma=1.0, kernel=rbf;; score=0.677 total time= 0.0s
[CV 4/5] END ...C=5.6, gamma=1.0, kernel=rbf;; score=0.656 total time= 0.0s
[CV 5/5] END ...C=5.6, gamma=1.0, kernel=rbf;; score=0.656 total time= 0.0s
[CV 1/5] END ...C=5.6, gamma=1.0, kernel=poly;; score=0.566 total time= 2.2s
[CV 2/5] END ...C=5.6, gamma=1.0, kernel=poly;; score=0.497 total time= 1.4s
[CV 3/5] END ...C=5.6, gamma=1.0, kernel=poly;; score=0.549 total time= 4.2s
[CV 4/5] END ...C=5.6, gamma=1.0, kernel=poly;; score=0.559 total time= 2.6s
[CV 5/5] END ...C=5.6, gamma=1.0, kernel=poly;; score=0.585 total time= 2.0s
[CV 1/5] END ..C=5.6, gamma=1.0, kernel=sigmoid;; score=0.459 total time= 0.0s
[CV 2/5] END ..C=5.6, gamma=1.0, kernel=sigmoid;; score=0.497 total time= 0.0s
[CV 3/5] END ..C=5.6, gamma=1.0, kernel=sigmoid;; score=0.492 total time= 0.0s
[CV 4/5] END ..C=5.6, gamma=1.0, kernel=sigmoid;; score=0.446 total time= 0.0s
[CV 5/5] END ..C=5.6, gamma=1.0, kernel=sigmoid;; score=0.513 total time= 0.0s
[CV 1/5] END ...C=6.7, gamma=0.1, kernel=rbf;; score=0.622 total time= 0.0s
[CV 2/5] END ...C=6.7, gamma=0.1, kernel=rbf;; score=0.569 total time= 0.0s
[CV 3/5] END ...C=6.7, gamma=0.1, kernel=rbf;; score=0.605 total time= 0.0s
[CV 4/5] END ...C=6.7, gamma=0.1, kernel=rbf;; score=0.687 total time= 0.0s
[CV 5/5] END ...C=6.7, gamma=0.1, kernel=rbf;; score=0.687 total time= 0.0s
[CV 1/5] END ...C=6.7, gamma=0.1, kernel=poly;; score=0.582 total time= 0.0s
[CV 2/5] END ...C=6.7, gamma=0.1, kernel=poly;; score=0.544 total time= 0.0s
[CV 3/5] END ...C=6.7, gamma=0.1, kernel=poly;; score=0.626 total time= 0.0s
[CV 4/5] END ...C=6.7, gamma=0.1, kernel=poly;; score=0.646 total time= 0.0s
[CV 5/5] END ...C=6.7, gamma=0.1, kernel=poly;; score=0.641 total time= 0.0s
[CV 1/5] END ..C=6.7, gamma=0.1, kernel=sigmoid;; score=0.536 total time= 0.0s
[CV 2/5] END ..C=6.7, gamma=0.1, kernel=sigmoid;; score=0.503 total time= 0.0s
[CV 3/5] END ..C=6.7, gamma=0.1, kernel=sigmoid;; score=0.487 total time= 0.0s
[CV 4/5] END ..C=6.7, gamma=0.1, kernel=sigmoid;; score=0.477 total time= 0.0s

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[CV 5/5] END ..C=6.7, gamma=0.1, kernel=sigmoid;; score=0.497 total time= 0.0s
[CV 1/5] END ...C=6.7, gamma=0.2, kernel=rbf;; score=0.622 total time= 0.0s
[CV 2/5] END ...C=6.7, gamma=0.2, kernel=rbf;; score=0.569 total time= 0.0s
[CV 3/5] END ...C=6.7, gamma=0.2, kernel=rbf;; score=0.636 total time= 0.0s
[CV 4/5] END ...C=6.7, gamma=0.2, kernel=rbf;; score=0.651 total time= 0.0s
[CV 5/5] END ...C=6.7, gamma=0.2, kernel=rbf;; score=0.677 total time= 0.0s
[CV 1/5] END ...C=6.7, gamma=0.2, kernel=poly;; score=0.541 total time= 0.0s
[CV 2/5] END ...C=6.7, gamma=0.2, kernel=poly;; score=0.538 total time= 0.0s
[CV 3/5] END ...C=6.7, gamma=0.2, kernel=poly;; score=0.564 total time= 0.0s
[CV 4/5] END ...C=6.7, gamma=0.2, kernel=poly;; score=0.621 total time= 0.0s
[CV 5/5] END ...C=6.7, gamma=0.2, kernel=poly;; score=0.590 total time= 0.0s
[CV 1/5] END ..C=6.7, gamma=0.2, kernel=sigmoid;; score=0.480 total time= 0.0s
[CV 2/5] END ..C=6.7, gamma=0.2, kernel=sigmoid;; score=0.436 total time= 0.0s
[CV 3/5] END ..C=6.7, gamma=0.2, kernel=sigmoid;; score=0.446 total time= 0.0s
[CV 4/5] END ..C=6.7, gamma=0.2, kernel=sigmoid;; score=0.462 total time= 0.0s
[CV 5/5] END ..C=6.7, gamma=0.2, kernel=sigmoid;; score=0.477 total time= 0.0s
[CV 1/5] END C=6.7, gamma=0.30000000000000004, kernel=rbf;; score=0.602 total
time= 0.0s
[CV 2/5] END C=6.7, gamma=0.30000000000000004, kernel=rbf;; score=0.595 total
time= 0.0s
[CV 3/5] END C=6.7, gamma=0.30000000000000004, kernel=rbf;; score=0.677 total
time= 0.0s
[CV 4/5] END C=6.7, gamma=0.30000000000000004, kernel=rbf;; score=0.636 total
time= 0.0s
[CV 5/5] END C=6.7, gamma=0.30000000000000004, kernel=rbf;; score=0.667 total
time= 0.0s
[CV 1/5] END C=6.7, gamma=0.30000000000000004, kernel=poly;; score=0.541 total
time= 0.2s
[CV 2/5] END C=6.7, gamma=0.30000000000000004, kernel=poly;; score=0.538 total
time= 0.1s
[CV 3/5] END C=6.7, gamma=0.30000000000000004, kernel=poly;; score=0.569 total
time= 0.1s
[CV 4/5] END C=6.7, gamma=0.30000000000000004, kernel=poly;; score=0.615 total
time= 0.2s
[CV 5/5] END C=6.7, gamma=0.30000000000000004, kernel=poly;; score=0.590 total
time= 0.1s
[CV 1/5] END C=6.7, gamma=0.30000000000000004, kernel=sigmoid;; score=0.464
total time= 0.0s
[CV 2/5] END C=6.7, gamma=0.30000000000000004, kernel=sigmoid;; score=0.446
total time= 0.0s
[CV 3/5] END C=6.7, gamma=0.30000000000000004, kernel=sigmoid;; score=0.482
total time= 0.0s
[CV 4/5] END C=6.7, gamma=0.30000000000000004, kernel=sigmoid;; score=0.472
total time= 0.0s
[CV 5/5] END C=6.7, gamma=0.30000000000000004, kernel=sigmoid;; score=0.446
total time= 0.0s
[CV 1/5] END ...C=6.7, gamma=0.4, kernel=rbf;; score=0.597 total time= 0.0s
[CV 2/5] END ...C=6.7, gamma=0.4, kernel=rbf;; score=0.626 total time= 0.0s

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[CV 3/5] END ...C=6.7, gamma=0.4, kernel=rbf;; score=0.682 total time= 0.0s
[CV 4/5] END ...C=6.7, gamma=0.4, kernel=rbf;; score=0.610 total time= 0.0s
[CV 5/5] END ...C=6.7, gamma=0.4, kernel=rbf;; score=0.682 total time= 0.0s
[CV 1/5] END ...C=6.7, gamma=0.4, kernel=poly;; score=0.510 total time= 0.2s
[CV 2/5] END ...C=6.7, gamma=0.4, kernel=poly;; score=0.538 total time= 0.2s
[CV 3/5] END ...C=6.7, gamma=0.4, kernel=poly;; score=0.538 total time= 0.3s
[CV 4/5] END ...C=6.7, gamma=0.4, kernel=poly;; score=0.600 total time= 0.5s
[CV 5/5] END ...C=6.7, gamma=0.4, kernel=poly;; score=0.564 total time= 0.3s
[CV 1/5] END ..C=6.7, gamma=0.4, kernel=sigmoid;; score=0.459 total time= 0.0s
[CV 2/5] END ..C=6.7, gamma=0.4, kernel=sigmoid;; score=0.487 total time= 0.0s
[CV 3/5] END ..C=6.7, gamma=0.4, kernel=sigmoid;; score=0.487 total time= 0.0s
[CV 4/5] END ..C=6.7, gamma=0.4, kernel=sigmoid;; score=0.482 total time= 0.0s
[CV 5/5] END ..C=6.7, gamma=0.4, kernel=sigmoid;; score=0.431 total time= 0.0s
[CV 1/5] END ...C=6.7, gamma=0.5, kernel=rbf;; score=0.607 total time= 0.0s
[CV 2/5] END ...C=6.7, gamma=0.5, kernel=rbf;; score=0.610 total time= 0.0s
[CV 3/5] END ...C=6.7, gamma=0.5, kernel=rbf;; score=0.692 total time= 0.0s
[CV 4/5] END ...C=6.7, gamma=0.5, kernel=rbf;; score=0.631 total time= 0.0s
[CV 5/5] END ...C=6.7, gamma=0.5, kernel=rbf;; score=0.672 total time= 0.0s
[CV 1/5] END ...C=6.7, gamma=0.5, kernel=poly;; score=0.546 total time= 0.5s
[CV 2/5] END ...C=6.7, gamma=0.5, kernel=poly;; score=0.523 total time= 0.5s
[CV 3/5] END ...C=6.7, gamma=0.5, kernel=poly;; score=0.569 total time= 0.5s
[CV 4/5] END ...C=6.7, gamma=0.5, kernel=poly;; score=0.590 total time= 1.0s
[CV 5/5] END ...C=6.7, gamma=0.5, kernel=poly;; score=0.564 total time= 0.6s
[CV 1/5] END ..C=6.7, gamma=0.5, kernel=sigmoid;; score=0.444 total time= 0.0s
[CV 2/5] END ..C=6.7, gamma=0.5, kernel=sigmoid;; score=0.477 total time= 0.0s
[CV 3/5] END ..C=6.7, gamma=0.5, kernel=sigmoid;; score=0.518 total time= 0.0s
[CV 4/5] END ..C=6.7, gamma=0.5, kernel=sigmoid;; score=0.441 total time= 0.0s
[CV 5/5] END ..C=6.7, gamma=0.5, kernel=sigmoid;; score=0.436 total time= 0.0s
[CV 1/5] END ...C=6.7, gamma=0.6, kernel=rbf;; score=0.607 total time= 0.0s
[CV 2/5] END ...C=6.7, gamma=0.6, kernel=rbf;; score=0.600 total time= 0.0s
[CV 3/5] END ...C=6.7, gamma=0.6, kernel=rbf;; score=0.708 total time= 0.0s
[CV 4/5] END ...C=6.7, gamma=0.6, kernel=rbf;; score=0.641 total time= 0.0s
[CV 5/5] END ...C=6.7, gamma=0.6, kernel=rbf;; score=0.662 total time= 0.0s
[CV 1/5] END ...C=6.7, gamma=0.6, kernel=poly;; score=0.566 total time= 0.6s
[CV 2/5] END ...C=6.7, gamma=0.6, kernel=poly;; score=0.518 total time= 0.9s
[CV 3/5] END ...C=6.7, gamma=0.6, kernel=poly;; score=0.569 total time= 1.1s
[CV 4/5] END ...C=6.7, gamma=0.6, kernel=poly;; score=0.579 total time= 1.1s
[CV 5/5] END ...C=6.7, gamma=0.6, kernel=poly;; score=0.579 total time= 1.0s
[CV 1/5] END ..C=6.7, gamma=0.6, kernel=sigmoid;; score=0.464 total time= 0.0s
[CV 2/5] END ..C=6.7, gamma=0.6, kernel=sigmoid;; score=0.467 total time= 0.0s
[CV 3/5] END ..C=6.7, gamma=0.6, kernel=sigmoid;; score=0.451 total time= 0.0s
[CV 4/5] END ..C=6.7, gamma=0.6, kernel=sigmoid;; score=0.431 total time= 0.0s
[CV 5/5] END ..C=6.7, gamma=0.6, kernel=sigmoid;; score=0.487 total time= 0.0s
[CV 1/5] END C=6.7, gamma=0.7000000000000001, kernel=rbf;; score=0.602 total
time= 0.0s
[CV 2/5] END C=6.7, gamma=0.7000000000000001, kernel=rbf;; score=0.590 total
time= 0.0s
[CV 3/5] END C=6.7, gamma=0.7000000000000001, kernel=rbf;; score=0.708 total

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time= 0.0s
[CV 4/5] END C=6.7, gamma=0.7000000000000001, kernel=rbf;; score=0.641 total
time= 0.0s
[CV 5/5] END C=6.7, gamma=0.7000000000000001, kernel=rbf;; score=0.672 total
time= 0.0s
[CV 1/5] END C=6.7, gamma=0.7000000000000001, kernel=poly;; score=0.577 total
time= 0.9s
[CV 2/5] END C=6.7, gamma=0.7000000000000001, kernel=poly;; score=0.523 total
time= 0.7s
[CV 3/5] END C=6.7, gamma=0.7000000000000001, kernel=poly;; score=0.569 total
time= 1.8s
[CV 4/5] END C=6.7, gamma=0.7000000000000001, kernel=poly;; score=0.569 total
time= 1.5s
[CV 5/5] END C=6.7, gamma=0.7000000000000001, kernel=poly;; score=0.574 total
time= 1.0s
[CV 1/5] END C=6.7, gamma=0.7000000000000001, kernel=sigmoid;; score=0.464 total
time= 0.0s
[CV 2/5] END C=6.7, gamma=0.7000000000000001, kernel=sigmoid;; score=0.487 total
time= 0.0s
[CV 3/5] END C=6.7, gamma=0.7000000000000001, kernel=sigmoid;; score=0.482 total
time= 0.0s
[CV 4/5] END C=6.7, gamma=0.7000000000000001, kernel=sigmoid;; score=0.462 total
time= 0.0s
[CV 5/5] END C=6.7, gamma=0.7000000000000001, kernel=sigmoid;; score=0.441 total
time= 0.0s
[CV 1/5] END ...C=6.7, gamma=0.8, kernel=rbf;; score=0.602 total time= 0.0s
[CV 2/5] END ...C=6.7, gamma=0.8, kernel=rbf;; score=0.595 total time= 0.0s
[CV 3/5] END ...C=6.7, gamma=0.8, kernel=rbf;; score=0.687 total time= 0.0s
[CV 4/5] END ...C=6.7, gamma=0.8, kernel=rbf;; score=0.651 total time= 0.0s
[CV 5/5] END ...C=6.7, gamma=0.8, kernel=rbf;; score=0.667 total time= 0.0s
[CV 1/5] END ...C=6.7, gamma=0.8, kernel=poly;; score=0.561 total time= 1.1s
[CV 2/5] END ...C=6.7, gamma=0.8, kernel=poly;; score=0.503 total time= 1.3s
[CV 3/5] END ...C=6.7, gamma=0.8, kernel=poly;; score=0.559 total time= 2.2s
[CV 4/5] END ...C=6.7, gamma=0.8, kernel=poly;; score=0.574 total time= 2.3s
[CV 5/5] END ...C=6.7, gamma=0.8, kernel=poly;; score=0.585 total time= 1.9s
[CV 1/5] END ..C=6.7, gamma=0.8, kernel=sigmoid;; score=0.454 total time= 0.0s
[CV 2/5] END ..C=6.7, gamma=0.8, kernel=sigmoid;; score=0.503 total time= 0.0s
[CV 3/5] END ..C=6.7, gamma=0.8, kernel=sigmoid;; score=0.462 total time= 0.0s
[CV 4/5] END ..C=6.7, gamma=0.8, kernel=sigmoid;; score=0.451 total time= 0.0s
[CV 5/5] END ..C=6.7, gamma=0.8, kernel=sigmoid;; score=0.492 total time= 0.0s
[CV 1/5] END ...C=6.7, gamma=0.9, kernel=rbf;; score=0.597 total time= 0.0s
[CV 2/5] END ...C=6.7, gamma=0.9, kernel=rbf;; score=0.590 total time= 0.0s
[CV 3/5] END ...C=6.7, gamma=0.9, kernel=rbf;; score=0.667 total time= 0.0s
[CV 4/5] END ...C=6.7, gamma=0.9, kernel=rbf;; score=0.667 total time= 0.0s
[CV 5/5] END ...C=6.7, gamma=0.9, kernel=rbf;; score=0.667 total time= 0.0s
[CV 1/5] END ...C=6.7, gamma=0.9, kernel=poly;; score=0.556 total time= 1.6s
[CV 2/5] END ...C=6.7, gamma=0.9, kernel=poly;; score=0.503 total time= 1.0s
[CV 3/5] END ...C=6.7, gamma=0.9, kernel=poly;; score=0.544 total time= 2.7s

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[CV 4/5] END ...C=6.7, gamma=0.9, kernel=poly;; score=0.559 total time= 2.2s
[CV 5/5] END ...C=6.7, gamma=0.9, kernel=poly;; score=0.585 total time= 3.3s
[CV 1/5] END ..C=6.7, gamma=0.9, kernel=sigmoid;; score=0.444 total time= 0.0s
[CV 2/5] END ..C=6.7, gamma=0.9, kernel=sigmoid;; score=0.503 total time= 0.0s
[CV 3/5] END ..C=6.7, gamma=0.9, kernel=sigmoid;; score=0.451 total time= 0.0s
[CV 4/5] END ..C=6.7, gamma=0.9, kernel=sigmoid;; score=0.462 total time= 0.0s
[CV 5/5] END ..C=6.7, gamma=0.9, kernel=sigmoid;; score=0.467 total time= 0.0s
[CV 1/5] END ...C=6.7, gamma=1.0, kernel=rbf;; score=0.602 total time= 0.0s
[CV 2/5] END ...C=6.7, gamma=1.0, kernel=rbf;; score=0.569 total time= 0.0s
[CV 3/5] END ...C=6.7, gamma=1.0, kernel=rbf;; score=0.677 total time= 0.0s
[CV 4/5] END ...C=6.7, gamma=1.0, kernel=rbf;; score=0.662 total time= 0.0s
[CV 5/5] END ...C=6.7, gamma=1.0, kernel=rbf;; score=0.656 total time= 0.0s
[CV 1/5] END ...C=6.7, gamma=1.0, kernel=poly;; score=0.561 total time= 2.4s
[CV 2/5] END ...C=6.7, gamma=1.0, kernel=poly;; score=0.503 total time= 1.8s
[CV 3/5] END ...C=6.7, gamma=1.0, kernel=poly;; score=0.538 total time= 3.0s
[CV 4/5] END ...C=6.7, gamma=1.0, kernel=poly;; score=0.554 total time= 4.3s
[CV 5/5] END ...C=6.7, gamma=1.0, kernel=poly;; score=0.569 total time= 2.2s
[CV 1/5] END ..C=6.7, gamma=1.0, kernel=sigmoid;; score=0.469 total time= 0.0s
[CV 2/5] END ..C=6.7, gamma=1.0, kernel=sigmoid;; score=0.508 total time= 0.0s
[CV 3/5] END ..C=6.7, gamma=1.0, kernel=sigmoid;; score=0.492 total time= 0.0s
[CV 4/5] END ..C=6.7, gamma=1.0, kernel=sigmoid;; score=0.436 total time= 0.0s
[CV 5/5] END ..C=6.7, gamma=1.0, kernel=sigmoid;; score=0.518 total time= 0.0s
[CV 1/5] END C=7.8000000000000001, gamma=0.1, kernel=rbf;; score=0.638 total
time= 0.0s
[CV 2/5] END C=7.8000000000000001, gamma=0.1, kernel=rbf;; score=0.569 total
time= 0.0s
[CV 3/5] END C=7.8000000000000001, gamma=0.1, kernel=rbf;; score=0.605 total
time= 0.0s
[CV 4/5] END C=7.8000000000000001, gamma=0.1, kernel=rbf;; score=0.687 total
time= 0.0s
[CV 5/5] END C=7.8000000000000001, gamma=0.1, kernel=rbf;; score=0.677 total
time= 0.0s
[CV 1/5] END C=7.8000000000000001, gamma=0.1, kernel=poly;; score=0.571 total
time= 0.0s
[CV 2/5] END C=7.8000000000000001, gamma=0.1, kernel=poly;; score=0.544 total
time= 0.0s
[CV 3/5] END C=7.8000000000000001, gamma=0.1, kernel=poly;; score=0.605 total
time= 0.0s
[CV 4/5] END C=7.8000000000000001, gamma=0.1, kernel=poly;; score=0.641 total
time= 0.0s
[CV 5/5] END C=7.8000000000000001, gamma=0.1, kernel=poly;; score=0.641 total
time= 0.0s
[CV 1/5] END C=7.8000000000000001, gamma=0.1, kernel=sigmoid;; score=0.556 total
time= 0.0s
[CV 2/5] END C=7.8000000000000001, gamma=0.1, kernel=sigmoid;; score=0.472 total
time= 0.0s
[CV 3/5] END C=7.8000000000000001, gamma=0.1, kernel=sigmoid;; score=0.497 total
time= 0.0s

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[CV 4/5] END C=7.8000000000000001, gamma=0.1, kernel=sigmoid;, score=0.472 total
 time= 0.0s
 [CV 5/5] END C=7.8000000000000001, gamma=0.1, kernel=sigmoid;, score=0.462 total
 time= 0.0s
 [CV 1/5] END C=7.8000000000000001, gamma=0.2, kernel=rbf;, score=0.622 total
 time= 0.0s
 [CV 2/5] END C=7.8000000000000001, gamma=0.2, kernel=rbf;, score=0.579 total
 time= 0.0s
 [CV 3/5] END C=7.8000000000000001, gamma=0.2, kernel=rbf;, score=0.631 total
 time= 0.0s
 [CV 4/5] END C=7.8000000000000001, gamma=0.2, kernel=rbf;, score=0.641 total
 time= 0.0s
 [CV 5/5] END C=7.8000000000000001, gamma=0.2, kernel=rbf;, score=0.667 total
 time= 0.0s
 [CV 1/5] END C=7.8000000000000001, gamma=0.2, kernel=poly;, score=0.546 total
 time= 0.0s
 [CV 2/5] END C=7.8000000000000001, gamma=0.2, kernel=poly;, score=0.538 total
 time= 0.0s
 [CV 3/5] END C=7.8000000000000001, gamma=0.2, kernel=poly;, score=0.579 total
 time= 0.0s
 [CV 4/5] END C=7.8000000000000001, gamma=0.2, kernel=poly;, score=0.631 total
 time= 0.0s
 [CV 5/5] END C=7.8000000000000001, gamma=0.2, kernel=poly;, score=0.574 total
 time= 0.0s
 [CV 1/5] END C=7.8000000000000001, gamma=0.2, kernel=sigmoid;, score=0.485 total
 time= 0.0s
 [CV 2/5] END C=7.8000000000000001, gamma=0.2, kernel=sigmoid;, score=0.436 total
 time= 0.0s
 [CV 3/5] END C=7.8000000000000001, gamma=0.2, kernel=sigmoid;, score=0.441 total
 time= 0.0s
 [CV 4/5] END C=7.8000000000000001, gamma=0.2, kernel=sigmoid;, score=0.456 total
 time= 0.0s
 [CV 5/5] END C=7.8000000000000001, gamma=0.2, kernel=sigmoid;, score=0.477 total
 time= 0.0s
 [CV 1/5] END C=7.8000000000000001, gamma=0.30000000000000004, kernel=rbf;,
 score=0.592 total time= 0.0s
 [CV 2/5] END C=7.8000000000000001, gamma=0.30000000000000004, kernel=rbf;,
 score=0.600 total time= 0.0s
 [CV 3/5] END C=7.8000000000000001, gamma=0.30000000000000004, kernel=rbf;,
 score=0.677 total time= 0.0s
 [CV 4/5] END C=7.8000000000000001, gamma=0.30000000000000004, kernel=rbf;,
 score=0.621 total time= 0.0s
 [CV 5/5] END C=7.8000000000000001, gamma=0.30000000000000004, kernel=rbf;,
 score=0.662 total time= 0.0s
 [CV 1/5] END C=7.8000000000000001, gamma=0.30000000000000004, kernel=poly;,
 score=0.536 total time= 0.2s
 [CV 2/5] END C=7.8000000000000001, gamma=0.30000000000000004, kernel=poly;,
 score=0.538 total time= 0.1s

[CV 3/5] END C=7.8000000000000001, gamma=0.30000000000000004, kernel=poly;;
 score=0.574 total time= 0.2s
 [CV 4/5] END C=7.8000000000000001, gamma=0.30000000000000004, kernel=poly;;
 score=0.615 total time= 0.2s
 [CV 5/5] END C=7.8000000000000001, gamma=0.30000000000000004, kernel=poly;;
 score=0.579 total time= 0.1s
 [CV 1/5] END C=7.8000000000000001, gamma=0.30000000000000004, kernel=sigmoid;;
 score=0.469 total time= 0.0s
 [CV 2/5] END C=7.8000000000000001, gamma=0.30000000000000004, kernel=sigmoid;;
 score=0.482 total time= 0.0s
 [CV 3/5] END C=7.8000000000000001, gamma=0.30000000000000004, kernel=sigmoid;;
 score=0.482 total time= 0.0s
 [CV 4/5] END C=7.8000000000000001, gamma=0.30000000000000004, kernel=sigmoid;;
 score=0.462 total time= 0.0s
 [CV 5/5] END C=7.8000000000000001, gamma=0.30000000000000004, kernel=sigmoid;;
 score=0.462 total time= 0.0s
 [CV 1/5] END C=7.8000000000000001, gamma=0.4, kernel=rbf;; score=0.592 total
 time= 0.0s
 [CV 2/5] END C=7.8000000000000001, gamma=0.4, kernel=rbf;; score=0.621 total
 time= 0.0s
 [CV 3/5] END C=7.8000000000000001, gamma=0.4, kernel=rbf;; score=0.687 total
 time= 0.0s
 [CV 4/5] END C=7.8000000000000001, gamma=0.4, kernel=rbf;; score=0.605 total
 time= 0.0s
 [CV 5/5] END C=7.8000000000000001, gamma=0.4, kernel=rbf;; score=0.682 total
 time= 0.0s
 [CV 1/5] END C=7.8000000000000001, gamma=0.4, kernel=poly;; score=0.520 total
 time= 0.4s
 [CV 2/5] END C=7.8000000000000001, gamma=0.4, kernel=poly;; score=0.538 total
 time= 0.2s
 [CV 3/5] END C=7.8000000000000001, gamma=0.4, kernel=poly;; score=0.533 total
 time= 0.3s
 [CV 4/5] END C=7.8000000000000001, gamma=0.4, kernel=poly;; score=0.600 total
 time= 0.6s
 [CV 5/5] END C=7.8000000000000001, gamma=0.4, kernel=poly;; score=0.574 total
 time= 0.3s
 [CV 1/5] END C=7.8000000000000001, gamma=0.4, kernel=sigmoid;; score=0.449 total
 time= 0.0s
 [CV 2/5] END C=7.8000000000000001, gamma=0.4, kernel=sigmoid;; score=0.472 total
 time= 0.0s
 [CV 3/5] END C=7.8000000000000001, gamma=0.4, kernel=sigmoid;; score=0.451 total
 time= 0.0s
 [CV 4/5] END C=7.8000000000000001, gamma=0.4, kernel=sigmoid;; score=0.462 total
 time= 0.0s
 [CV 5/5] END C=7.8000000000000001, gamma=0.4, kernel=sigmoid;; score=0.431 total
 time= 0.0s
 [CV 1/5] END C=7.8000000000000001, gamma=0.5, kernel=rbf;; score=0.602 total
 time= 0.0s

[CV 2/5] END C=7.8000000000000001, gamma=0.5, kernel=rbf;; score=0.605 total
 time= 0.0s
 [CV 3/5] END C=7.8000000000000001, gamma=0.5, kernel=rbf;; score=0.692 total
 time= 0.0s
 [CV 4/5] END C=7.8000000000000001, gamma=0.5, kernel=rbf;; score=0.631 total
 time= 0.0s
 [CV 5/5] END C=7.8000000000000001, gamma=0.5, kernel=rbf;; score=0.667 total
 time= 0.0s
 [CV 1/5] END C=7.8000000000000001, gamma=0.5, kernel=poly;; score=0.561 total
 time= 0.5s
 [CV 2/5] END C=7.8000000000000001, gamma=0.5, kernel=poly;; score=0.523 total
 time= 0.6s
 [CV 3/5] END C=7.8000000000000001, gamma=0.5, kernel=poly;; score=0.574 total
 time= 0.5s
 [CV 4/5] END C=7.8000000000000001, gamma=0.5, kernel=poly;; score=0.579 total
 time= 1.2s
 [CV 5/5] END C=7.8000000000000001, gamma=0.5, kernel=poly;; score=0.579 total
 time= 0.7s
 [CV 1/5] END C=7.8000000000000001, gamma=0.5, kernel=sigmoid;; score=0.429 total
 time= 0.0s
 [CV 2/5] END C=7.8000000000000001, gamma=0.5, kernel=sigmoid;; score=0.472 total
 time= 0.0s
 [CV 3/5] END C=7.8000000000000001, gamma=0.5, kernel=sigmoid;; score=0.523 total
 time= 0.0s
 [CV 4/5] END C=7.8000000000000001, gamma=0.5, kernel=sigmoid;; score=0.431 total
 time= 0.0s
 [CV 5/5] END C=7.8000000000000001, gamma=0.5, kernel=sigmoid;; score=0.421 total
 time= 0.0s
 [CV 1/5] END C=7.8000000000000001, gamma=0.6, kernel=rbf;; score=0.607 total
 time= 0.0s
 [CV 2/5] END C=7.8000000000000001, gamma=0.6, kernel=rbf;; score=0.600 total
 time= 0.0s
 [CV 3/5] END C=7.8000000000000001, gamma=0.6, kernel=rbf;; score=0.708 total
 time= 0.0s
 [CV 4/5] END C=7.8000000000000001, gamma=0.6, kernel=rbf;; score=0.646 total
 time= 0.0s
 [CV 5/5] END C=7.8000000000000001, gamma=0.6, kernel=rbf;; score=0.667 total
 time= 0.0s
 [CV 1/5] END C=7.8000000000000001, gamma=0.6, kernel=poly;; score=0.551 total
 time= 0.8s
 [CV 2/5] END C=7.8000000000000001, gamma=0.6, kernel=poly;; score=0.518 total
 time= 0.7s
 [CV 3/5] END C=7.8000000000000001, gamma=0.6, kernel=poly;; score=0.574 total
 time= 1.6s
 [CV 4/5] END C=7.8000000000000001, gamma=0.6, kernel=poly;; score=0.579 total
 time= 1.4s
 [CV 5/5] END C=7.8000000000000001, gamma=0.6, kernel=poly;; score=0.574 total
 time= 0.9s

[CV 1/5] END C=7.8000000000000001, gamma=0.6, kernel=sigmoid;; score=0.459 total time= 0.0s
 [CV 2/5] END C=7.8000000000000001, gamma=0.6, kernel=sigmoid;; score=0.497 total time= 0.0s
 [CV 3/5] END C=7.8000000000000001, gamma=0.6, kernel=sigmoid;; score=0.497 total time= 0.0s
 [CV 4/5] END C=7.8000000000000001, gamma=0.6, kernel=sigmoid;; score=0.441 total time= 0.0s
 [CV 5/5] END C=7.8000000000000001, gamma=0.6, kernel=sigmoid;; score=0.508 total time= 0.0s
 [CV 1/5] END C=7.8000000000000001, gamma=0.7000000000000001, kernel=rbf;; score=0.602 total time= 0.0s
 [CV 2/5] END C=7.8000000000000001, gamma=0.7000000000000001, kernel=rbf;; score=0.590 total time= 0.0s
 [CV 3/5] END C=7.8000000000000001, gamma=0.7000000000000001, kernel=rbf;; score=0.708 total time= 0.0s
 [CV 4/5] END C=7.8000000000000001, gamma=0.7000000000000001, kernel=rbf;; score=0.641 total time= 0.0s
 [CV 5/5] END C=7.8000000000000001, gamma=0.7000000000000001, kernel=rbf;; score=0.672 total time= 0.0s
 [CV 1/5] END C=7.8000000000000001, gamma=0.7000000000000001, kernel=poly;; score=0.566 total time= 1.0s
 [CV 2/5] END C=7.8000000000000001, gamma=0.7000000000000001, kernel=poly;; score=0.533 total time= 0.7s
 [CV 3/5] END C=7.8000000000000001, gamma=0.7000000000000001, kernel=poly;; score=0.569 total time= 2.1s
 [CV 4/5] END C=7.8000000000000001, gamma=0.7000000000000001, kernel=poly;; score=0.569 total time= 1.5s
 [CV 5/5] END C=7.8000000000000001, gamma=0.7000000000000001, kernel=poly;; score=0.569 total time= 1.4s
 [CV 1/5] END C=7.8000000000000001, gamma=0.7000000000000001, kernel=sigmoid;; score=0.500 total time= 0.0s
 [CV 2/5] END C=7.8000000000000001, gamma=0.7000000000000001, kernel=sigmoid;; score=0.492 total time= 0.0s
 [CV 3/5] END C=7.8000000000000001, gamma=0.7000000000000001, kernel=sigmoid;; score=0.477 total time= 0.0s
 [CV 4/5] END C=7.8000000000000001, gamma=0.7000000000000001, kernel=sigmoid;; score=0.451 total time= 0.0s
 [CV 5/5] END C=7.8000000000000001, gamma=0.7000000000000001, kernel=sigmoid;; score=0.451 total time= 0.0s
 [CV 1/5] END C=7.8000000000000001, gamma=0.8, kernel=rbf;; score=0.602 total time= 0.0s
 [CV 2/5] END C=7.8000000000000001, gamma=0.8, kernel=rbf;; score=0.595 total time= 0.0s
 [CV 3/5] END C=7.8000000000000001, gamma=0.8, kernel=rbf;; score=0.682 total time= 0.0s
 [CV 4/5] END C=7.8000000000000001, gamma=0.8, kernel=rbf;; score=0.662 total time= 0.0s

[CV 5/5] END C=7.8000000000000001, gamma=0.8, kernel=rbf;; score=0.667 total
 time= 0.0s
 [CV 1/5] END C=7.8000000000000001, gamma=0.8, kernel=poly;; score=0.561 total
 time= 1.3s
 [CV 2/5] END C=7.8000000000000001, gamma=0.8, kernel=poly;; score=0.503 total
 time= 1.2s
 [CV 3/5] END C=7.8000000000000001, gamma=0.8, kernel=poly;; score=0.549 total
 time= 3.3s
 [CV 4/5] END C=7.8000000000000001, gamma=0.8, kernel=poly;; score=0.574 total
 time= 2.0s
 [CV 5/5] END C=7.8000000000000001, gamma=0.8, kernel=poly;; score=0.585 total
 time= 2.3s
 [CV 1/5] END C=7.8000000000000001, gamma=0.8, kernel=sigmoid;; score=0.480 total
 time= 0.0s
 [CV 2/5] END C=7.8000000000000001, gamma=0.8, kernel=sigmoid;; score=0.508 total
 time= 0.0s
 [CV 3/5] END C=7.8000000000000001, gamma=0.8, kernel=sigmoid;; score=0.487 total
 time= 0.0s
 [CV 4/5] END C=7.8000000000000001, gamma=0.8, kernel=sigmoid;; score=0.451 total
 time= 0.0s
 [CV 5/5] END C=7.8000000000000001, gamma=0.8, kernel=sigmoid;; score=0.492 total
 time= 0.0s
 [CV 1/5] END C=7.8000000000000001, gamma=0.9, kernel=rbf;; score=0.597 total
 time= 0.0s
 [CV 2/5] END C=7.8000000000000001, gamma=0.9, kernel=rbf;; score=0.590 total
 time= 0.0s
 [CV 3/5] END C=7.8000000000000001, gamma=0.9, kernel=rbf;; score=0.667 total
 time= 0.0s
 [CV 4/5] END C=7.8000000000000001, gamma=0.9, kernel=rbf;; score=0.667 total
 time= 0.0s
 [CV 5/5] END C=7.8000000000000001, gamma=0.9, kernel=rbf;; score=0.667 total
 time= 0.0s
 [CV 1/5] END C=7.8000000000000001, gamma=0.9, kernel=poly;; score=0.566 total
 time= 2.3s
 [CV 2/5] END C=7.8000000000000001, gamma=0.9, kernel=poly;; score=0.497 total
 time= 1.3s
 [CV 3/5] END C=7.8000000000000001, gamma=0.9, kernel=poly;; score=0.544 total
 time= 2.8s
 [CV 4/5] END C=7.8000000000000001, gamma=0.9, kernel=poly;; score=0.559 total
 time= 2.7s
 [CV 5/5] END C=7.8000000000000001, gamma=0.9, kernel=poly;; score=0.585 total
 time= 2.1s
 [CV 1/5] END C=7.8000000000000001, gamma=0.9, kernel=sigmoid;; score=0.485 total
 time= 0.0s
 [CV 2/5] END C=7.8000000000000001, gamma=0.9, kernel=sigmoid;; score=0.503 total
 time= 0.0s
 [CV 3/5] END C=7.8000000000000001, gamma=0.9, kernel=sigmoid;; score=0.462 total
 time= 0.0s

[CV 4/5] END C=7.8000000000000001, gamma=0.9, kernel=sigmoid;; score=0.446 total
 time= 0.0s
 [CV 5/5] END C=7.8000000000000001, gamma=0.9, kernel=sigmoid;; score=0.467 total
 time= 0.0s
 [CV 1/5] END C=7.8000000000000001, gamma=1.0, kernel=rbf;; score=0.602 total
 time= 0.0s
 [CV 2/5] END C=7.8000000000000001, gamma=1.0, kernel=rbf;; score=0.569 total
 time= 0.0s
 [CV 3/5] END C=7.8000000000000001, gamma=1.0, kernel=rbf;; score=0.677 total
 time= 0.0s
 [CV 4/5] END C=7.8000000000000001, gamma=1.0, kernel=rbf;; score=0.656 total
 time= 0.0s
 [CV 5/5] END C=7.8000000000000001, gamma=1.0, kernel=rbf;; score=0.656 total
 time= 0.0s
 [CV 1/5] END C=7.8000000000000001, gamma=1.0, kernel=poly;; score=0.566 total
 time= 2.5s
 [CV 2/5] END C=7.8000000000000001, gamma=1.0, kernel=poly;; score=0.503 total
 time= 1.4s
 [CV 3/5] END C=7.8000000000000001, gamma=1.0, kernel=poly;; score=0.538 total
 time= 4.0s
 [CV 4/5] END C=7.8000000000000001, gamma=1.0, kernel=poly;; score=0.554 total
 time= 3.5s
 [CV 5/5] END C=7.8000000000000001, gamma=1.0, kernel=poly;; score=0.569 total
 time= 3.0s
 [CV 1/5] END C=7.8000000000000001, gamma=1.0, kernel=sigmoid;; score=0.459 total
 time= 0.0s
 [CV 2/5] END C=7.8000000000000001, gamma=1.0, kernel=sigmoid;; score=0.503 total
 time= 0.0s
 [CV 3/5] END C=7.8000000000000001, gamma=1.0, kernel=sigmoid;; score=0.503 total
 time= 0.0s
 [CV 4/5] END C=7.8000000000000001, gamma=1.0, kernel=sigmoid;; score=0.446 total
 time= 0.0s
 [CV 5/5] END C=7.8000000000000001, gamma=1.0, kernel=sigmoid;; score=0.513 total
 time= 0.0s
 [CV 1/5] END ...C=8.9, gamma=0.1, kernel=rbf;; score=0.638 total time= 0.0s
 [CV 2/5] END ...C=8.9, gamma=0.1, kernel=rbf;; score=0.579 total time= 0.0s
 [CV 3/5] END ...C=8.9, gamma=0.1, kernel=rbf;; score=0.610 total time= 0.0s
 [CV 4/5] END ...C=8.9, gamma=0.1, kernel=rbf;; score=0.682 total time= 0.0s
 [CV 5/5] END ...C=8.9, gamma=0.1, kernel=rbf;; score=0.677 total time= 0.0s
 [CV 1/5] END ...C=8.9, gamma=0.1, kernel=poly;; score=0.566 total time= 0.0s
 [CV 2/5] END ...C=8.9, gamma=0.1, kernel=poly;; score=0.559 total time= 0.0s
 [CV 3/5] END ...C=8.9, gamma=0.1, kernel=poly;; score=0.595 total time= 0.0s
 [CV 4/5] END ...C=8.9, gamma=0.1, kernel=poly;; score=0.626 total time= 0.0s
 [CV 5/5] END ...C=8.9, gamma=0.1, kernel=poly;; score=0.631 total time= 0.0s
 [CV 1/5] END ..C=8.9, gamma=0.1, kernel=sigmoid;; score=0.536 total time= 0.0s
 [CV 2/5] END ..C=8.9, gamma=0.1, kernel=sigmoid;; score=0.477 total time= 0.0s
 [CV 3/5] END ..C=8.9, gamma=0.1, kernel=sigmoid;; score=0.492 total time= 0.0s
 [CV 4/5] END ..C=8.9, gamma=0.1, kernel=sigmoid;; score=0.482 total time= 0.0s

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[CV 5/5] END ..C=8.9, gamma=0.1, kernel=sigmoid;; score=0.472 total time= 0.0s
[CV 1/5] END ...C=8.9, gamma=0.2, kernel=rbf;; score=0.607 total time= 0.0s
[CV 2/5] END ...C=8.9, gamma=0.2, kernel=rbf;; score=0.574 total time= 0.0s
[CV 3/5] END ...C=8.9, gamma=0.2, kernel=rbf;; score=0.636 total time= 0.0s
[CV 4/5] END ...C=8.9, gamma=0.2, kernel=rbf;; score=0.626 total time= 0.0s
[CV 5/5] END ...C=8.9, gamma=0.2, kernel=rbf;; score=0.667 total time= 0.0s
[CV 1/5] END ...C=8.9, gamma=0.2, kernel=poly;; score=0.541 total time= 0.0s
[CV 2/5] END ...C=8.9, gamma=0.2, kernel=poly;; score=0.533 total time= 0.0s
[CV 3/5] END ...C=8.9, gamma=0.2, kernel=poly;; score=0.595 total time= 0.0s
[CV 4/5] END ...C=8.9, gamma=0.2, kernel=poly;; score=0.626 total time= 0.0s
[CV 5/5] END ...C=8.9, gamma=0.2, kernel=poly;; score=0.574 total time= 0.0s
[CV 1/5] END ..C=8.9, gamma=0.2, kernel=sigmoid;; score=0.490 total time= 0.0s
[CV 2/5] END ..C=8.9, gamma=0.2, kernel=sigmoid;; score=0.451 total time= 0.0s
[CV 3/5] END ..C=8.9, gamma=0.2, kernel=sigmoid;; score=0.456 total time= 0.0s
[CV 4/5] END ..C=8.9, gamma=0.2, kernel=sigmoid;; score=0.462 total time= 0.0s
[CV 5/5] END ..C=8.9, gamma=0.2, kernel=sigmoid;; score=0.477 total time= 0.0s
[CV 1/5] END C=8.9, gamma=0.30000000000000004, kernel=rbf;; score=0.597 total
time= 0.0s
[CV 2/5] END C=8.9, gamma=0.30000000000000004, kernel=rbf;; score=0.590 total
time= 0.0s
[CV 3/5] END C=8.9, gamma=0.30000000000000004, kernel=rbf;; score=0.687 total
time= 0.0s
[CV 4/5] END C=8.9, gamma=0.30000000000000004, kernel=rbf;; score=0.621 total
time= 0.0s
[CV 5/5] END C=8.9, gamma=0.30000000000000004, kernel=rbf;; score=0.667 total
time= 0.0s
[CV 1/5] END C=8.9, gamma=0.30000000000000004, kernel=poly;; score=0.526 total
time= 0.1s
[CV 2/5] END C=8.9, gamma=0.30000000000000004, kernel=poly;; score=0.544 total
time= 0.1s
[CV 3/5] END C=8.9, gamma=0.30000000000000004, kernel=poly;; score=0.574 total
time= 0.1s
[CV 4/5] END C=8.9, gamma=0.30000000000000004, kernel=poly;; score=0.610 total
time= 0.2s
[CV 5/5] END C=8.9, gamma=0.30000000000000004, kernel=poly;; score=0.574 total
time= 0.1s
[CV 1/5] END C=8.9, gamma=0.30000000000000004, kernel=sigmoid;; score=0.464
total time= 0.0s
[CV 2/5] END C=8.9, gamma=0.30000000000000004, kernel=sigmoid;; score=0.446
total time= 0.0s
[CV 3/5] END C=8.9, gamma=0.30000000000000004, kernel=sigmoid;; score=0.472
total time= 0.0s
[CV 4/5] END C=8.9, gamma=0.30000000000000004, kernel=sigmoid;; score=0.446
total time= 0.0s
[CV 5/5] END C=8.9, gamma=0.30000000000000004, kernel=sigmoid;; score=0.456
total time= 0.0s
[CV 1/5] END ...C=8.9, gamma=0.4, kernel=rbf;; score=0.592 total time= 0.0s
[CV 2/5] END ...C=8.9, gamma=0.4, kernel=rbf;; score=0.621 total time= 0.0s

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[CV 3/5] END ...C=8.9, gamma=0.4, kernel=rbf;; score=0.687 total time= 0.0s
[CV 4/5] END ...C=8.9, gamma=0.4, kernel=rbf;; score=0.600 total time= 0.0s
[CV 5/5] END ...C=8.9, gamma=0.4, kernel=rbf;; score=0.672 total time= 0.0s
[CV 1/5] END ...C=8.9, gamma=0.4, kernel=poly;; score=0.531 total time= 0.6s
[CV 2/5] END ...C=8.9, gamma=0.4, kernel=poly;; score=0.533 total time= 0.2s
[CV 3/5] END ...C=8.9, gamma=0.4, kernel=poly;; score=0.549 total time= 0.3s
[CV 4/5] END ...C=8.9, gamma=0.4, kernel=poly;; score=0.585 total time= 0.6s
[CV 5/5] END ...C=8.9, gamma=0.4, kernel=poly;; score=0.559 total time= 0.3s
[CV 1/5] END ..C=8.9, gamma=0.4, kernel=sigmoid;; score=0.464 total time= 0.0s
[CV 2/5] END ..C=8.9, gamma=0.4, kernel=sigmoid;; score=0.472 total time= 0.0s
[CV 3/5] END ..C=8.9, gamma=0.4, kernel=sigmoid;; score=0.456 total time= 0.0s
[CV 4/5] END ..C=8.9, gamma=0.4, kernel=sigmoid;; score=0.456 total time= 0.0s
[CV 5/5] END ..C=8.9, gamma=0.4, kernel=sigmoid;; score=0.431 total time= 0.0s
[CV 1/5] END ...C=8.9, gamma=0.5, kernel=rbf;; score=0.602 total time= 0.0s
[CV 2/5] END ...C=8.9, gamma=0.5, kernel=rbf;; score=0.605 total time= 0.0s
[CV 3/5] END ...C=8.9, gamma=0.5, kernel=rbf;; score=0.697 total time= 0.0s
[CV 4/5] END ...C=8.9, gamma=0.5, kernel=rbf;; score=0.631 total time= 0.0s
[CV 5/5] END ...C=8.9, gamma=0.5, kernel=rbf;; score=0.662 total time= 0.0s
[CV 1/5] END ...C=8.9, gamma=0.5, kernel=poly;; score=0.571 total time= 0.4s
[CV 2/5] END ...C=8.9, gamma=0.5, kernel=poly;; score=0.523 total time= 0.7s
[CV 3/5] END ...C=8.9, gamma=0.5, kernel=poly;; score=0.564 total time= 0.7s
[CV 4/5] END ...C=8.9, gamma=0.5, kernel=poly;; score=0.585 total time= 0.9s
[CV 5/5] END ...C=8.9, gamma=0.5, kernel=poly;; score=0.579 total time= 0.9s
[CV 1/5] END ..C=8.9, gamma=0.5, kernel=sigmoid;; score=0.423 total time= 0.0s
[CV 2/5] END ..C=8.9, gamma=0.5, kernel=sigmoid;; score=0.472 total time= 0.0s
[CV 3/5] END ..C=8.9, gamma=0.5, kernel=sigmoid;; score=0.523 total time= 0.0s
[CV 4/5] END ..C=8.9, gamma=0.5, kernel=sigmoid;; score=0.431 total time= 0.0s
[CV 5/5] END ..C=8.9, gamma=0.5, kernel=sigmoid;; score=0.410 total time= 0.0s
[CV 1/5] END ...C=8.9, gamma=0.6, kernel=rbf;; score=0.597 total time= 0.0s
[CV 2/5] END ...C=8.9, gamma=0.6, kernel=rbf;; score=0.600 total time= 0.0s
[CV 3/5] END ...C=8.9, gamma=0.6, kernel=rbf;; score=0.697 total time= 0.0s
[CV 4/5] END ...C=8.9, gamma=0.6, kernel=rbf;; score=0.641 total time= 0.0s
[CV 5/5] END ...C=8.9, gamma=0.6, kernel=rbf;; score=0.667 total time= 0.0s
[CV 1/5] END ...C=8.9, gamma=0.6, kernel=poly;; score=0.546 total time= 0.8s
[CV 2/5] END ...C=8.9, gamma=0.6, kernel=poly;; score=0.513 total time= 1.0s
[CV 3/5] END ...C=8.9, gamma=0.6, kernel=poly;; score=0.569 total time= 1.6s
[CV 4/5] END ...C=8.9, gamma=0.6, kernel=poly;; score=0.569 total time= 1.5s
[CV 5/5] END ...C=8.9, gamma=0.6, kernel=poly;; score=0.590 total time= 1.0s
[CV 1/5] END ..C=8.9, gamma=0.6, kernel=sigmoid;; score=0.434 total time= 0.0s
[CV 2/5] END ..C=8.9, gamma=0.6, kernel=sigmoid;; score=0.467 total time= 0.0s
[CV 3/5] END ..C=8.9, gamma=0.6, kernel=sigmoid;; score=0.456 total time= 0.0s
[CV 4/5] END ..C=8.9, gamma=0.6, kernel=sigmoid;; score=0.436 total time= 0.0s
[CV 5/5] END ..C=8.9, gamma=0.6, kernel=sigmoid;; score=0.497 total time= 0.0s
[CV 1/5] END C=8.9, gamma=0.7000000000000001, kernel=rbf;; score=0.597 total
time= 0.0s
[CV 2/5] END C=8.9, gamma=0.7000000000000001, kernel=rbf;; score=0.590 total
time= 0.0s
[CV 3/5] END C=8.9, gamma=0.7000000000000001, kernel=rbf;; score=0.708 total

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time= 0.0s
[CV 4/5] END C=8.9, gamma=0.7000000000000001, kernel=rbf;, score=0.641 total
time= 0.0s
[CV 5/5] END C=8.9, gamma=0.7000000000000001, kernel=rbf;, score=0.672 total
time= 0.0s
[CV 1/5] END C=8.9, gamma=0.7000000000000001, kernel=poly;, score=0.561 total
time= 1.1s
[CV 2/5] END C=8.9, gamma=0.7000000000000001, kernel=poly;, score=0.533 total
time= 0.9s
[CV 3/5] END C=8.9, gamma=0.7000000000000001, kernel=poly;, score=0.564 total
time= 2.4s
[CV 4/5] END C=8.9, gamma=0.7000000000000001, kernel=poly;, score=0.574 total
time= 1.9s
[CV 5/5] END C=8.9, gamma=0.7000000000000001, kernel=poly;, score=0.585 total
time= 1.6s
[CV 1/5] END C=8.9, gamma=0.7000000000000001, kernel=sigmoid;, score=0.490 total
time= 0.0s
[CV 2/5] END C=8.9, gamma=0.7000000000000001, kernel=sigmoid;, score=0.497 total
time= 0.0s
[CV 3/5] END C=8.9, gamma=0.7000000000000001, kernel=sigmoid;, score=0.482 total
time= 0.0s
[CV 4/5] END C=8.9, gamma=0.7000000000000001, kernel=sigmoid;, score=0.431 total
time= 0.0s
[CV 5/5] END C=8.9, gamma=0.7000000000000001, kernel=sigmoid;, score=0.451 total
time= 0.0s
[CV 1/5] END ...C=8.9, gamma=0.8, kernel=rbf;, score=0.597 total time= 0.0s
[CV 2/5] END ...C=8.9, gamma=0.8, kernel=rbf;, score=0.595 total time= 0.0s
[CV 3/5] END ...C=8.9, gamma=0.8, kernel=rbf;, score=0.682 total time= 0.0s
[CV 4/5] END ...C=8.9, gamma=0.8, kernel=rbf;, score=0.662 total time= 0.0s
[CV 5/5] END ...C=8.9, gamma=0.8, kernel=rbf;, score=0.667 total time= 0.0s
[CV 1/5] END ...C=8.9, gamma=0.8, kernel=poly;, score=0.561 total time= 1.7s
[CV 2/5] END ...C=8.9, gamma=0.8, kernel=poly;, score=0.503 total time= 1.2s
[CV 3/5] END ...C=8.9, gamma=0.8, kernel=poly;, score=0.544 total time= 2.4s
[CV 4/5] END ...C=8.9, gamma=0.8, kernel=poly;, score=0.564 total time= 2.0s
[CV 5/5] END ...C=8.9, gamma=0.8, kernel=poly;, score=0.590 total time= 2.7s
[CV 1/5] END ..C=8.9, gamma=0.8, kernel=sigmoid;, score=0.469 total time= 0.0s
[CV 2/5] END ..C=8.9, gamma=0.8, kernel=sigmoid;, score=0.503 total time= 0.0s
[CV 3/5] END ..C=8.9, gamma=0.8, kernel=sigmoid;, score=0.487 total time= 0.0s
[CV 4/5] END ..C=8.9, gamma=0.8, kernel=sigmoid;, score=0.451 total time= 0.0s
[CV 5/5] END ..C=8.9, gamma=0.8, kernel=sigmoid;, score=0.503 total time= 0.0s
[CV 1/5] END ...C=8.9, gamma=0.9, kernel=rbf;, score=0.597 total time= 0.0s
[CV 2/5] END ...C=8.9, gamma=0.9, kernel=rbf;, score=0.590 total time= 0.0s
[CV 3/5] END ...C=8.9, gamma=0.9, kernel=rbf;, score=0.667 total time= 0.0s
[CV 4/5] END ...C=8.9, gamma=0.9, kernel=rbf;, score=0.667 total time= 0.0s
[CV 5/5] END ...C=8.9, gamma=0.9, kernel=rbf;, score=0.667 total time= 0.0s
[CV 1/5] END ...C=8.9, gamma=0.9, kernel=poly;, score=0.561 total time= 2.6s
[CV 2/5] END ...C=8.9, gamma=0.9, kernel=poly;, score=0.503 total time= 2.1s
[CV 3/5] END ...C=8.9, gamma=0.9, kernel=poly;, score=0.549 total time= 4.7s

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[CV 4/5] END ...C=8.9, gamma=0.9, kernel=poly;;, score=0.559 total time= 3.4s
 [CV 5/5] END ...C=8.9, gamma=0.9, kernel=poly;;, score=0.574 total time= 2.0s
 [CV 1/5] END ..C=8.9, gamma=0.9, kernel=sigmoid;;, score=0.454 total time= 0.0s
 [CV 2/5] END ..C=8.9, gamma=0.9, kernel=sigmoid;;, score=0.503 total time= 0.0s
 [CV 3/5] END ..C=8.9, gamma=0.9, kernel=sigmoid;;, score=0.462 total time= 0.0s
 [CV 4/5] END ..C=8.9, gamma=0.9, kernel=sigmoid;;, score=0.451 total time= 0.0s
 [CV 5/5] END ..C=8.9, gamma=0.9, kernel=sigmoid;;, score=0.467 total time= 0.0s
 [CV 1/5] END ...C=8.9, gamma=1.0, kernel=rbf;;, score=0.602 total time= 0.0s
 [CV 2/5] END ...C=8.9, gamma=1.0, kernel=rbf;;, score=0.569 total time= 0.0s
 [CV 3/5] END ...C=8.9, gamma=1.0, kernel=rbf;;, score=0.677 total time= 0.0s
 [CV 4/5] END ...C=8.9, gamma=1.0, kernel=rbf;;, score=0.656 total time= 0.0s
 [CV 5/5] END ...C=8.9, gamma=1.0, kernel=rbf;;, score=0.662 total time= 0.0s
 [CV 1/5] END ...C=8.9, gamma=1.0, kernel=poly;;, score=0.566 total time= 4.1s
 [CV 2/5] END ...C=8.9, gamma=1.0, kernel=poly;;, score=0.497 total time= 2.6s
 [CV 3/5] END ...C=8.9, gamma=1.0, kernel=poly;;, score=0.528 total time= 5.1s
 [CV 4/5] END ...C=8.9, gamma=1.0, kernel=poly;;, score=0.559 total time= 3.8s
 [CV 5/5] END ...C=8.9, gamma=1.0, kernel=poly;;, score=0.569 total time= 2.2s
 [CV 1/5] END ..C=8.9, gamma=1.0, kernel=sigmoid;;, score=0.474 total time= 0.0s
 [CV 2/5] END ..C=8.9, gamma=1.0, kernel=sigmoid;;, score=0.503 total time= 0.0s
 [CV 3/5] END ..C=8.9, gamma=1.0, kernel=sigmoid;;, score=0.492 total time= 0.0s
 [CV 4/5] END ..C=8.9, gamma=1.0, kernel=sigmoid;;, score=0.431 total time= 0.0s
 [CV 5/5] END ..C=8.9, gamma=1.0, kernel=sigmoid;;, score=0.503 total time= 0.0s
 [CV 1/5] END ...C=10.0, gamma=0.1, kernel=rbf;;, score=0.653 total time= 0.0s
 [CV 2/5] END ...C=10.0, gamma=0.1, kernel=rbf;;, score=0.585 total time= 0.0s
 [CV 3/5] END ...C=10.0, gamma=0.1, kernel=rbf;;, score=0.621 total time= 0.0s
 [CV 4/5] END ...C=10.0, gamma=0.1, kernel=rbf;;, score=0.667 total time= 0.0s
 [CV 5/5] END ...C=10.0, gamma=0.1, kernel=rbf;;, score=0.656 total time= 0.0s
 [CV 1/5] END ...C=10.0, gamma=0.1, kernel=poly;;, score=0.566 total time= 0.0s
 [CV 2/5] END ...C=10.0, gamma=0.1, kernel=poly;;, score=0.538 total time= 0.0s
 [CV 3/5] END ...C=10.0, gamma=0.1, kernel=poly;;, score=0.595 total time= 0.0s
 [CV 4/5] END ...C=10.0, gamma=0.1, kernel=poly;;, score=0.641 total time= 0.0s
 [CV 5/5] END ...C=10.0, gamma=0.1, kernel=poly;;, score=0.631 total time= 0.0s
 [CV 1/5] END .C=10.0, gamma=0.1, kernel=sigmoid;;, score=0.551 total time= 0.0s
 [CV 2/5] END .C=10.0, gamma=0.1, kernel=sigmoid;;, score=0.477 total time= 0.0s
 [CV 3/5] END .C=10.0, gamma=0.1, kernel=sigmoid;;, score=0.487 total time= 0.0s
 [CV 4/5] END .C=10.0, gamma=0.1, kernel=sigmoid;;, score=0.487 total time= 0.0s
 [CV 5/5] END .C=10.0, gamma=0.1, kernel=sigmoid;;, score=0.451 total time= 0.0s
 [CV 1/5] END ...C=10.0, gamma=0.2, kernel=rbf;;, score=0.607 total time= 0.0s
 [CV 2/5] END ...C=10.0, gamma=0.2, kernel=rbf;;, score=0.574 total time= 0.0s
 [CV 3/5] END ...C=10.0, gamma=0.2, kernel=rbf;;, score=0.646 total time= 0.0s
 [CV 4/5] END ...C=10.0, gamma=0.2, kernel=rbf;;, score=0.621 total time= 0.0s
 [CV 5/5] END ...C=10.0, gamma=0.2, kernel=rbf;;, score=0.672 total time= 0.0s
 [CV 1/5] END ...C=10.0, gamma=0.2, kernel=poly;;, score=0.556 total time= 0.0s
 [CV 2/5] END ...C=10.0, gamma=0.2, kernel=poly;;, score=0.513 total time= 0.0s
 [CV 3/5] END ...C=10.0, gamma=0.2, kernel=poly;;, score=0.574 total time= 0.0s
 [CV 4/5] END ...C=10.0, gamma=0.2, kernel=poly;;, score=0.626 total time= 0.0s
 [CV 5/5] END ...C=10.0, gamma=0.2, kernel=poly;;, score=0.569 total time= 0.0s
 [CV 1/5] END .C=10.0, gamma=0.2, kernel=sigmoid;;, score=0.490 total time= 0.0s

```

[CV 2/5] END .C=10.0, gamma=0.2, kernel=sigmoid;; score=0.472 total time= 0.0s
[CV 3/5] END .C=10.0, gamma=0.2, kernel=sigmoid;; score=0.456 total time= 0.0s
[CV 4/5] END .C=10.0, gamma=0.2, kernel=sigmoid;; score=0.456 total time= 0.0s
[CV 5/5] END .C=10.0, gamma=0.2, kernel=sigmoid;; score=0.477 total time= 0.0s
[CV 1/5] END C=10.0, gamma=0.30000000000000004, kernel=rbf;; score=0.597 total
time= 0.0s
[CV 2/5] END C=10.0, gamma=0.30000000000000004, kernel=rbf;; score=0.590 total
time= 0.0s
[CV 3/5] END C=10.0, gamma=0.30000000000000004, kernel=rbf;; score=0.682 total
time= 0.0s
[CV 4/5] END C=10.0, gamma=0.30000000000000004, kernel=rbf;; score=0.615 total
time= 0.0s
[CV 5/5] END C=10.0, gamma=0.30000000000000004, kernel=rbf;; score=0.672 total
time= 0.0s
[CV 1/5] END C=10.0, gamma=0.30000000000000004, kernel=poly;; score=0.520 total
time= 0.1s
[CV 2/5] END C=10.0, gamma=0.30000000000000004, kernel=poly;; score=0.538 total
time= 0.1s
[CV 3/5] END C=10.0, gamma=0.30000000000000004, kernel=poly;; score=0.569 total
time= 0.1s
[CV 4/5] END C=10.0, gamma=0.30000000000000004, kernel=poly;; score=0.610 total
time= 0.2s
[CV 5/5] END C=10.0, gamma=0.30000000000000004, kernel=poly;; score=0.569 total
time= 0.1s
[CV 1/5] END C=10.0, gamma=0.30000000000000004, kernel=sigmoid;; score=0.474
total time= 0.0s
[CV 2/5] END C=10.0, gamma=0.30000000000000004, kernel=sigmoid;; score=0.446
total time= 0.0s
[CV 3/5] END C=10.0, gamma=0.30000000000000004, kernel=sigmoid;; score=0.477
total time= 0.0s
[CV 4/5] END C=10.0, gamma=0.30000000000000004, kernel=sigmoid;; score=0.441
total time= 0.0s
[CV 5/5] END C=10.0, gamma=0.30000000000000004, kernel=sigmoid;; score=0.456
total time= 0.0s
[CV 1/5] END ...C=10.0, gamma=0.4, kernel=rbf;; score=0.592 total time= 0.0s
[CV 2/5] END ...C=10.0, gamma=0.4, kernel=rbf;; score=0.621 total time= 0.0s
[CV 3/5] END ...C=10.0, gamma=0.4, kernel=rbf;; score=0.697 total time= 0.0s
[CV 4/5] END ...C=10.0, gamma=0.4, kernel=rbf;; score=0.600 total time= 0.0s
[CV 5/5] END ...C=10.0, gamma=0.4, kernel=rbf;; score=0.677 total time= 0.0s
[CV 1/5] END ...C=10.0, gamma=0.4, kernel=poly;; score=0.526 total time= 0.5s
[CV 2/5] END ...C=10.0, gamma=0.4, kernel=poly;; score=0.528 total time= 0.3s
[CV 3/5] END ...C=10.0, gamma=0.4, kernel=poly;; score=0.554 total time= 0.5s
[CV 4/5] END ...C=10.0, gamma=0.4, kernel=poly;; score=0.585 total time= 0.6s
[CV 5/5] END ...C=10.0, gamma=0.4, kernel=poly;; score=0.559 total time= 0.4s
[CV 1/5] END .C=10.0, gamma=0.4, kernel=sigmoid;; score=0.464 total time= 0.0s
[CV 2/5] END .C=10.0, gamma=0.4, kernel=sigmoid;; score=0.482 total time= 0.0s
[CV 3/5] END .C=10.0, gamma=0.4, kernel=sigmoid;; score=0.477 total time= 0.0s
[CV 4/5] END .C=10.0, gamma=0.4, kernel=sigmoid;; score=0.462 total time= 0.0s

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[CV 5/5] END .C=10.0, gamma=0.4, kernel=sigmoid;; score=0.431 total time= 0.0s
[CV 1/5] END ..C=10.0, gamma=0.5, kernel=rbf;; score=0.602 total time= 0.0s
[CV 2/5] END ..C=10.0, gamma=0.5, kernel=rbf;; score=0.605 total time= 0.0s
[CV 3/5] END ..C=10.0, gamma=0.5, kernel=rbf;; score=0.697 total time= 0.0s
[CV 4/5] END ..C=10.0, gamma=0.5, kernel=rbf;; score=0.631 total time= 0.0s
[CV 5/5] END ..C=10.0, gamma=0.5, kernel=rbf;; score=0.662 total time= 0.0s
[CV 1/5] END ..C=10.0, gamma=0.5, kernel=poly;; score=0.571 total time= 0.3s
[CV 2/5] END ..C=10.0, gamma=0.5, kernel=poly;; score=0.528 total time= 0.7s
[CV 3/5] END ..C=10.0, gamma=0.5, kernel=poly;; score=0.559 total time= 0.7s
[CV 4/5] END ..C=10.0, gamma=0.5, kernel=poly;; score=0.574 total time= 1.4s
[CV 5/5] END ..C=10.0, gamma=0.5, kernel=poly;; score=0.579 total time= 0.9s
[CV 1/5] END .C=10.0, gamma=0.5, kernel=sigmoid;; score=0.434 total time= 0.0s
[CV 2/5] END .C=10.0, gamma=0.5, kernel=sigmoid;; score=0.477 total time= 0.0s
[CV 3/5] END .C=10.0, gamma=0.5, kernel=sigmoid;; score=0.528 total time= 0.0s
[CV 4/5] END .C=10.0, gamma=0.5, kernel=sigmoid;; score=0.431 total time= 0.0s
[CV 5/5] END .C=10.0, gamma=0.5, kernel=sigmoid;; score=0.415 total time= 0.0s
[CV 1/5] END ..C=10.0, gamma=0.6, kernel=rbf;; score=0.602 total time= 0.0s
[CV 2/5] END ..C=10.0, gamma=0.6, kernel=rbf;; score=0.600 total time= 0.0s
[CV 3/5] END ..C=10.0, gamma=0.6, kernel=rbf;; score=0.697 total time= 0.0s
[CV 4/5] END ..C=10.0, gamma=0.6, kernel=rbf;; score=0.646 total time= 0.0s
[CV 5/5] END ..C=10.0, gamma=0.6, kernel=rbf;; score=0.667 total time= 0.0s
[CV 1/5] END ..C=10.0, gamma=0.6, kernel=poly;; score=0.556 total time= 1.0s
[CV 2/5] END ..C=10.0, gamma=0.6, kernel=poly;; score=0.523 total time= 0.9s
[CV 3/5] END ..C=10.0, gamma=0.6, kernel=poly;; score=0.569 total time= 1.4s
[CV 4/5] END ..C=10.0, gamma=0.6, kernel=poly;; score=0.569 total time= 1.6s
[CV 5/5] END ..C=10.0, gamma=0.6, kernel=poly;; score=0.579 total time= 1.2s
[CV 1/5] END .C=10.0, gamma=0.6, kernel=sigmoid;; score=0.423 total time= 0.0s
[CV 2/5] END .C=10.0, gamma=0.6, kernel=sigmoid;; score=0.497 total time= 0.0s
[CV 3/5] END .C=10.0, gamma=0.6, kernel=sigmoid;; score=0.467 total time= 0.0s
[CV 4/5] END .C=10.0, gamma=0.6, kernel=sigmoid;; score=0.436 total time= 0.0s
[CV 5/5] END .C=10.0, gamma=0.6, kernel=sigmoid;; score=0.482 total time= 0.0s
[CV 1/5] END C=10.0, gamma=0.7000000000000001, kernel=rbf;; score=0.597 total
time= 0.0s
[CV 2/5] END C=10.0, gamma=0.7000000000000001, kernel=rbf;; score=0.590 total
time= 0.0s
[CV 3/5] END C=10.0, gamma=0.7000000000000001, kernel=rbf;; score=0.708 total
time= 0.0s
[CV 4/5] END C=10.0, gamma=0.7000000000000001, kernel=rbf;; score=0.641 total
time= 0.0s
[CV 5/5] END C=10.0, gamma=0.7000000000000001, kernel=rbf;; score=0.672 total
time= 0.0s
[CV 1/5] END C=10.0, gamma=0.7000000000000001, kernel=poly;; score=0.561 total
time= 1.0s
[CV 2/5] END C=10.0, gamma=0.7000000000000001, kernel=poly;; score=0.508 total
time= 1.2s
[CV 3/5] END C=10.0, gamma=0.7000000000000001, kernel=poly;; score=0.559 total
time= 2.0s
[CV 4/5] END C=10.0, gamma=0.7000000000000001, kernel=poly;; score=0.574 total

```



```

time= 2.2s
[CV 5/5] END C=10.0, gamma=0.7000000000000001, kernel=poly;; score=0.585 total
time= 1.8s
[CV 1/5] END C=10.0, gamma=0.7000000000000001, kernel=sigmoid;; score=0.469
total time= 0.0s
[CV 2/5] END C=10.0, gamma=0.7000000000000001, kernel=sigmoid;; score=0.497
total time= 0.0s
[CV 3/5] END C=10.0, gamma=0.7000000000000001, kernel=sigmoid;; score=0.482
total time= 0.0s
[CV 4/5] END C=10.0, gamma=0.7000000000000001, kernel=sigmoid;; score=0.431
total time= 0.0s
[CV 5/5] END C=10.0, gamma=0.7000000000000001, kernel=sigmoid;; score=0.415
total time= 0.0s
[CV 1/5] END ..C=10.0, gamma=0.8, kernel=rbf;; score=0.592 total time= 0.0s
[CV 2/5] END ..C=10.0, gamma=0.8, kernel=rbf;; score=0.595 total time= 0.0s
[CV 3/5] END ..C=10.0, gamma=0.8, kernel=rbf;; score=0.682 total time= 0.0s
[CV 4/5] END ..C=10.0, gamma=0.8, kernel=rbf;; score=0.662 total time= 0.0s
[CV 5/5] END ..C=10.0, gamma=0.8, kernel=rbf;; score=0.667 total time= 0.0s
[CV 1/5] END ..C=10.0, gamma=0.8, kernel=poly;; score=0.566 total time= 2.1s
[CV 2/5] END ..C=10.0, gamma=0.8, kernel=poly;; score=0.503 total time= 1.3s
[CV 3/5] END ..C=10.0, gamma=0.8, kernel=poly;; score=0.549 total time= 2.5s
[CV 4/5] END ..C=10.0, gamma=0.8, kernel=poly;; score=0.559 total time= 2.5s
[CV 5/5] END ..C=10.0, gamma=0.8, kernel=poly;; score=0.579 total time= 2.1s
[CV 1/5] END .C=10.0, gamma=0.8, kernel=sigmoid;; score=0.449 total time= 0.0s
[CV 2/5] END .C=10.0, gamma=0.8, kernel=sigmoid;; score=0.503 total time= 0.0s
[CV 3/5] END .C=10.0, gamma=0.8, kernel=sigmoid;; score=0.482 total time= 0.0s
[CV 4/5] END .C=10.0, gamma=0.8, kernel=sigmoid;; score=0.451 total time= 0.0s
[CV 5/5] END .C=10.0, gamma=0.8, kernel=sigmoid;; score=0.503 total time= 0.0s
[CV 1/5] END ...C=10.0, gamma=0.9, kernel=rbf;; score=0.592 total time= 0.0s
[CV 2/5] END ...C=10.0, gamma=0.9, kernel=rbf;; score=0.590 total time= 0.0s
[CV 3/5] END ...C=10.0, gamma=0.9, kernel=rbf;; score=0.667 total time= 0.0s
[CV 4/5] END ...C=10.0, gamma=0.9, kernel=rbf;; score=0.662 total time= 0.0s
[CV 5/5] END ...C=10.0, gamma=0.9, kernel=rbf;; score=0.662 total time= 0.0s
[CV 1/5] END ...C=10.0, gamma=0.9, kernel=poly;; score=0.561 total time= 2.8s
[CV 2/5] END ...C=10.0, gamma=0.9, kernel=poly;; score=0.503 total time= 2.3s
[CV 3/5] END ...C=10.0, gamma=0.9, kernel=poly;; score=0.533 total time= 2.8s
[CV 4/5] END ...C=10.0, gamma=0.9, kernel=poly;; score=0.554 total time= 3.3s
[CV 5/5] END ...C=10.0, gamma=0.9, kernel=poly;; score=0.569 total time= 2.6s
[CV 1/5] END .C=10.0, gamma=0.9, kernel=sigmoid;; score=0.434 total time= 0.0s
[CV 2/5] END .C=10.0, gamma=0.9, kernel=sigmoid;; score=0.503 total time= 0.0s
[CV 3/5] END .C=10.0, gamma=0.9, kernel=sigmoid;; score=0.487 total time= 0.0s
[CV 4/5] END .C=10.0, gamma=0.9, kernel=sigmoid;; score=0.421 total time= 0.0s
[CV 5/5] END .C=10.0, gamma=0.9, kernel=sigmoid;; score=0.492 total time= 0.0s
[CV 1/5] END ...C=10.0, gamma=1.0, kernel=rbf;; score=0.602 total time= 0.0s
[CV 2/5] END ...C=10.0, gamma=1.0, kernel=rbf;; score=0.569 total time= 0.0s
[CV 3/5] END ...C=10.0, gamma=1.0, kernel=rbf;; score=0.677 total time= 0.0s
[CV 4/5] END ...C=10.0, gamma=1.0, kernel=rbf;; score=0.641 total time= 0.0s
[CV 5/5] END ...C=10.0, gamma=1.0, kernel=rbf;; score=0.662 total time= 0.0s

```

```
[CV 1/5] END ..C=10.0, gamma=1.0, kernel=poly;; score=0.561 total time= 3.3s
[CV 2/5] END ..C=10.0, gamma=1.0, kernel=poly;; score=0.497 total time= 3.0s
[CV 3/5] END ..C=10.0, gamma=1.0, kernel=poly;; score=0.544 total time= 8.5s
[CV 4/5] END ..C=10.0, gamma=1.0, kernel=poly;; score=0.554 total time= 4.3s
[CV 5/5] END ..C=10.0, gamma=1.0, kernel=poly;; score=0.574 total time= 1.9s
[CV 1/5] END .C=10.0, gamma=1.0, kernel=sigmoid;; score=0.474 total time= 0.0s
[CV 2/5] END .C=10.0, gamma=1.0, kernel=sigmoid;; score=0.508 total time= 0.0s
[CV 3/5] END .C=10.0, gamma=1.0, kernel=sigmoid;; score=0.492 total time= 0.0s
[CV 4/5] END .C=10.0, gamma=1.0, kernel=sigmoid;; score=0.436 total time= 0.0s
[CV 5/5] END .C=10.0, gamma=1.0, kernel=sigmoid;; score=0.503 total time= 0.0s
{'C': 1.2000000000000002, 'gamma': 0.5, 'kernel': 'rbf'}
SVC(C=1.2000000000000002, gamma=0.5)
Accuracy: 0.6539
```

```
[ ]: # Grid search for best parameters
param_grid = {'C': np.linspace(1.8, 2.8, 20),
              'gamma': np.linspace(0.6, 0.8, 20),
              'kernel': ['rbf']}
grid = GridSearchCV(SVC(), param_grid, refit=True, verbose=3)
grid.fit(X_train_std, y_train)
print(grid.best_params_)
print(grid.best_estimator_)
grid_predictions = grid.predict(X_test_std)
print('Accuracy: %.4f' % accuracy_score(y_test, grid_predictions))
```

Fitting 5 folds for each of 400 candidates, totalling 2000 fits

```
[CV 1/5] END ..C=1.8, gamma=0.6, kernel=rbf;; score=0.628 total time= 0.0s
[CV 2/5] END ..C=1.8, gamma=0.6, kernel=rbf;; score=0.610 total time= 0.0s
[CV 3/5] END ..C=1.8, gamma=0.6, kernel=rbf;; score=0.672 total time= 0.0s
[CV 4/5] END ..C=1.8, gamma=0.6, kernel=rbf;; score=0.682 total time= 0.0s
```

c:\Users\quanh\AppData\Local\Programs\Python\Python310\lib\site-packages\sklearn\model_selection_split.py:700: UserWarning: The least populated class in y has only 3 members, which is less than n_splits=5.

warnings.warn(

```
[CV 5/5] END ..C=1.8, gamma=0.6, kernel=rbf;; score=0.651 total time= 0.0s
[CV 1/5] END C=1.8, gamma=0.6105263157894737, kernel=rbf;; score=0.628 total
time= 0.0s
[CV 2/5] END C=1.8, gamma=0.6105263157894737, kernel=rbf;; score=0.605 total
time= 0.0s
[CV 3/5] END C=1.8, gamma=0.6105263157894737, kernel=rbf;; score=0.672 total
time= 0.0s
[CV 4/5] END C=1.8, gamma=0.6105263157894737, kernel=rbf;; score=0.687 total
time= 0.0s
[CV 5/5] END C=1.8, gamma=0.6105263157894737, kernel=rbf;; score=0.651 total
time= 0.0s
[CV 1/5] END C=1.8, gamma=0.6210526315789473, kernel=rbf;; score=0.628 total
time= 0.0s
```

[CV 2/5] END C=1.8, gamma=0.6210526315789473, kernel=rbf;, score=0.605 total
 time= 0.0s
 [CV 3/5] END C=1.8, gamma=0.6210526315789473, kernel=rbf;, score=0.677 total
 time= 0.0s
 [CV 4/5] END C=1.8, gamma=0.6210526315789473, kernel=rbf;, score=0.687 total
 time= 0.0s
 [CV 5/5] END C=1.8, gamma=0.6210526315789473, kernel=rbf;, score=0.651 total
 time= 0.0s
 [CV 1/5] END C=1.8, gamma=0.631578947368421, kernel=rbf;, score=0.628 total
 time= 0.0s
 [CV 2/5] END C=1.8, gamma=0.631578947368421, kernel=rbf;, score=0.605 total
 time= 0.0s
 [CV 3/5] END C=1.8, gamma=0.631578947368421, kernel=rbf;, score=0.682 total
 time= 0.0s
 [CV 4/5] END C=1.8, gamma=0.631578947368421, kernel=rbf;, score=0.687 total
 time= 0.0s
 [CV 5/5] END C=1.8, gamma=0.631578947368421, kernel=rbf;, score=0.651 total
 time= 0.0s
 [CV 1/5] END C=1.8, gamma=0.6421052631578947, kernel=rbf;, score=0.628 total
 time= 0.0s
 [CV 2/5] END C=1.8, gamma=0.6421052631578947, kernel=rbf;, score=0.605 total
 time= 0.0s
 [CV 3/5] END C=1.8, gamma=0.6421052631578947, kernel=rbf;, score=0.682 total
 time= 0.0s
 [CV 4/5] END C=1.8, gamma=0.6421052631578947, kernel=rbf;, score=0.687 total
 time= 0.0s
 [CV 5/5] END C=1.8, gamma=0.6421052631578947, kernel=rbf;, score=0.651 total
 time= 0.0s
 [CV 1/5] END C=1.8, gamma=0.6526315789473685, kernel=rbf;, score=0.628 total
 time= 0.0s
 [CV 2/5] END C=1.8, gamma=0.6526315789473685, kernel=rbf;, score=0.605 total
 time= 0.0s
 [CV 3/5] END C=1.8, gamma=0.6526315789473685, kernel=rbf;, score=0.677 total
 time= 0.0s
 [CV 4/5] END C=1.8, gamma=0.6526315789473685, kernel=rbf;, score=0.687 total
 time= 0.0s
 [CV 5/5] END C=1.8, gamma=0.6526315789473685, kernel=rbf;, score=0.651 total
 time= 0.0s
 [CV 1/5] END C=1.8, gamma=0.6631578947368421, kernel=rbf;, score=0.628 total
 time= 0.0s
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 [CV 4/5] END C=2.8, gamma=0.736842105263158, kernel=rbf;, score=0.662 total
 time= 0.0s
 [CV 5/5] END C=2.8, gamma=0.736842105263158, kernel=rbf;, score=0.662 total
 time= 0.0s
 [CV 1/5] END C=2.8, gamma=0.7473684210526316, kernel=rbf;, score=0.612 total
 time= 0.0s
 [CV 2/5] END C=2.8, gamma=0.7473684210526316, kernel=rbf;, score=0.600 total
 time= 0.0s
 [CV 3/5] END C=2.8, gamma=0.7473684210526316, kernel=rbf;, score=0.682 total
 time= 0.0s
 [CV 4/5] END C=2.8, gamma=0.7473684210526316, kernel=rbf;, score=0.667 total
 time= 0.0s
 [CV 5/5] END C=2.8, gamma=0.7473684210526316, kernel=rbf;, score=0.662 total
 time= 0.0s
 [CV 1/5] END C=2.8, gamma=0.7578947368421053, kernel=rbf;, score=0.612 total
 time= 0.0s
 [CV 2/5] END C=2.8, gamma=0.7578947368421053, kernel=rbf;, score=0.595 total
 time= 0.0s
 [CV 3/5] END C=2.8, gamma=0.7578947368421053, kernel=rbf;, score=0.682 total
 time= 0.0s
 [CV 4/5] END C=2.8, gamma=0.7578947368421053, kernel=rbf;, score=0.667 total
 time= 0.0s
 [CV 5/5] END C=2.8, gamma=0.7578947368421053, kernel=rbf;, score=0.656 total
 time= 0.0s
 [CV 1/5] END C=2.8, gamma=0.768421052631579, kernel=rbf;, score=0.612 total
 time= 0.0s
 [CV 2/5] END C=2.8, gamma=0.768421052631579, kernel=rbf;, score=0.600 total
 time= 0.0s
 [CV 3/5] END C=2.8, gamma=0.768421052631579, kernel=rbf;, score=0.682 total
 time= 0.0s
 [CV 4/5] END C=2.8, gamma=0.768421052631579, kernel=rbf;, score=0.667 total
 time= 0.0s

```

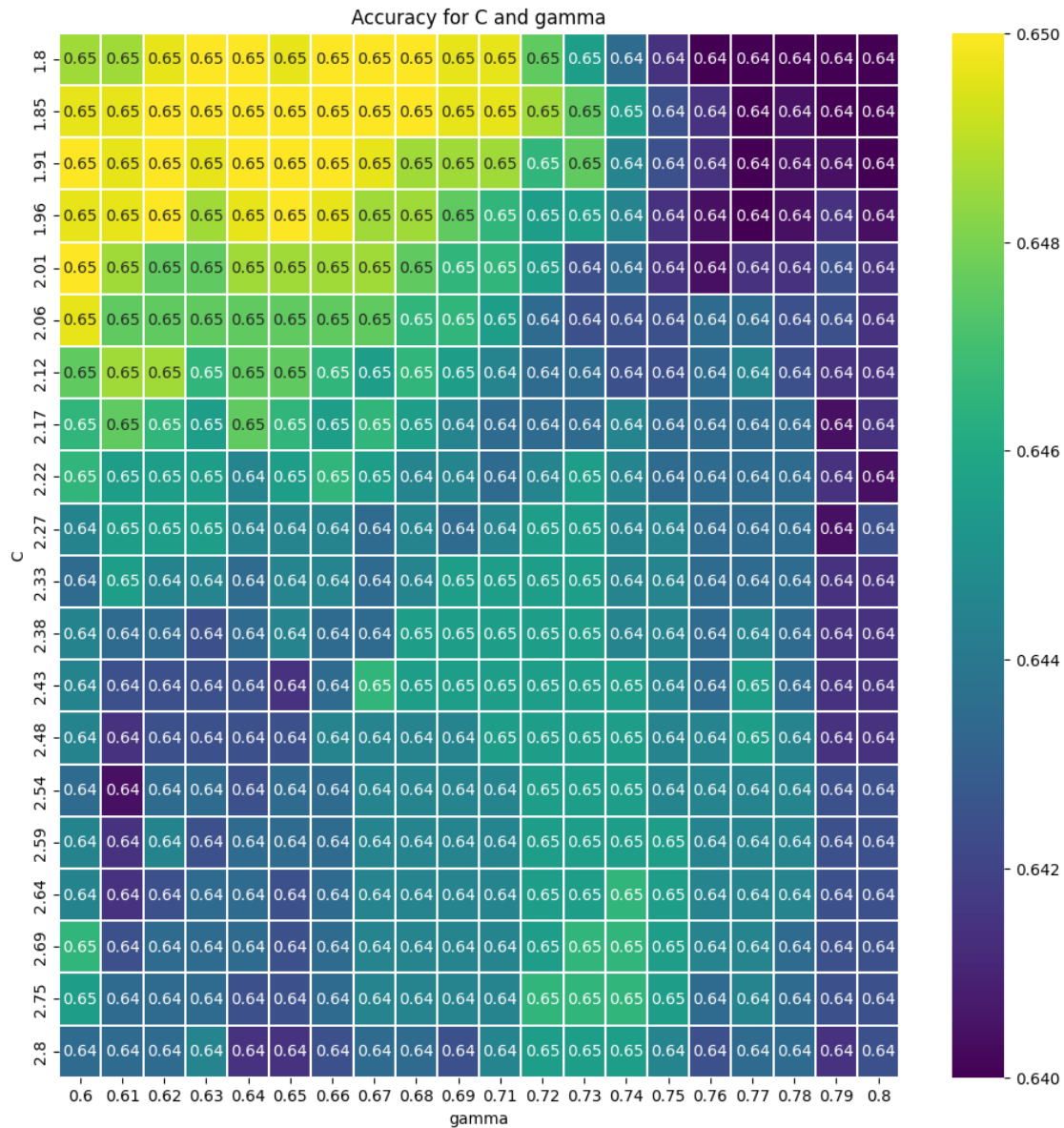
[CV 5/5] END C=2.8, gamma=0.768421052631579, kernel=rbf;, score=0.656 total
time= 0.0s
[CV 1/5] END C=2.8, gamma=0.7789473684210526, kernel=rbf;, score=0.612 total
time= 0.0s
[CV 2/5] END C=2.8, gamma=0.7789473684210526, kernel=rbf;, score=0.605 total
time= 0.0s
[CV 3/5] END C=2.8, gamma=0.7789473684210526, kernel=rbf;, score=0.677 total
time= 0.0s
[CV 4/5] END C=2.8, gamma=0.7789473684210526, kernel=rbf;, score=0.667 total
time= 0.0s
[CV 5/5] END C=2.8, gamma=0.7789473684210526, kernel=rbf;, score=0.656 total
time= 0.0s
[CV 1/5] END C=2.8, gamma=0.7894736842105263, kernel=rbf;, score=0.612 total
time= 0.0s
[CV 2/5] END C=2.8, gamma=0.7894736842105263, kernel=rbf;, score=0.600 total
time= 0.0s
[CV 3/5] END C=2.8, gamma=0.7894736842105263, kernel=rbf;, score=0.667 total
time= 0.0s
[CV 4/5] END C=2.8, gamma=0.7894736842105263, kernel=rbf;, score=0.667 total
time= 0.0s
[CV 5/5] END C=2.8, gamma=0.7894736842105263, kernel=rbf;, score=0.662 total
time= 0.0s
[CV 1/5] END ...C=2.8, gamma=0.8, kernel=rbf;, score=0.607 total time= 0.0s
[CV 2/5] END ...C=2.8, gamma=0.8, kernel=rbf;, score=0.600 total time= 0.0s
[CV 3/5] END ...C=2.8, gamma=0.8, kernel=rbf;, score=0.672 total time= 0.0s
[CV 4/5] END ...C=2.8, gamma=0.8, kernel=rbf;, score=0.672 total time= 0.0s
[CV 5/5] END ...C=2.8, gamma=0.8, kernel=rbf;, score=0.662 total time= 0.0s
{'C': 1.8526315789473684, 'gamma': 0.631578947368421, 'kernel': 'rbf'}
SVC(C=1.8526315789473684, gamma=0.631578947368421)
Accuracy: 0.6587

```

```

[ ]: # visualize the accuracy of the model with with best grid search parameters
C_range = np.linspace(1.8, 2.8, 20)
gamma_range = np.linspace(0.6, 0.8, 20)
scores = grid.cv_results_['mean_test_score'].reshape(len(C_range),
↳len(gamma_range))
plt.figure(figsize=(12, 12))
sns.heatmap(scores, vmin=0.64, vmax=0.65, cmap='viridis', annot=True,
↳annot_kws={"size": 10}, fmt='.2f', linewidths=0.01,
        linecolor="white", xticklabels=np.round(gamma_range, 2),
↳yticklabels=np.round(C_range, 2))
plt.title('Accuracy for C and gamma')
plt.xlabel('gamma')
plt.ylabel('C')
plt.show()

```



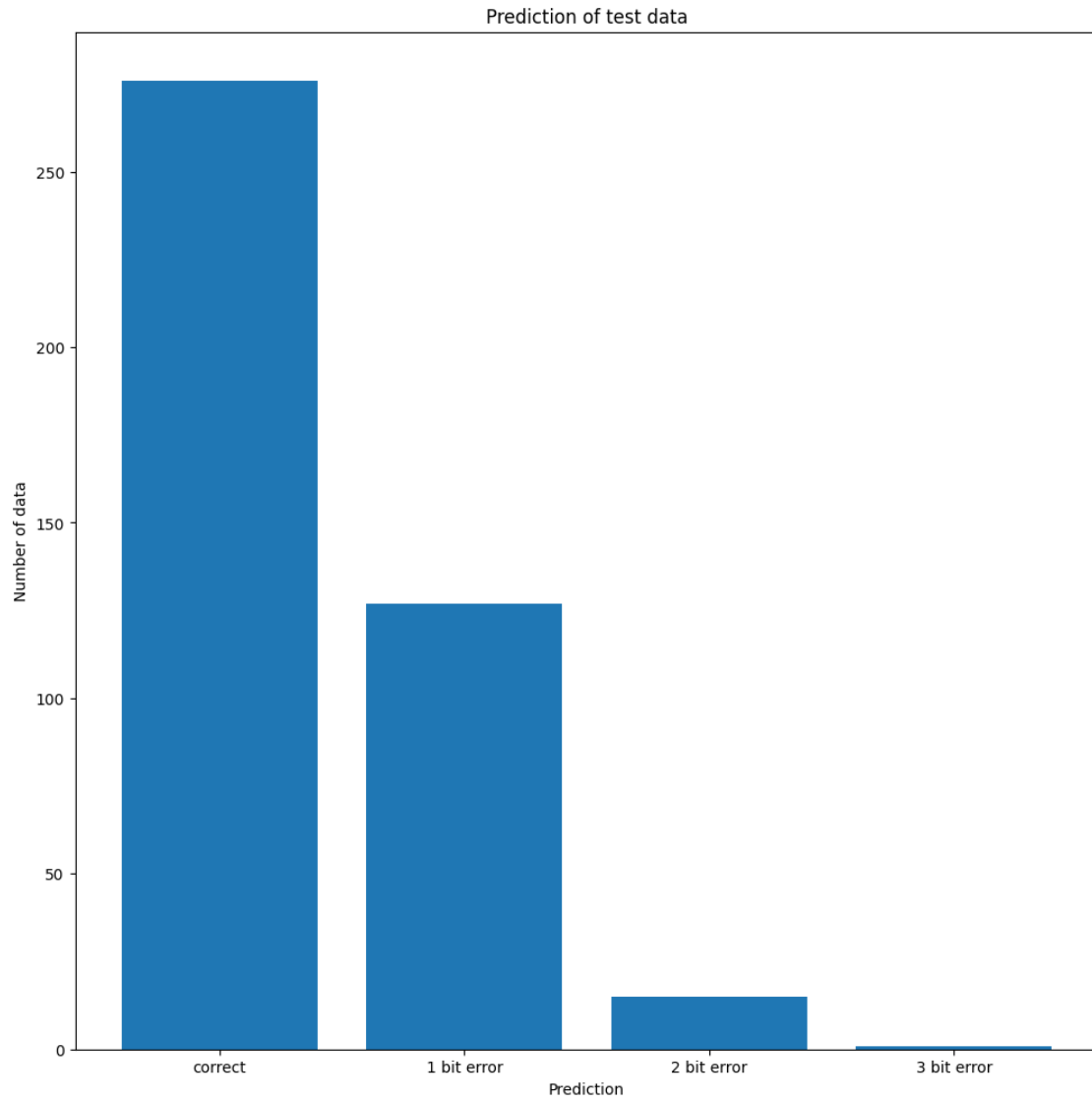
```
[ ]: # visualize the prediction of model of test, make them in 3 plots
# bar plot of correct prediction, 1 bit error prediction, 2 bit error
    ↳ prediction, 3 bit error prediction
# best parameters: C =1.8526315789473684, gamma=0.631578947368421
svc_clf = SVC(kernel='rbf', C=1.8526315789473684, random_state=1, degree=3,
    ↳ gamma=0.631578947368421)
svc_clf.fit(X_train_std,y_train)
y_pred = svc_clf.predict(X_test_std)
correct = 0
one_bit_error = 0
two_bit_error = 0
```

```

threemore_bit_error = 0
for i in range(len(y_pred)):
    if y_pred[i] == y_test[i]:
        correct += 1
    elif abs(y_pred[i] - y_test[i]) == 1:
        one_bit_error += 1
    elif abs(y_pred[i] - y_test[i]) == 2:
        two_bit_error += 1
    else:
        threemore_bit_error += 1
plt.figure(figsize=(12, 12))
plt.bar(['correct', '1 bit error', '2 bit error', '3 bit error'], [correct,
    one_bit_error, two_bit_error, threemore_bit_error])
plt.title('Prediction of test data')
plt.xlabel('Prediction')
plt.ylabel('Number of data')
plt.show()

#print MSE of prediction
print('MSE of prediction: %.4f' % np.mean((y_pred - y_test)**2))

```



MSE of prediction: 0.4678