

# driving\_behavior\_brf\_v1

September 1, 2022

## 0.1 Binary Random Forest / KNN / XGBoost

```
[ ]: import numpy as np
import pandas as pd
import seaborn as sns
import matplotlib.pyplot as plt
```

```
[ ]: df_train = pd.read_csv("../data_mod/train_motion_data.csv")
df_test = pd.read_csv("../data_mod/test_motion_data.csv")

df_train
```

```
[ ]:      AccX      AccY      GyroZ      Class      DiffAccX      DiffAccY      VelX  \
0      0.000000  0.000000  0.101938  NORMAL  0.000000  0.000000  0.000000
1     -1.624864 -1.082492  0.135536  NORMAL -1.624864 -1.082492 -0.812432
2     -0.594660 -0.122410  0.087888  NORMAL  1.030204  0.960082 -0.297330
3      0.738478 -0.228456  0.054902  NORMAL  1.333138 -0.106046  0.369239
4      0.101741  0.777568  0.054902  NORMAL -0.636737  1.006023  0.050871
...      ...      ...      ...      ...      ...      ...
3639  0.915688 -2.017489 -1.236468   SLOW  2.374675 -1.824629  0.457844
3640 -1.934203  0.914925 -0.477162   SLOW -2.849891  2.932414 -0.967102
3641 -0.222845  0.747304  0.054291   SLOW  1.711359 -0.167621 -0.111422
3642 -0.349423  0.067261 -0.004963   SLOW -0.126579 -0.680043 -0.174712
3643 -0.402428  0.406218  0.001145   SLOW -0.053005  0.338957 -0.201214

      VelY
0      0.000000
1     -0.541246
2     -0.061205
3     -0.114228
4      0.388784
...      ...
3639 -1.008745
3640  0.457462
3641  0.373652
3642  0.033630
3643  0.203109
```

[3644 rows x 8 columns]

```
[ ]: df_train.isna().sum()
```

```
[ ]: AccX      0
     AccY      0
     GyroZ     0
     Class     0
     DiffAccX  0
     DiffAccY  0
     VelX      0
     VelY      0
     dtype: int64
```

### 0.1.1 Change categories to numbers

```
[ ]: df_train = df_train.replace(
      {"Class": {"NORMAL": 0, "SLOW": 1, "AGGRESSIVE": 2}})
df_test = df_test.replace(
      {"Class": {"NORMAL": 0, "SLOW": 1, "AGGRESSIVE": 2}})
df_train
```

```
[ ]:      AccX      AccY      GyroZ  Class  DiffAccX  DiffAccY      VelX  \
0      0.000000  0.000000  0.101938      0  0.000000  0.000000  0.000000
1     -1.624864 -1.082492  0.135536      0 -1.624864 -1.082492 -0.812432
2     -0.594660 -0.122410  0.087888      0  1.030204  0.960082 -0.297330
3      0.738478 -0.228456  0.054902      0  1.333138 -0.106046  0.369239
4      0.101741  0.777568  0.054902      0 -0.636737  1.006023  0.050871
...      ...      ...      ...      ...      ...      ...
3639  0.915688 -2.017489 -1.236468      1  2.374675 -1.824629  0.457844
3640 -1.934203  0.914925 -0.477162      1 -2.849891  2.932414 -0.967102
3641 -0.222845  0.747304  0.054291      1  1.711359 -0.167621 -0.111422
3642 -0.349423  0.067261 -0.004963      1 -0.126579 -0.680043 -0.174712
3643 -0.402428  0.406218  0.001145      1 -0.053005  0.338957 -0.201214
```

```
      VelY
0      0.000000
1     -0.541246
2     -0.061205
3     -0.114228
4      0.388784
...      ...
3639 -1.008745
3640  0.457462
3641  0.373652
3642  0.033630
3643  0.203109
```

[3644 rows x 8 columns]

### 0.1.2 Remove unnecessary columns

```
[ ]: # df_train.drop(['AccZ', 'GyroX', 'GyroY', 'Timestamp'], axis=1, inplace=True)
      # df_test.drop(['AccZ', 'GyroX', 'GyroY', 'Timestamp'], axis=1, inplace=True)

      # df_train
```

### 0.1.3 Only select normal and aggressive values

```
[ ]: df_train = df_train.loc[df_train['Class'] != 1]
      df_test = df_test.loc[df_test['Class'] != 1]

      df_train
```

```
[ ]:      AccX      AccY      GyroZ  Class  DiffAccX  DiffAccY      VelX  \
0      0.000000  0.000000  0.101938      0  0.000000  0.000000  0.000000
1     -1.624864 -1.082492  0.135536      0 -1.624864 -1.082492 -0.812432
2     -0.594660 -0.122410  0.087888      0  1.030204  0.960082 -0.297330
3      0.738478 -0.228456  0.054902      0  1.333138 -0.106046  0.369239
4      0.101741  0.777568  0.054902      0 -0.636737  1.006023  0.050871
...      ...      ...      ...      ...      ...      ...
2308  0.538870 -1.645984  0.662712      2  0.200934 -0.962974  0.269435
2309  1.678918 -1.392127 -0.168675      2  1.140048  0.253856  0.839459
2310  0.323433  0.589311  0.639500      2 -1.355486  1.981439  0.161716
2311  2.497311 -0.606175 -0.240757      2  2.173878 -1.195487  1.248655
2312  0.482297 -0.090277 -0.383700      2 -2.015014  0.515898  0.241148

      VelY
0      0.000000
1     -0.541246
2     -0.061205
3     -0.114228
4      0.388784
...      ...
2308 -0.822992
2309 -0.696064
2310  0.294656
2311 -0.303088
2312 -0.045139
```

[2313 rows x 8 columns]

```
[ ]: X_train = df_train.drop(columns=["Class"])
      y_train = df_train['Class']

      X_test = df_test.drop(columns=["Class"])
      y_test = df_test['Class']
```

#### 0.1.4 Normalize data

```
[ ]: X_train = (X_train - X_train.mean()) / X_train.std() * 100
      X_test = (X_test - X_test.mean()) / X_test.std() * 100

      X_train
```

```
[ ]:      AccX      AccY      GyroZ      DiffAccX      DiffAccY      VelX \
0      -3.509345      9.776257      74.896498      -0.018756      0.003491      -3.509345
1     -157.992905     -99.985349     102.351035     -146.171580     -96.829548     -157.992905
2     -60.046498     -2.635757      63.415515      92.645759      85.886499     -60.046498
3      66.701299     -13.388488      36.460154     119.893994     -9.482701      66.701299
4       6.163664      88.619412      36.460154     -57.291816      89.996116       6.163664
...      ...      ...      ...      ...      ...
2308     47.723614    -157.121833     533.137616     18.054827     -86.138250      47.723614
2309    156.113434    -131.381523    -146.237282     102.525996      22.711910     156.113434
2310     27.240939      69.530762     514.169013    -121.941626     177.250781      27.240939
2311    233.921883     -51.688213    -205.139734     195.516638    -106.937380     233.921883
2312     42.344893       0.622405    -321.946292    -181.264697      46.152563      42.344893

      VelY
0       9.776257
1     -99.985349
2     -2.635757
3     -13.388488
4      88.619412
...      ...
2308    -157.121833
2309    -131.381523
2310      69.530762
2311    -51.688213
2312      0.622405
```

[2313 rows x 7 columns]

## 0.2 Train model

### 0.2.1 Random Forest

```
[ ]: from sklearn.ensemble import RandomForestClassifier
     from sklearn.model_selection import GridSearchCV, RandomizedSearchCV
     from sklearn.metrics import confusion_matrix, ConfusionMatrixDisplay

[ ]: rfc = RandomForestClassifier(n_estimators=30, max_depth=15, random_state=5,
    ↪ criterion="entropy")
     rfc.fit(X_train, y_train)

[ ]: RandomForestClassifier(criterion='entropy', max_depth=15, n_estimators=30,
    random_state=5)

[ ]: rfc.score(X_train, y_train)

[ ]: 0.8832684824902723

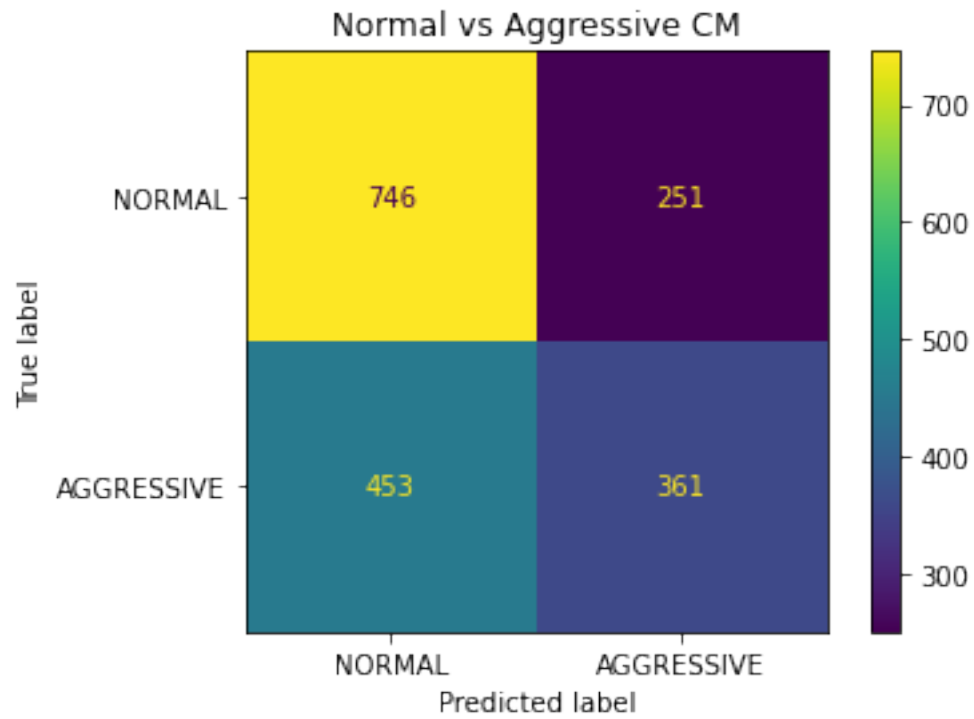
[ ]: rfc.score(X_test, y_test)

[ ]: 0.6112644947542794

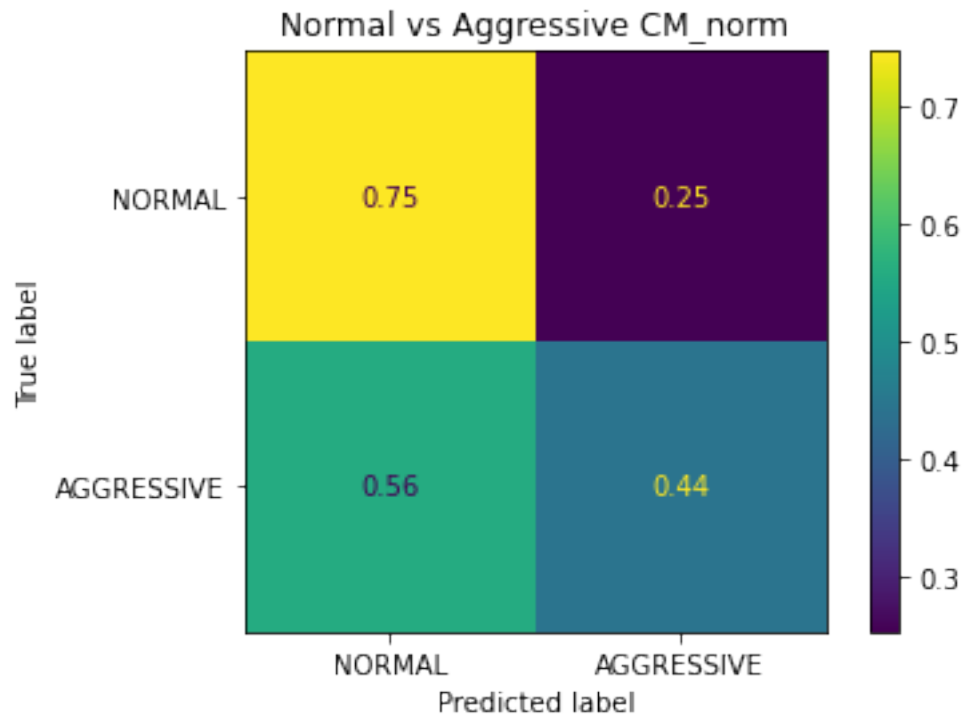
[ ]: classes=['NORMAL', 'AGGRESSIVE']

[ ]: y_pred = rfc.predict(X_test)

     CM = confusion_matrix(y_test, y_pred)
     ConfusionMatrixDisplay(confusion_matrix=CM, display_labels=classes).plot()
     plt.title('Normal vs Aggressive CM')
     plt.show()
```



```
[ ]: CM_norm = confusion_matrix(y_test, y_pred, normalize="true")  
  
ConfusionMatrixDisplay(confusion_matrix=CM_norm, display_labels=classes).plot()  
plt.title('Normal vs Aggressive CM_norm')  
plt.show()
```



```
[ ]: rfc.score(X_test, y_test)
```

```
[ ]: 0.6112644947542794
```

```
[ ]: rfc_imp = pd.DataFrame(rfc.feature_importances_, columns=['importance'])
```

```
[ ]: rfc_imp['importance'] = rfc_imp['importance'] * 100
rfc_imp = rfc_imp.set_index(X_train.columns)
rfc_imp
```

```
[ ]:
importance
AccX      14.332129
AccY      13.421542
GyroZ     13.370358
DiffAccX  13.929883
DiffAccY  15.421162
VelX      14.128181
VelY      15.396745
```

```
[ ]: rfc_imp.sort_values(by='importance', ascending=False)
```

```
[ ]:
importance
DiffAccY  15.421162
```

|          |           |
|----------|-----------|
| VelY     | 15.396745 |
| AccX     | 14.332129 |
| VelX     | 14.128181 |
| DiffAccX | 13.929883 |
| AccY     | 13.421542 |
| GyroZ    | 13.370358 |

## 0.2.2 Train model with RandomSearchCV

```
[ ]: n_estimators = np.arange(2, 200, 2)

max_features = ['sqrt', None]

max_depth = [int(x) for x in np.linspace(5, 20, num = 20)]
max_depth.append(None)

min_samples_split = np.arange(2, 10)

min_samples_leaf = np.arange(1, 4)

bootstrap = [True, False]
random_grid = {'n_estimators': n_estimators,
               'max_features': max_features,
               'max_depth': max_depth,
               'min_samples_split': min_samples_split,
               'min_samples_leaf': min_samples_leaf,
               'bootstrap': bootstrap}

[ ]: weights = {0:1, 2:1.3}
random_forest = RandomForestClassifier(random_state=0, criterion="entropy",
    ↳min_impurity_decrease=0, class_weight="balanced_subsample")

# best_params: test 47.5% {'max_depth': 7, 'n_estimators': 33}

# AccY, AccX, GyroZ, GyroX
# best params 2 : test 47% {'n_estimators': 96, 'min_samples_split': 3
    ↳'min_samples_leaf': 1, 'max_features': 'sqrt', 'max_depth': 5, 'bootstrap':
    ↳False}

random_gscv = RandomizedSearchCV(random_forest, random_grid, n_iter=1000, cv=5,
    ↳verbose=10, n_jobs=10, random_state=0)
random_gscv.fit(X_train, y_train)

[ ]: random_gscv.best_params_
```



```
[ ]: {'n_estimators': 176,  
      'min_samples_split': 9,  
      'min_samples_leaf': 3,  
      'max_features': None,  
      'max_depth': 11,  
      'bootstrap': True}
```

```
[ ]: random_gscv.best_score_
```

```
[ ]: 0.6255934849887334
```

```
[ ]: random_gscv.score(X_train, y_train)
```

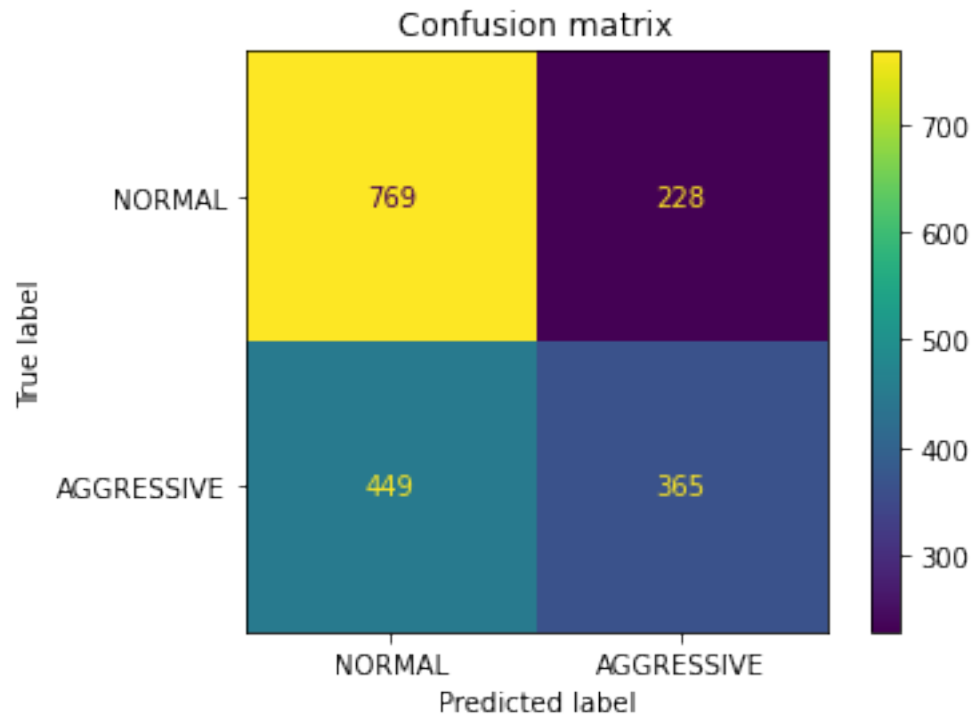
```
[ ]: 0.8067444876783398
```

```
[ ]: random_gscv.score(X_test, y_test)
```

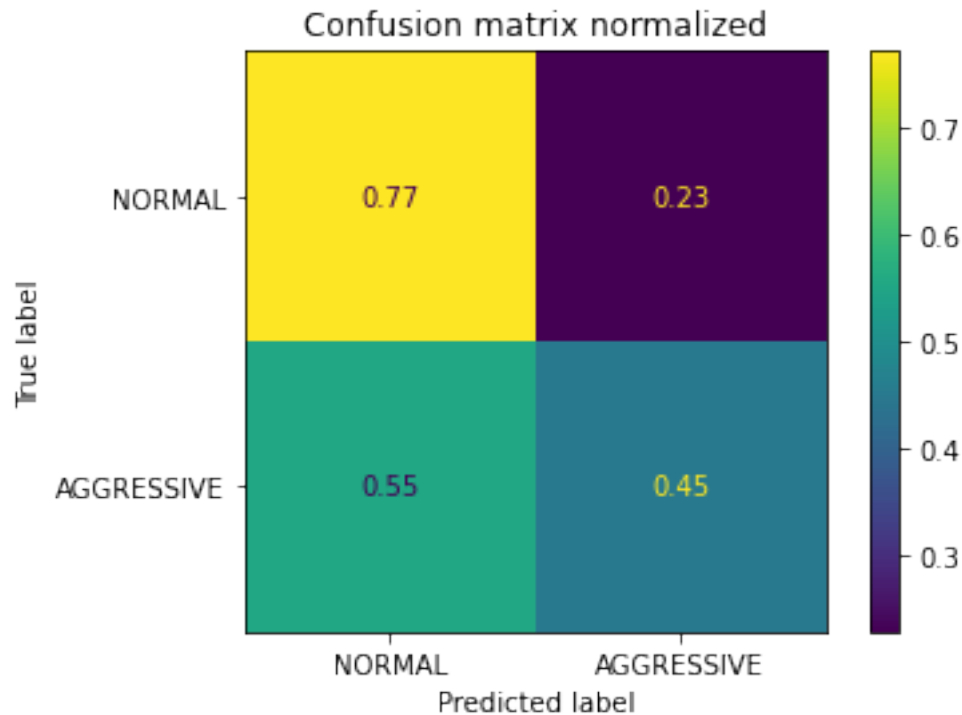
```
[ ]: 0.6261733848702374
```

```
[ ]: classes = ["NORMAL", "AGGRESSIVE"]
```

```
[ ]: y_pred = random_gscv.predict(X_test)  
  
CM = confusion_matrix(y_test, y_pred)  
ConfusionMatrixDisplay(confusion_matrix=CM, display_labels=classes).plot()  
plt.title('Confusion matrix')  
plt.show()
```



```
[ ]: CM_norm = confusion_matrix(y_test, y_pred, normalize="true")  
  
ConfusionMatrixDisplay(confusion_matrix=CM_norm, display_labels=classes).plot()  
plt.title('Confusion matrix normalized')  
plt.show()
```



### Evaluate improvment

```
[ ]: def evaluate(model, test_features, test_labels):
    accuracy = model.score(test_features, test_labels)
    print('Model Performance')
    print('Accuracy = {:.3f}%.'.format(accuracy))

    return accuracy

base_model = RandomForestClassifier(n_estimators = 10, random_state=0,
    ↪ criterion="entropy", min_impurity_decrease=0, class_weight=weights)
base_model.fit(X_train, y_train)
base_accuracy = evaluate(base_model, X_test, y_test)

best_random = random_gscv.best_estimator_
random_accuracy = evaluate(best_random, X_test, y_test)

print(f'Improvement of {100 * (random_accuracy - base_accuracy) / base_accuracy:
    ↪ .3f}%.'
```

Model Performance  
Accuracy = 0.609%.  
Model Performance  
Accuracy = 0.626%.

Improvement of 2.811%.

### 0.2.3 KNN

```
[ ]: from sklearn.neighbors import KNeighborsClassifier
     from sklearn.model_selection import GridSearchCV
```

```
[ ]: Kneigh = KNeighborsClassifier(weights="uniform")

     param_grid = {'n_neighbors': np.arange(1, 100), 'leaf_size': np.arange(20, 40)}

     knn_gscv = GridSearchCV(Kneigh, param_grid, cv=5, verbose=10, n_jobs=10)
     knn_gscv.fit(X_train, y_train)
```

Fitting 5 folds for each of 1980 candidates, totalling 9900 fits

```
[CV 1/5; 1/1980] START leaf_size=20, n_neighbors=1...
[CV 2/5; 1/1980] START leaf_size=20, n_neighbors=1...
[CV 3/5; 1/1980] START leaf_size=20, n_neighbors=1...
[CV 4/5; 1/1980] START leaf_size=20, n_neighbors=1...
[CV 5/5; 1/1980] START leaf_size=20, n_neighbors=1...
[CV 1/5; 2/1980] START leaf_size=20, n_neighbors=2...
[CV 2/5; 2/1980] START leaf_size=20, n_neighbors=2...
[CV 3/5; 2/1980] START leaf_size=20, n_neighbors=2...
[CV 4/5; 2/1980] START leaf_size=20, n_neighbors=2...
[CV 5/5; 2/1980] START leaf_size=20, n_neighbors=2...
[CV 1/5; 1/1980] END leaf_size=20, n_neighbors=1; , score=0.516 total time=
0.0s
[CV 4/5; 1/1980] END leaf_size=20, n_neighbors=1; , score=0.539 total time=
0.0s
[CV 2/5; 2/1980] END leaf_size=20, n_neighbors=2; , score=0.579 total time=
0.0s
[CV 1/5; 2/1980] END leaf_size=20, n_neighbors=2; , score=0.566 total time=
0.0s
[CV 1/5; 3/1980] START leaf_size=20, n_neighbors=3...
[CV 3/5; 1/1980] END leaf_size=20, n_neighbors=1; , score=0.490 total time=
0.0s
[CV 2/5; 3/1980] START leaf_size=20, n_neighbors=3...
[CV 5/5; 1/1980] END leaf_size=20, n_neighbors=1; , score=0.567 total time=
0.0s
[CV 3/5; 3/1980] START leaf_size=20, n_neighbors=3...
[CV 4/5; 3/1980] START leaf_size=20, n_neighbors=3...
[CV 2/5; 1/1980] END leaf_size=20, n_neighbors=1; , score=0.568 total time=
0.0s
[CV 5/5; 3/1980] START leaf_size=20, n_neighbors=3...
[CV 3/5; 2/1980] END leaf_size=20, n_neighbors=2; , score=0.512 total time=
0.0s
[CV 4/5; 2/1980] END leaf_size=20, n_neighbors=2; , score=0.571 total time=
0.0s
```

[CV 1/5; 4/1980] START leaf\_size=20, n\_neighbors=4...  
 [CV 2/5; 4/1980] START leaf\_size=20, n\_neighbors=4...  
 [CV 5/5; 2/1980] END leaf\_size=20, n\_neighbors=2;, score=0.574 total time=0.0s  
 [CV 3/5; 4/1980] START leaf\_size=20, n\_neighbors=4...  
 [CV 5/5; 4/1980] START leaf\_size=20, n\_neighbors=4...  
 [CV 4/5; 4/1980] START leaf\_size=20, n\_neighbors=4...  
 [CV 3/5; 3/1980] END leaf\_size=20, n\_neighbors=3;, score=0.484 total time=0.0s  
 [CV 2/5; 3/1980] END leaf\_size=20, n\_neighbors=3;, score=0.579 total time=0.0s  
 [CV 5/5; 3/1980] END leaf\_size=20, n\_neighbors=3;, score=0.593 total time=0.0s  
 [CV 1/5; 3/1980] END leaf\_size=20, n\_neighbors=3;, score=0.557 total time=0.0s  
 [CV 1/5; 5/1980] START leaf\_size=20, n\_neighbors=5...  
 [CV 5/5; 5/1980] START leaf\_size=20, n\_neighbors=5...  
 [CV 4/5; 3/1980] END leaf\_size=20, n\_neighbors=3;, score=0.584 total time=0.0s  
 [CV 3/5; 5/1980] START leaf\_size=20, n\_neighbors=5...  
 [CV 4/5; 6/1980] START leaf\_size=20, n\_neighbors=6...  
 [CV 1/5; 4/1980] END leaf\_size=20, n\_neighbors=4;, score=0.562 total time=0.0s  
 [CV 2/5; 6/1980] START leaf\_size=20, n\_neighbors=6...  
 [CV 5/5; 4/1980] END leaf\_size=20, n\_neighbors=4;, score=0.593 total time=0.0s  
 [CV 2/5; 4/1980] END leaf\_size=20, n\_neighbors=4;, score=0.581 total time=0.0s  
 [CV 1/5; 7/1980] START leaf\_size=20, n\_neighbors=7...  
 [CV 5/5; 7/1980] START leaf\_size=20, n\_neighbors=7...  
 [CV 3/5; 7/1980] START leaf\_size=20, n\_neighbors=7...  
 [CV 4/5; 4/1980] END leaf\_size=20, n\_neighbors=4;, score=0.580 total time=0.0s  
 [CV 2/5; 8/1980] START leaf\_size=20, n\_neighbors=8...  
 [CV 3/5; 4/1980] END leaf\_size=20, n\_neighbors=4;, score=0.544 total time=0.0s  
 [CV 1/5; 5/1980] END leaf\_size=20, n\_neighbors=5;, score=0.546 total time=0.0s  
 [CV 2/5; 5/1980] START leaf\_size=20, n\_neighbors=5...  
 [CV 4/5; 8/1980] START leaf\_size=20, n\_neighbors=8...  
 [CV 5/5; 5/1980] END leaf\_size=20, n\_neighbors=5;, score=0.591 total time=0.0s  
 [CV 1/5; 6/1980] START leaf\_size=20, n\_neighbors=6...  
 [CV 3/5; 5/1980] END leaf\_size=20, n\_neighbors=5;, score=0.536 total time=0.0s  
 [CV 4/5; 5/1980] START leaf\_size=20, n\_neighbors=5...  
 [CV 5/5; 7/1980] END leaf\_size=20, n\_neighbors=7;, score=0.613 total time=

```

0.0s
[CV 1/5; 8/1980] START leaf_size=20, n_neighbors=8...
[CV 1/5; 7/1980] END leaf_size=20, n_neighbors=7;, score=0.568 total time=
0.0s
[CV 2/5; 7/1980] START leaf_size=20, n_neighbors=7...
[CV 3/5; 7/1980] END leaf_size=20, n_neighbors=7;, score=0.551 total time=
0.0s
[CV 4/5; 7/1980] START leaf_size=20, n_neighbors=7...
[CV 2/5; 6/1980] END leaf_size=20, n_neighbors=6;, score=0.546 total time=
0.0s
[CV 3/5; 6/1980] START leaf_size=20, n_neighbors=6...
[CV 2/5; 8/1980] END leaf_size=20, n_neighbors=8;, score=0.551 total time=
0.0s
[CV 3/5; 8/1980] START leaf_size=20, n_neighbors=8...
[CV 2/5; 5/1980] END leaf_size=20, n_neighbors=5;, score=0.562 total time=
0.0s
[CV 4/5; 6/1980] END leaf_size=20, n_neighbors=6;, score=0.578 total time=
0.0s
[CV 5/5; 6/1980] START leaf_size=20, n_neighbors=6...
[CV 1/5; 6/1980] END leaf_size=20, n_neighbors=6;, score=0.570 total time=
0.0s
[CV 1/5; 9/1980] START leaf_size=20, n_neighbors=9...
[CV 4/5; 8/1980] END leaf_size=20, n_neighbors=8;, score=0.617 total time=
0.0s[CV 3/5; 9/1980] START leaf_size=20,
n_neighbors=9...

[CV 5/5; 8/1980] START leaf_size=20, n_neighbors=8...
[CV 4/5; 5/1980] END leaf_size=20, n_neighbors=5;, score=0.589 total time=
0.0s
[CV 5/5; 9/1980] START leaf_size=20, n_neighbors=9...
[CV 1/5; 8/1980] END leaf_size=20, n_neighbors=8;, score=0.568 total time=
0.0s
[CV 4/5; 7/1980] END leaf_size=20, n_neighbors=7;, score=0.584 total time=
0.0s
[CV 2/5; 10/1980] START leaf_size=20, n_neighbors=10...
[CV 4/5; 10/1980] START leaf_size=20, n_neighbors=10...
[CV 3/5; 8/1980] END leaf_size=20, n_neighbors=8;, score=0.551 total time=
0.0s
[CV 2/5; 7/1980] END leaf_size=20, n_neighbors=7;, score=0.559 total time=
0.0s
[CV 1/5; 11/1980] START leaf_size=20, n_neighbors=11...
[CV 3/5; 11/1980] START leaf_size=20, n_neighbors=11...
[CV 3/5; 6/1980] END leaf_size=20, n_neighbors=6;, score=0.555 total time=
0.0s
[CV 5/5; 11/1980] START leaf_size=20, n_neighbors=11...
[CV 1/5; 9/1980] END leaf_size=20, n_neighbors=9;, score=0.592 total time=
0.0s
[CV 2/5; 9/1980] START leaf_size=20, n_neighbors=9...

```

[CV 3/5; 9/1980] END leaf\_size=20, n\_neighbors=9;, score=0.559 total time=0.0s  
 [CV 4/5; 9/1980] START leaf\_size=20, n\_neighbors=9..  
 [CV 5/5; 8/1980] END leaf\_size=20, n\_neighbors=8;, score=0.608 total time=0.0s  
 [CV 5/5; 9/1980] END leaf\_size=20, n\_neighbors=9;, score=0.613 total time=0.0s  
 [CV 1/5; 10/1980] START leaf\_size=20, n\_neighbors=10..  
 [CV 2/5; 12/1980] START leaf\_size=20,  
 n\_neighbors=12...[CV 4/5; 10/1980] END leaf\_size=20,  
 n\_neighbors=10;, score=0.597 total time= 0.0s  
  
 [CV 5/5; 10/1980] START leaf\_size=20, n\_neighbors=10..  
 [CV 2/5; 10/1980] END leaf\_size=20, n\_neighbors=10;, score=0.568 total time=0.0s  
 [CV 3/5; 10/1980] START leaf\_size=20, n\_neighbors=10..  
 [CV 5/5; 6/1980] END leaf\_size=20, n\_neighbors=6;, score=0.582 total time=0.0s  
 [CV 3/5; 11/1980] END leaf\_size=20, n\_neighbors=11;, score=0.551 total time=0.0s  
 [CV 4/5; 11/1980] START leaf\_size=20, n\_neighbors=11..  
 [CV 4/5; 12/1980] START leaf\_size=20, n\_neighbors=12..  
 [CV 5/5; 11/1980] END leaf\_size=20, n\_neighbors=11;, score=0.606 total time=0.0s  
 [CV 1/5; 12/1980] START leaf\_size=20, n\_neighbors=12..  
 [CV 2/5; 9/1980] END leaf\_size=20, n\_neighbors=9;, score=0.570 total time=0.0s  
 [CV 1/5; 11/1980] END leaf\_size=20, n\_neighbors=11;, score=0.624 total time=0.0s  
 [CV 2/5; 11/1980] START leaf\_size=20, n\_neighbors=11..  
 [CV 4/5; 9/1980] END leaf\_size=20, n\_neighbors=9;, score=0.589 total time=0.0s  
 [CV 1/5; 13/1980] START leaf\_size=20, n\_neighbors=13..  
 [CV 5/5; 13/1980] START leaf\_size=20, n\_neighbors=13..  
 [CV 1/5; 10/1980] END leaf\_size=20, n\_neighbors=10;, score=0.611 total time=0.0s  
 [CV 5/5; 10/1980] END leaf\_size=20, n\_neighbors=10;, score=0.615 total time=0.0s  
 [CV 4/5; 14/1980] START leaf\_size=20, n\_neighbors=14..  
 [CV 3/5; 15/1980] START leaf\_size=20, n\_neighbors=15..  
 [CV 2/5; 12/1980] END leaf\_size=20, n\_neighbors=12;, score=0.581 total time=0.0s  
 [CV 3/5; 12/1980] START leaf\_size=20, n\_neighbors=12..  
 [CV 4/5; 11/1980] END leaf\_size=20, n\_neighbors=11;, score=0.589 total time=0.0s  
 [CV 3/5; 10/1980] END leaf\_size=20, n\_neighbors=10;, score=0.549 total time=0.0s  
 [CV 1/5; 17/1980] START leaf\_size=20, n\_neighbors=17...

[CV 2/5; 16/1980] START leaf\_size=20, n\_neighbors=16..  
 [CV 1/5; 12/1980] END leaf\_size=20, n\_neighbors=12;; score=0.648 total time=0.0s  
 [CV 5/5; 17/1980] START leaf\_size=20, n\_neighbors=17..  
 [CV 4/5; 12/1980] END leaf\_size=20, n\_neighbors=12;; score=0.576 total time=0.0s  
 [CV 5/5; 12/1980] START leaf\_size=20, n\_neighbors=12..  
 [CV 1/5; 13/1980] END leaf\_size=20, n\_neighbors=13;; score=0.633 total time=0.0s  
 [CV 2/5; 13/1980] START leaf\_size=20, n\_neighbors=13..  
 [CV 5/5; 13/1980] END leaf\_size=20, n\_neighbors=13;; score=0.591 total time=0.0s  
 [CV 1/5; 14/1980] START leaf\_size=20, n\_neighbors=14..  
 [CV 3/5; 15/1980] END leaf\_size=20, n\_neighbors=15;; score=0.557 total time=0.0s  
 [CV 2/5; 11/1980] END leaf\_size=20, n\_neighbors=11;; score=0.579 total time=0.0s  
 [CV 4/5; 14/1980] END leaf\_size=20, n\_neighbors=14;; score=0.584 total time=0.0s  
 [CV 4/5; 15/1980] START leaf\_size=20, n\_neighbors=15..  
  
 [CV 5/5; 14/1980] START leaf\_size=20, n\_neighbors=14..  
 [CV 3/5; 12/1980] END leaf\_size=20, n\_neighbors=12;; score=0.546 total time=0.0s  
 [CV 4/5; 18/1980] START leaf\_size=20, n\_neighbors=18..  
 [CV 5/5; 17/1980] END leaf\_size=20, n\_neighbors=17;; score=0.610 total time=0.0s  
 [CV 1/5; 18/1980] START leaf\_size=20, n\_neighbors=18..  
 [CV 2/5; 16/1980] END leaf\_size=20, n\_neighbors=16;; score=0.575 total time=0.0s  
 [CV 3/5; 16/1980] START leaf\_size=20, n\_neighbors=16..  
 [CV 3/5; 19/1980] START leaf\_size=20, n\_neighbors=19..  
 [CV 2/5; 13/1980] END leaf\_size=20, n\_neighbors=13;; score=0.570 total time=0.0s  
 [CV 3/5; 13/1980] START leaf\_size=20, n\_neighbors=13..  
 [CV 1/5; 14/1980] END leaf\_size=20, n\_neighbors=14;; score=0.644 total time=0.0s  
 [CV 2/5; 14/1980] START leaf\_size=20, n\_neighbors=14..  
 [CV 4/5; 15/1980] END leaf\_size=20, n\_neighbors=15;; score=0.584 total time=0.0s  
 [CV 5/5; 15/1980] START leaf\_size=20, n\_neighbors=15..  
 [CV 5/5; 14/1980] END leaf\_size=20, n\_neighbors=14;; score=0.606 total time=0.0s  
 [CV 1/5; 15/1980] START leaf\_size=20, n\_neighbors=15..  
 [CV 5/5; 12/1980] END leaf\_size=20, n\_neighbors=12;; score=0.613 total time=0.0s  
 [CV 1/5; 18/1980] END leaf\_size=20, n\_neighbors=18;; score=0.635 total time=0.0s



[CV 3/5; 13/1980] END leaf\_size=20, n\_neighbors=13;; score=0.553 total time=0.0s  
 [CV 2/5; 18/1980] START leaf\_size=20, n\_neighbors=18..  
 [CV 4/5; 13/1980] START leaf\_size=20, n\_neighbors=13..  
 [CV 4/5; 18/1980] END leaf\_size=20, n\_neighbors=18;; score=0.600 total time=0.0s  
 [CV 5/5; 18/1980] START leaf\_size=20, n\_neighbors=18..  
 [CV 2/5; 20/1980] START leaf\_size=20, n\_neighbors=20..  
 [CV 1/5; 17/1980] END leaf\_size=20, n\_neighbors=17;; score=0.631 total time=0.1s  
 [CV 2/5; 17/1980] START leaf\_size=20, n\_neighbors=17..  
 [CV 2/5; 14/1980] END leaf\_size=20, n\_neighbors=14;; score=0.572 total time=0.0s  
 [CV 3/5; 14/1980] START leaf\_size=20, n\_neighbors=14..  
 [CV 3/5; 19/1980] END leaf\_size=20, n\_neighbors=19;; score=0.551 total time=0.0s  
 [CV 4/5; 19/1980] START leaf\_size=20, n\_neighbors=19..  
 [CV 5/5; 15/1980] END leaf\_size=20, n\_neighbors=15;; score=0.615 total time=0.0s  
 [CV 1/5; 16/1980] START leaf\_size=20, n\_neighbors=16..  
 [CV 3/5; 16/1980] END leaf\_size=20, n\_neighbors=16;; score=0.557 total time=0.0s  
 [CV 4/5; 16/1980] START leaf\_size=20, n\_neighbors=16..  
 [CV 1/5; 15/1980] END leaf\_size=20, n\_neighbors=15;; score=0.637 total time=0.0s  
 [CV 2/5; 15/1980] START leaf\_size=20, n\_neighbors=15..  
 [CV 5/5; 18/1980] END leaf\_size=20, n\_neighbors=18;; score=0.617 total time=0.0s  
 [CV 2/5; 18/1980] END leaf\_size=20, n\_neighbors=18;; score=0.590 total time=0.0s  
 [CV 1/5; 19/1980] START leaf\_size=20,  
 n\_neighbors=19...[CV 4/5; 13/1980] END leaf\_size=20,  
 n\_neighbors=13;; score=0.574 total time= 0.0s  
  
 [CV 3/5; 18/1980] START leaf\_size=20, n\_neighbors=18..  
 [CV 3/5; 14/1980] END leaf\_size=20, n\_neighbors=14;; score=0.544 total time=0.0s  
 [CV 1/5; 21/1980] START leaf\_size=20, n\_neighbors=21..  
 [CV 2/5; 17/1980] END leaf\_size=20, n\_neighbors=17;; score=0.568 total time=0.0s  
 [CV 3/5; 17/1980] START leaf\_size=20, n\_neighbors=17..  
 [CV 1/5; 16/1980] END leaf\_size=20, n\_neighbors=16;; score=0.637 total time=0.0s  
 [CV 2/5; 20/1980] END leaf\_size=20, n\_neighbors=20;; score=0.583 total time=0.0s  
 [CV 3/5; 20/1980] START leaf\_size=20, n\_neighbors=20..  
 [CV 5/5; 21/1980] START leaf\_size=20, n\_neighbors=21..  
 [CV 4/5; 19/1980] END leaf\_size=20, n\_neighbors=19;; score=0.589 total time=

0.0s  
[CV 5/5; 19/1980] START leaf\_size=20, n\_neighbors=19...  
[CV 2/5; 15/1980] END leaf\_size=20, n\_neighbors=15;; score=0.570 total time=  
0.0s  
[CV 4/5; 22/1980] START leaf\_size=20, n\_neighbors=22...  
[CV 3/5; 18/1980] END leaf\_size=20, n\_neighbors=18;; score=0.555 total time=  
0.0s  
[CV 3/5; 23/1980] START leaf\_size=20, n\_neighbors=23...  
[CV 1/5; 19/1980] END leaf\_size=20, n\_neighbors=19;; score=0.637 total time=  
0.0s  
[CV 2/5; 19/1980] START leaf\_size=20, n\_neighbors=19...  
[CV 4/5; 16/1980] END leaf\_size=20, n\_neighbors=16;; score=0.584 total time=  
0.0s  
[CV 5/5; 16/1980] START leaf\_size=20, n\_neighbors=16...  
[CV 1/5; 21/1980] END leaf\_size=20, n\_neighbors=21;; score=0.626 total time=  
0.0s  
[CV 2/5; 21/1980] START leaf\_size=20, n\_neighbors=21...  
[CV 2/5; 24/1980] START leaf\_size=20, n\_neighbors=24...  
[CV 5/5; 21/1980] END leaf\_size=20, n\_neighbors=21;; score=0.621 total time=  
0.0s  
[CV 1/5; 22/1980] START leaf\_size=20, n\_neighbors=22...  
[CV 3/5; 20/1980] END leaf\_size=20, n\_neighbors=20;; score=0.553 total time=  
0.0s  
[CV 4/5; 20/1980] START leaf\_size=20, n\_neighbors=20...  
[CV 5/5; 19/1980] END leaf\_size=20, n\_neighbors=19;; score=0.626 total time=  
0.0s  
[CV 1/5; 20/1980] START leaf\_size=20, n\_neighbors=20...  
[CV 4/5; 22/1980] END leaf\_size=20, n\_neighbors=22;; score=0.600 total time=  
0.0s  
[CV 5/5; 22/1980] START leaf\_size=20, n\_neighbors=22...  
[CV 3/5; 17/1980] END leaf\_size=20, n\_neighbors=17;; score=0.564 total time=  
0.0s  
[CV 4/5; 17/1980] START leaf\_size=20, n\_neighbors=17...  
[CV 3/5; 23/1980] END leaf\_size=20, n\_neighbors=23;; score=0.557 total time=  
0.0s  
[CV 4/5; 23/1980] START leaf\_size=20, n\_neighbors=23...  
[CV 2/5; 21/1980] END leaf\_size=20, n\_neighbors=21;; score=0.581 total time=  
0.0s  
[CV 3/5; 21/1980] START leaf\_size=20, n\_neighbors=21...  
[CV 2/5; 19/1980] END leaf\_size=20, n\_neighbors=19;; score=0.583 total time=  
0.0s  
[CV 5/5; 16/1980] END leaf\_size=20, n\_neighbors=16;; score=0.621 total time=  
0.0s  
[CV 1/5; 25/1980] START leaf\_size=20, n\_neighbors=25...  
[CV 5/5; 25/1980] START leaf\_size=20, n\_neighbors=25...  
[CV 1/5; 22/1980] END leaf\_size=20, n\_neighbors=22;; score=0.622 total time=  
0.0s  
[CV 2/5; 22/1980] START leaf\_size=20, n\_neighbors=22...

[CV 4/5; 20/1980] END leaf\_size=20, n\_neighbors=20;; score=0.600 total time=0.0s  
 [CV 5/5; 20/1980] START leaf\_size=20, n\_neighbors=20...  
 [CV 1/5; 20/1980] END leaf\_size=20, n\_neighbors=20;; score=0.618 total time=0.0s  
 [CV 4/5; 26/1980] START leaf\_size=20, n\_neighbors=26...  
 [CV 5/5; 22/1980] END leaf\_size=20, n\_neighbors=22;; score=0.628 total time=0.0s  
 [CV 1/5; 23/1980] START leaf\_size=20, n\_neighbors=23...  
 [CV 3/5; 21/1980] END leaf\_size=20, n\_neighbors=21;; score=0.559 total time=0.0s  
 [CV 4/5; 21/1980] START leaf\_size=20, n\_neighbors=21...  
 [CV 2/5; 24/1980] END leaf\_size=20, n\_neighbors=24;; score=0.596 total time=0.1s  
 [CV 3/5; 24/1980] START leaf\_size=20, n\_neighbors=24...  
 [CV 4/5; 23/1980] END leaf\_size=20, n\_neighbors=23;; score=0.600 total time=0.0s  
 [CV 5/5; 23/1980] START leaf\_size=20, n\_neighbors=23...  
 [CV 1/5; 25/1980] END leaf\_size=20, n\_neighbors=25;; score=0.646 total time=0.0s  
 [CV 2/5; 25/1980] START leaf\_size=20, n\_neighbors=25...  
 [CV 5/5; 20/1980] END leaf\_size=20, n\_neighbors=20;; score=0.632 total time=0.0s  
 [CV 5/5; 25/1980] END leaf\_size=20, n\_neighbors=25;; score=0.647 total time=0.0s  
 [CV 1/5; 26/1980] START leaf\_size=20, n\_neighbors=26...  
 [CV 3/5; 27/1980] START leaf\_size=20, n\_neighbors=27...  
 [CV 2/5; 22/1980] END leaf\_size=20, n\_neighbors=22;; score=0.587 total time=0.0s  
 [CV 3/5; 22/1980] START leaf\_size=20, n\_neighbors=22...  
 [CV 1/5; 23/1980] END leaf\_size=20, n\_neighbors=23;; score=0.646 total time=0.0s  
 [CV 2/5; 23/1980] START leaf\_size=20, n\_neighbors=23...  
 [CV 4/5; 26/1980] END leaf\_size=20, n\_neighbors=26;; score=0.593 total time=0.0s  
 [CV 5/5; 26/1980] START leaf\_size=20, n\_neighbors=26...  
 [CV 4/5; 17/1980] END leaf\_size=20, n\_neighbors=17;; score=0.580 total time=0.1s  
 [CV 4/5; 21/1980] END leaf\_size=20, n\_neighbors=21;; score=0.606 total time=0.0s  
 [CV 2/5; 28/1980] START leaf\_size=20, n\_neighbors=28...  
 [CV 5/5; 23/1980] END leaf\_size=20, n\_neighbors=23;; score=0.643 total time=0.0s  
 [CV 1/5; 24/1980] START leaf\_size=20, n\_neighbors=24...  
 [CV 1/5; 29/1980] START leaf\_size=20, n\_neighbors=29...  
 [CV 3/5; 24/1980] END leaf\_size=20, n\_neighbors=24;; score=0.564 total time=0.0s  
 [CV 4/5; 24/1980] START leaf\_size=20, n\_neighbors=24...

[CV 2/5; 25/1980] END leaf\_size=20, n\_neighbors=25;, score=0.598 total time=0.0s  
 [CV 3/5; 25/1980] START leaf\_size=20, n\_neighbors=25...  
 [CV 3/5; 22/1980] END leaf\_size=20, n\_neighbors=22;, score=0.555 total time=0.0s  
 [CV 2/5; 23/1980] END leaf\_size=20, n\_neighbors=23;, score=0.583 total time=0.0s  
 [CV 3/5; 27/1980] END leaf\_size=20, n\_neighbors=27;, score=0.568 total time=0.0s  
 [CV 1/5; 26/1980] END leaf\_size=20, n\_neighbors=26;, score=0.639 total time=0.0s  
 [CV 4/5; 27/1980] START leaf\_size=20, n\_neighbors=27...  
 [CV 2/5; 26/1980] START leaf\_size=20, n\_neighbors=26...  
 [CV 5/5; 26/1980] END leaf\_size=20, n\_neighbors=26;, score=0.628 total time=0.0s  
 [CV 1/5; 27/1980] START leaf\_size=20, n\_neighbors=27...  
 [CV 4/5; 30/1980] START leaf\_size=20, n\_neighbors=30...  
 [CV 2/5; 32/1980] START leaf\_size=20, n\_neighbors=32...  
 [CV 2/5; 28/1980] END leaf\_size=20, n\_neighbors=28;, score=0.598 total time=0.0s  
 [CV 3/5; 28/1980] START leaf\_size=20, n\_neighbors=28...  
 [CV 4/5; 24/1980] END leaf\_size=20, n\_neighbors=24;, score=0.597 total time=0.0s  
 [CV 5/5; 24/1980] START leaf\_size=20, n\_neighbors=24...  
 [CV 3/5; 25/1980] END leaf\_size=20, n\_neighbors=25;, score=0.557 total time=0.0s  
 [CV 4/5; 25/1980] START leaf\_size=20, n\_neighbors=25...  
 [CV 4/5; 27/1980] END leaf\_size=20, n\_neighbors=27;, score=0.593 total time=0.0s  
 [CV 5/5; 27/1980] START leaf\_size=20, n\_neighbors=27...  
 [CV 4/5; 30/1980] END leaf\_size=20, n\_neighbors=30;, score=0.595 total time=0.0s  
 [CV 5/5; 30/1980] START leaf\_size=20, n\_neighbors=30...  
 [CV 2/5; 32/1980] END leaf\_size=20, n\_neighbors=32;, score=0.605 total time=0.0s  
 [CV 2/5; 26/1980] END leaf\_size=20, n\_neighbors=26;, score=0.600 total time=0.0s  
  
 [CV 3/5; 26/1980] START leaf\_size=20,  
 n\_neighbors=26...[CV 3/5; 32/1980] START leaf\_size=20,  
 n\_neighbors=32...  
  
 [CV 1/5; 24/1980] END leaf\_size=20, n\_neighbors=24;, score=0.646 total time=0.0s  
 [CV 1/5; 29/1980] END leaf\_size=20, n\_neighbors=29;, score=0.646 total time=0.0s  
 [CV 1/5; 27/1980] END leaf\_size=20, n\_neighbors=27;, score=0.650 total time=0.0s  
 [CV 2/5; 29/1980] START leaf\_size=20,  
 n\_neighbors=29...

[CV 5/5; 33/1980] START leaf\_size=20, n\_neighbors=33...

[CV 2/5; 27/1980] START leaf\_size=20, n\_neighbors=27...

[CV 3/5; 28/1980] END leaf\_size=20, n\_neighbors=28;; score=0.568 total time=0.0s

[CV 4/5; 28/1980] START leaf\_size=20, n\_neighbors=28...

[CV 5/5; 24/1980] END leaf\_size=20, n\_neighbors=24;; score=0.647 total time=0.0s

[CV 3/5; 35/1980] START leaf\_size=20, n\_neighbors=35...

[CV 5/5; 27/1980] END leaf\_size=20, n\_neighbors=27;; score=0.630 total time=0.0s

[CV 1/5; 28/1980] START leaf\_size=20, n\_neighbors=28...

[CV 4/5; 25/1980] END leaf\_size=20, n\_neighbors=25;; score=0.587 total time=0.0s

[CV 3/5; 32/1980] END leaf\_size=20, n\_neighbors=32;; score=0.577 total time=0.0s

[CV 1/5; 37/1980] START leaf\_size=20, n\_neighbors=37...

[CV 4/5; 32/1980] START leaf\_size=20, n\_neighbors=32...

[CV 5/5; 30/1980] END leaf\_size=20, n\_neighbors=30;; score=0.632 total time=0.0s

[CV 1/5; 31/1980] START leaf\_size=20, n\_neighbors=31...

[CV 3/5; 26/1980] END leaf\_size=20, n\_neighbors=26;; score=0.564 total time=0.0s

[CV 4/5; 38/1980] START leaf\_size=20, n\_neighbors=38...

[CV 5/5; 33/1980] END leaf\_size=20, n\_neighbors=33;; score=0.630 total time=0.0s

[CV 1/5; 34/1980] START leaf\_size=20, n\_neighbors=34...

[CV 4/5; 28/1980] END leaf\_size=20, n\_neighbors=28;; score=0.597 total time=0.0s

[CV 5/5; 28/1980] START leaf\_size=20, n\_neighbors=28...

[CV 2/5; 27/1980] END leaf\_size=20, n\_neighbors=27;; score=0.594 total time=0.0s

[CV 2/5; 40/1980] START leaf\_size=20, n\_neighbors=40...

[CV 2/5; 29/1980] END leaf\_size=20, n\_neighbors=29;; score=0.600 total time=0.0s

[CV 3/5; 29/1980] START leaf\_size=20, n\_neighbors=29...

[CV 3/5; 35/1980] END leaf\_size=20, n\_neighbors=35;; score=0.572 total time=0.0s

[CV 4/5; 35/1980] START leaf\_size=20, n\_neighbors=35...

[CV 4/5; 32/1980] END leaf\_size=20, n\_neighbors=32;; score=0.593 total time=0.0s

[CV 5/5; 32/1980] START leaf\_size=20, n\_neighbors=32...

[CV 1/5; 28/1980] END leaf\_size=20, n\_neighbors=28;; score=0.650 total time=0.0s

[CV 1/5; 37/1980] END leaf\_size=20, n\_neighbors=37;; score=0.657 total time=0.0s

[CV 2/5; 37/1980] START leaf\_size=20, n\_neighbors=37...

[CV 1/5; 31/1980] END leaf\_size=20, n\_neighbors=31;; score=0.644 total time=

0.0s  
 [CV 2/5; 31/1980] START leaf\_size=20, n\_neighbors=31...  
 [CV 5/5; 41/1980] START leaf\_size=20, n\_neighbors=41...  
 [CV 5/5; 28/1980] END leaf\_size=20, n\_neighbors=28;; score=0.641 total time=  
 0.0s  
 [CV 4/5; 38/1980] END leaf\_size=20, n\_neighbors=38;; score=0.602 total time=  
 0.0s  
 [CV 5/5; 38/1980] START leaf\_size=20, n\_neighbors=38...  
 [CV 3/5; 43/1980] START leaf\_size=20, n\_neighbors=43...  
 [CV 2/5; 40/1980] END leaf\_size=20, n\_neighbors=40;; score=0.611 total time=  
 0.0s  
 [CV 3/5; 40/1980] START leaf\_size=20, n\_neighbors=40...  
 [CV 1/5; 34/1980] END leaf\_size=20, n\_neighbors=34;; score=0.644 total time=  
 0.0s  
 [CV 2/5; 34/1980] START leaf\_size=20, n\_neighbors=34...  
 [CV 5/5; 32/1980] END leaf\_size=20, n\_neighbors=32;; score=0.628 total time=  
 0.0s  
 [CV 1/5; 33/1980] START leaf\_size=20, n\_neighbors=33...  
 [CV 2/5; 31/1980] END leaf\_size=20, n\_neighbors=31;; score=0.603 total time=  
 0.0s  
 [CV 3/5; 31/1980] START leaf\_size=20, n\_neighbors=31...  
 [CV 2/5; 37/1980] END leaf\_size=20, n\_neighbors=37;; score=0.607 total time=  
 0.0s  
 [CV 3/5; 37/1980] START leaf\_size=20, n\_neighbors=37...  
 [CV 4/5; 35/1980] END leaf\_size=20, n\_neighbors=35;; score=0.604 total time=  
 0.0s  
 [CV 5/5; 35/1980] START leaf\_size=20, n\_neighbors=35...  
 [CV 5/5; 38/1980] END leaf\_size=20, n\_neighbors=38;; score=0.634 total time=  
 0.0s  
 [CV 1/5; 39/1980] START leaf\_size=20, n\_neighbors=39...  
 [CV 3/5; 29/1980] END leaf\_size=20, n\_neighbors=29;; score=0.577 total time=  
 0.0s  
 [CV 4/5; 29/1980] START leaf\_size=20, n\_neighbors=29...  
 [CV 3/5; 43/1980] END leaf\_size=20, n\_neighbors=43;; score=0.566 total time=  
 0.0s  
 [CV 4/5; 43/1980] START leaf\_size=20, n\_neighbors=43...  
 [CV 5/5; 41/1980] END leaf\_size=20, n\_neighbors=41;; score=0.619 total time=  
 0.0s  
 [CV 1/5; 42/1980] START leaf\_size=20, n\_neighbors=42...  
 [CV 1/5; 33/1980] END leaf\_size=20, n\_neighbors=33;; score=0.646 total time=  
 0.0s  
 [CV 2/5; 33/1980] START leaf\_size=20, n\_neighbors=33...  
 [CV 3/5; 40/1980] END leaf\_size=20, n\_neighbors=40;; score=0.572 total time=  
 0.0s  
 [CV 4/5; 40/1980] START leaf\_size=20, n\_neighbors=40...  
 [CV 3/5; 31/1980] END leaf\_size=20, n\_neighbors=31;; score=0.570 total time=  
 0.0s  
 [CV 4/5; 31/1980] START leaf\_size=20, n\_neighbors=31...

[CV 3/5; 37/1980] END leaf\_size=20, n\_neighbors=37;; score=0.568 total time=0.0s  
 [CV 4/5; 37/1980] START leaf\_size=20, n\_neighbors=37...  
 [CV 2/5; 34/1980] END leaf\_size=20, n\_neighbors=34;; score=0.600 total time=0.0s  
 [CV 3/5; 34/1980] START leaf\_size=20, n\_neighbors=34...  
 [CV 5/5; 35/1980] END leaf\_size=20, n\_neighbors=35;; score=0.639 total time=0.0s  
 [CV 1/5; 36/1980] START leaf\_size=20, n\_neighbors=36...  
 [CV 1/5; 39/1980] END leaf\_size=20, n\_neighbors=39;; score=0.654 total time=0.0s  
 [CV 2/5; 39/1980] START leaf\_size=20, n\_neighbors=39...  
 [CV 4/5; 29/1980] END leaf\_size=20, n\_neighbors=29;; score=0.600 total time=0.0s  
 [CV 5/5; 29/1980] START leaf\_size=20, n\_neighbors=29...  
 [CV 4/5; 43/1980] END leaf\_size=20, n\_neighbors=43;; score=0.600 total time=0.0s  
 [CV 2/5; 33/1980] END leaf\_size=20, n\_neighbors=33;; score=0.607 total time=0.0s  
 [CV 3/5; 33/1980] START leaf\_size=20,  
 n\_neighbors=33...[CV 5/5; 43/1980] START leaf\_size=20,  
 n\_neighbors=43...  
  
 [CV 1/5; 42/1980] END leaf\_size=20, n\_neighbors=42;; score=0.667 total time=0.0s  
 [CV 2/5; 42/1980] START leaf\_size=20, n\_neighbors=42...  
 [CV 4/5; 40/1980] END leaf\_size=20, n\_neighbors=40;; score=0.595 total time=0.0s  
 [CV 5/5; 40/1980] START leaf\_size=20, n\_neighbors=40...  
 [CV 4/5; 31/1980] END leaf\_size=20, n\_neighbors=31;; score=0.595 total time=0.0s  
 [CV 5/5; 31/1980] START leaf\_size=20, n\_neighbors=31...  
 [CV 4/5; 37/1980] END leaf\_size=20, n\_neighbors=37;; score=0.610 total time=0.0s  
 [CV 5/5; 37/1980] START leaf\_size=20, n\_neighbors=37...  
 [CV 2/5; 39/1980] END leaf\_size=20, n\_neighbors=39;; score=0.609 total time=0.0s  
 [CV 3/5; 34/1980] END leaf\_size=20, n\_neighbors=34;; score=0.577 total time=0.0s  
 [CV 3/5; 39/1980] START leaf\_size=20, n\_neighbors=39...  
 [CV 4/5; 34/1980] START leaf\_size=20, n\_neighbors=34...  
 [CV 1/5; 36/1980] END leaf\_size=20, n\_neighbors=36;; score=0.644 total time=0.0s  
 [CV 2/5; 36/1980] START leaf\_size=20, n\_neighbors=36...  
 [CV 3/5; 33/1980] END leaf\_size=20, n\_neighbors=33;; score=0.570 total time=0.0s  
 [CV 4/5; 33/1980] START leaf\_size=20, n\_neighbors=33...  
 [CV 5/5; 29/1980] END leaf\_size=20, n\_neighbors=29;; score=0.639 total time=

0.0s  
 [CV 1/5; 30/1980] START leaf\_size=20, n\_neighbors=30...  
 [CV 5/5; 43/1980] END leaf\_size=20, n\_neighbors=43;; score=0.615 total time=  
 0.0s  
 [CV 1/5; 44/1980] START leaf\_size=20, n\_neighbors=44...  
 [CV 5/5; 31/1980] END leaf\_size=20, n\_neighbors=31;; score=0.634 total time=  
 0.0s  
 [CV 1/5; 32/1980] START leaf\_size=20, n\_neighbors=32...  
 [CV 2/5; 42/1980] END leaf\_size=20, n\_neighbors=42;; score=0.618 total time=  
 0.0s  
 [CV 3/5; 42/1980] START leaf\_size=20, n\_neighbors=42...  
 [CV 5/5; 40/1980] END leaf\_size=20, n\_neighbors=40;; score=0.617 total time=  
 0.0s  
 [CV 1/5; 41/1980] START leaf\_size=20, n\_neighbors=41...  
 [CV 5/5; 37/1980] END leaf\_size=20, n\_neighbors=37;; score=0.628 total time=  
 0.0s  
 [CV 1/5; 38/1980] START leaf\_size=20, n\_neighbors=38...  
 [CV 3/5; 39/1980] END leaf\_size=20, n\_neighbors=39;; score=0.575 total time=  
 0.0s  
 [CV 4/5; 39/1980] START leaf\_size=20, n\_neighbors=39...  
 [CV 4/5; 33/1980] END leaf\_size=20, n\_neighbors=33;; score=0.597 total time=  
 0.0s  
 [CV 2/5; 36/1980] END leaf\_size=20, n\_neighbors=36;; score=0.616 total time=  
 0.0s  
 [CV 3/5; 36/1980] START leaf\_size=20, n\_neighbors=36...  
 [CV 1/5; 30/1980] END leaf\_size=20, n\_neighbors=30;; score=0.639 total time=  
 0.0s  
 [CV 2/5; 30/1980] START leaf\_size=20, n\_neighbors=30...  
 [CV 1/5; 45/1980] START leaf\_size=20, n\_neighbors=45...  
 [CV 1/5; 44/1980] END leaf\_size=20, n\_neighbors=44;; score=0.667 total time=  
 0.0s  
 [CV 2/5; 44/1980] START leaf\_size=20, n\_neighbors=44...  
 [CV 4/5; 34/1980] END leaf\_size=20, n\_neighbors=34;; score=0.597 total time=  
 0.0s  
 [CV 5/5; 34/1980] START leaf\_size=20, n\_neighbors=34...  
 [CV 1/5; 38/1980] END leaf\_size=20, n\_neighbors=38;; score=0.652 total time=  
 0.0s  
 [CV 2/5; 38/1980] START leaf\_size=20, n\_neighbors=38...  
 [CV 3/5; 42/1980] END leaf\_size=20, n\_neighbors=42;; score=0.564 total time=  
 0.0s  
 [CV 4/5; 42/1980] START leaf\_size=20, n\_neighbors=42...  
 [CV 1/5; 32/1980] END leaf\_size=20, n\_neighbors=32;; score=0.639 total time=  
 0.0s  
 [CV 1/5; 41/1980] END leaf\_size=20, n\_neighbors=41;; score=0.665 total time=  
 0.0s  
 [CV 2/5; 41/1980] START leaf\_size=20, n\_neighbors=41...  
 [CV 4/5; 46/1980] START leaf\_size=20, n\_neighbors=46...  
 [CV 4/5; 39/1980] END leaf\_size=20, n\_neighbors=39;; score=0.602 total time=



0.0s  
 [CV 5/5; 39/1980] START leaf\_size=20, n\_neighbors=39...  
 [CV 3/5; 36/1980] END leaf\_size=20, n\_neighbors=36;; score=0.566 total time=  
 0.0s  
 [CV 4/5; 36/1980] START leaf\_size=20, n\_neighbors=36...  
 [CV 1/5; 45/1980] END leaf\_size=20, n\_neighbors=45;; score=0.678 total time=  
 0.0s  
 [CV 2/5; 45/1980] START leaf\_size=20, n\_neighbors=45...  
 [CV 2/5; 30/1980] END leaf\_size=20, n\_neighbors=30;; score=0.607 total time=  
 0.0s  
 [CV 3/5; 30/1980] START leaf\_size=20, n\_neighbors=30...  
 [CV 2/5; 38/1980] END leaf\_size=20, n\_neighbors=38;; score=0.613 total time=  
 0.0s  
 [CV 3/5; 38/1980] START leaf\_size=20, n\_neighbors=38...  
 [CV 2/5; 44/1980] END leaf\_size=20, n\_neighbors=44;; score=0.613 total time=  
 0.0s  
 [CV 3/5; 44/1980] START leaf\_size=20, n\_neighbors=44...  
 [CV 4/5; 46/1980] END leaf\_size=20, n\_neighbors=46;; score=0.597 total time=  
 0.0s  
 [CV 5/5; 46/1980] START leaf\_size=20, n\_neighbors=46...  
 [CV 4/5; 42/1980] END leaf\_size=20, n\_neighbors=42;; score=0.608 total time=  
 0.0s  
 [CV 5/5; 34/1980] END leaf\_size=20, n\_neighbors=34;; score=0.634 total time=  
 0.0s[CV 5/5; 42/1980] START leaf\_size=20,  
 n\_neighbors=42...  
  
 [CV 1/5; 35/1980] START leaf\_size=20, n\_neighbors=35...  
 [CV 2/5; 41/1980] END leaf\_size=20, n\_neighbors=41;; score=0.618 total time=  
 0.0s[CV 5/5; 39/1980] END leaf\_size=20, n\_neighbors=39;; score=0.636 total time=  
 0.0s  
 [CV 1/5; 40/1980] START leaf\_size=20, n\_neighbors=40...  
  
 [CV 3/5; 41/1980] START leaf\_size=20, n\_neighbors=41...  
 [CV 3/5; 30/1980] END leaf\_size=20, n\_neighbors=30;; score=0.579 total time=  
 0.0s  
 [CV 2/5; 45/1980] END leaf\_size=20, n\_neighbors=45;; score=0.611 total time=  
 0.0s  
 [CV 3/5; 45/1980] START leaf\_size=20, n\_neighbors=45...  
 [CV 2/5; 48/1980] START leaf\_size=20, n\_neighbors=48...  
 [CV 4/5; 36/1980] END leaf\_size=20, n\_neighbors=36;; score=0.600 total time=  
 0.0s  
 [CV 5/5; 36/1980] START leaf\_size=20, n\_neighbors=36...  
 [CV 3/5; 38/1980] END leaf\_size=20, n\_neighbors=38;; score=0.566 total time=  
 0.0s  
 [CV 5/5; 49/1980] START leaf\_size=20, n\_neighbors=49...  
 [CV 3/5; 44/1980] END leaf\_size=20, n\_neighbors=44;; score=0.570 total time=  
 0.0s  
 [CV 4/5; 44/1980] START leaf\_size=20, n\_neighbors=44...

[CV 5/5; 46/1980] END leaf\_size=20, n\_neighbors=46;; score=0.619 total time=0.0s  
 [CV 1/5; 47/1980] START leaf\_size=20, n\_neighbors=47...  
 [CV 1/5; 40/1980] END leaf\_size=20, n\_neighbors=40;; score=0.661 total time=0.0s  
 [CV 3/5; 41/1980] END leaf\_size=20, n\_neighbors=41;; score=0.568 total time=0.0s  
 [CV 4/5; 41/1980] START leaf\_size=20, n\_neighbors=41...  
 [CV 3/5; 51/1980] START leaf\_size=20, n\_neighbors=51...  
 [CV 3/5; 45/1980] END leaf\_size=20, n\_neighbors=45;; score=0.575 total time=0.0s  
 [CV 4/5; 45/1980] START leaf\_size=20, n\_neighbors=45...  
 [CV 5/5; 42/1980] END leaf\_size=20, n\_neighbors=42;; score=0.621 total time=0.0s  
 [CV 1/5; 43/1980] START leaf\_size=20, n\_neighbors=43...  
 [CV 5/5; 36/1980] END leaf\_size=20, n\_neighbors=36;; score=0.628 total time=0.0s  
 [CV 1/5; 53/1980] START leaf\_size=20, n\_neighbors=53...  
 [CV 2/5; 48/1980] END leaf\_size=20, n\_neighbors=48;; score=0.609 total time=0.0s  
 [CV 3/5; 48/1980] START leaf\_size=20, n\_neighbors=48...  
 [CV 5/5; 49/1980] END leaf\_size=20, n\_neighbors=49;; score=0.623 total time=0.0s  
 [CV 1/5; 50/1980] START leaf\_size=20, n\_neighbors=50...  
 [CV 4/5; 44/1980] END leaf\_size=20, n\_neighbors=44;; score=0.597 total time=0.0s  
 [CV 5/5; 44/1980] START leaf\_size=20, n\_neighbors=44...  
 [CV 1/5; 35/1980] END leaf\_size=20, n\_neighbors=35;; score=0.650 total time=0.1s  
 [CV 1/5; 47/1980] END leaf\_size=20, n\_neighbors=47;; score=0.676 total time=0.0s  
 [CV 2/5; 35/1980] START leaf\_size=20, n\_neighbors=35...  
  
 [CV 2/5; 47/1980] START leaf\_size=20, n\_neighbors=47...  
 [CV 4/5; 45/1980] END leaf\_size=20, n\_neighbors=45;; score=0.600 total time=0.0s  
 [CV 5/5; 45/1980] START leaf\_size=20, n\_neighbors=45...  
 [CV 3/5; 51/1980] END leaf\_size=20, n\_neighbors=51;; score=0.566 total time=0.0s  
 [CV 4/5; 51/1980] START leaf\_size=20, n\_neighbors=51...  
 [CV 4/5; 41/1980] END leaf\_size=20, n\_neighbors=41;; score=0.610 total time=0.0s  
 [CV 4/5; 54/1980] START leaf\_size=20, n\_neighbors=54...  
 [CV 1/5; 53/1980] END leaf\_size=20, n\_neighbors=53;; score=0.678 total time=0.0s  
 [CV 2/5; 53/1980] START leaf\_size=20, n\_neighbors=53...  
 [CV 3/5; 48/1980] END leaf\_size=20, n\_neighbors=48;; score=0.562 total time=0.0s

[CV 4/5; 48/1980] START leaf\_size=20, n\_neighbors=48..  
 [CV 1/5; 50/1980] END leaf\_size=20, n\_neighbors=50;; score=0.678 total time=0.0s  
 [CV 2/5; 50/1980] START leaf\_size=20, n\_neighbors=50..  
 [CV 5/5; 44/1980] END leaf\_size=20, n\_neighbors=44;; score=0.615 total time=0.0s  
 [CV 1/5; 43/1980] END leaf\_size=20, n\_neighbors=43;; score=0.674 total time=0.0s  
 [CV 2/5; 43/1980] START leaf\_size=20, n\_neighbors=43..  
 [CV 2/5; 47/1980] END leaf\_size=20, n\_neighbors=47;; score=0.611 total time=0.0s  
 [CV 3/5; 47/1980] START leaf\_size=20, n\_neighbors=47..  
 [CV 2/5; 56/1980] START leaf\_size=20, n\_neighbors=56..  
 [CV 5/5; 45/1980] END leaf\_size=20, n\_neighbors=45;; score=0.619 total time=0.0s  
 [CV 1/5; 46/1980] START leaf\_size=20, n\_neighbors=46..  
 [CV 4/5; 51/1980] END leaf\_size=20, n\_neighbors=51;; score=0.602 total time=0.0s  
 [CV 5/5; 51/1980] START leaf\_size=20, n\_neighbors=51..  
 [CV 2/5; 53/1980] END leaf\_size=20, n\_neighbors=53;; score=0.611 total time=0.0s  
 [CV 3/5; 53/1980] START leaf\_size=20, n\_neighbors=53..  
 [CV 2/5; 35/1980] END leaf\_size=20, n\_neighbors=35;; score=0.607 total time=0.0s  
 [CV 4/5; 54/1980] END leaf\_size=20, n\_neighbors=54;; score=0.595 total time=0.0s  
 [CV 5/5; 54/1980] START leaf\_size=20, n\_neighbors=54..  
 [CV 2/5; 50/1980] END leaf\_size=20, n\_neighbors=50;; score=0.603 total time=0.0s  
 [CV 3/5; 50/1980] START leaf\_size=20, n\_neighbors=50..  
 [CV 5/5; 57/1980] START leaf\_size=20, n\_neighbors=57..  
 [CV 4/5; 48/1980] END leaf\_size=20, n\_neighbors=48;; score=0.589 total time=0.0s  
 [CV 5/5; 48/1980] START leaf\_size=20, n\_neighbors=48..  
 [CV 3/5; 47/1980] END leaf\_size=20, n\_neighbors=47;; score=0.572 total time=0.0s  
 [CV 4/5; 47/1980] START leaf\_size=20, n\_neighbors=47..  
 [CV 1/5; 46/1980] END leaf\_size=20, n\_neighbors=46;; score=0.672 total time=0.0s  
 [CV 2/5; 46/1980] START leaf\_size=20, n\_neighbors=46..  
 [CV 2/5; 56/1980] END leaf\_size=20, n\_neighbors=56;; score=0.609 total time=0.0s  
 [CV 3/5; 56/1980] START leaf\_size=20, n\_neighbors=56..  
 [CV 5/5; 51/1980] END leaf\_size=20, n\_neighbors=51;; score=0.621 total time=0.0s  
 [CV 1/5; 52/1980] START leaf\_size=20, n\_neighbors=52..  
 [CV 2/5; 43/1980] END leaf\_size=20, n\_neighbors=43;; score=0.616 total time=0.0s

[CV 3/5; 59/1980] START leaf\_size=20, n\_neighbors=59..  
 [CV 3/5; 53/1980] END leaf\_size=20, n\_neighbors=53;; score=0.572 total time=0.0s  
 [CV 4/5; 53/1980] START leaf\_size=20, n\_neighbors=53..  
 [CV 5/5; 54/1980] END leaf\_size=20, n\_neighbors=54;; score=0.608 total time=0.0s  
 [CV 1/5; 55/1980] START leaf\_size=20, n\_neighbors=55..  
 [CV 3/5; 50/1980] END leaf\_size=20, n\_neighbors=50;; score=0.557 total time=0.0s  
 [CV 4/5; 50/1980] START leaf\_size=20, n\_neighbors=50..  
 [CV 4/5; 47/1980] END leaf\_size=20, n\_neighbors=47;; score=0.589 total time=0.0s  
 [CV 5/5; 47/1980] START leaf\_size=20, n\_neighbors=47..  
 [CV 5/5; 48/1980] END leaf\_size=20, n\_neighbors=48;; score=0.630 total time=0.0s  
 [CV 1/5; 49/1980] START leaf\_size=20, n\_neighbors=49..  
 [CV 2/5; 46/1980] END leaf\_size=20, n\_neighbors=46;; score=0.616 total time=0.0s  
 [CV 3/5; 46/1980] START leaf\_size=20, n\_neighbors=46..  
 [CV 3/5; 56/1980] END leaf\_size=20, n\_neighbors=56;; score=0.551 total time=0.0s  
 [CV 4/5; 56/1980] START leaf\_size=20, n\_neighbors=56..  
 [CV 1/5; 52/1980] END leaf\_size=20, n\_neighbors=52;; score=0.676 total time=0.0s  
 [CV 2/5; 52/1980] START leaf\_size=20, n\_neighbors=52..  
 [CV 5/5; 57/1980] END leaf\_size=20, n\_neighbors=57;; score=0.610 total time=0.1s  
 [CV 1/5; 58/1980] START leaf\_size=20, n\_neighbors=58..  
 [CV 4/5; 53/1980] END leaf\_size=20, n\_neighbors=53;; score=0.600 total time=0.0s  
 [CV 5/5; 53/1980] START leaf\_size=20, n\_neighbors=53..  
 [CV 4/5; 50/1980] END leaf\_size=20, n\_neighbors=50;; score=0.597 total time=0.0s  
 [CV 5/5; 50/1980] START leaf\_size=20, n\_neighbors=50..  
 [CV 1/5; 55/1980] END leaf\_size=20, n\_neighbors=55;; score=0.667 total time=0.0s  
 [CV 2/5; 55/1980] START leaf\_size=20, n\_neighbors=55..  
 [CV 5/5; 47/1980] END leaf\_size=20, n\_neighbors=47;; score=0.623 total time=0.0s  
 [CV 1/5; 48/1980] START leaf\_size=20, n\_neighbors=48..  
 [CV 3/5; 46/1980] END leaf\_size=20, n\_neighbors=46;; score=0.572 total time=0.0s  
 [CV 3/5; 59/1980] END leaf\_size=20, n\_neighbors=59;; score=0.553 total time=0.0s  
 [CV 4/5; 59/1980] START leaf\_size=20, n\_neighbors=59..  
 [CV 1/5; 61/1980] START leaf\_size=20, n\_neighbors=61..  
 [CV 1/5; 49/1980] END leaf\_size=20, n\_neighbors=49;; score=0.676 total time=0.0s

[CV 2/5; 49/1980] START leaf\_size=20, n\_neighbors=49...  
 [CV 2/5; 52/1980] END leaf\_size=20, n\_neighbors=52;; score=0.611 total time=0.0s  
 [CV 3/5; 52/1980] START leaf\_size=20, n\_neighbors=52...  
 [CV 4/5; 56/1980] END leaf\_size=20, n\_neighbors=56;; score=0.591 total time=0.0s  
 [CV 5/5; 56/1980] START leaf\_size=20, n\_neighbors=56...  
 [CV 5/5; 50/1980] END leaf\_size=20, n\_neighbors=50;; score=0.619 total time=0.0s  
 [CV 1/5; 51/1980] START leaf\_size=20, n\_neighbors=51...  
 [CV 2/5; 55/1980] END leaf\_size=20, n\_neighbors=55;; score=0.618 total time=0.0s  
 [CV 3/5; 55/1980] START leaf\_size=20, n\_neighbors=55...  
 [CV 5/5; 53/1980] END leaf\_size=20, n\_neighbors=53;; score=0.613 total time=0.0s  
 [CV 1/5; 54/1980] START leaf\_size=20, n\_neighbors=54...  
 [CV 1/5; 48/1980] END leaf\_size=20, n\_neighbors=48;; score=0.672 total time=0.0s  
 [CV 1/5; 58/1980] END leaf\_size=20, n\_neighbors=58;; score=0.665 total time=0.0s  
  
 [CV 2/5; 58/1980] START leaf\_size=20, n\_neighbors=58...  
 [CV 4/5; 62/1980] START leaf\_size=20, n\_neighbors=62...  
 [CV 3/5; 52/1980] END leaf\_size=20, n\_neighbors=52;; score=0.566 total time=0.0s  
 [CV 1/5; 61/1980] END leaf\_size=20, n\_neighbors=61;; score=0.665 total time=0.0s  
 [CV 2/5; 61/1980] START leaf\_size=20, n\_neighbors=61...  
 [CV 4/5; 52/1980] START leaf\_size=20, n\_neighbors=52...  
  
 [CV 5/5; 56/1980] END leaf\_size=20, n\_neighbors=56;; score=0.613 total time=0.0s  
 [CV 1/5; 57/1980] START leaf\_size=20, n\_neighbors=57...  
 [CV 2/5; 49/1980] END leaf\_size=20, n\_neighbors=49;; score=0.622 total time=0.0s  
 [CV 3/5; 49/1980] START leaf\_size=20, n\_neighbors=49...  
 [CV 1/5; 51/1980] END leaf\_size=20, n\_neighbors=51;; score=0.680 total time=0.0s  
 [CV 2/5; 51/1980] START leaf\_size=20, n\_neighbors=51...  
 [CV 4/5; 59/1980] END leaf\_size=20, n\_neighbors=59;; score=0.604 total time=0.1s  
 [CV 5/5; 59/1980] START leaf\_size=20, n\_neighbors=59...  
 [CV 3/5; 55/1980] END leaf\_size=20, n\_neighbors=55;; score=0.564 total time=0.0s  
 [CV 4/5; 55/1980] START leaf\_size=20, n\_neighbors=55...  
 [CV 1/5; 54/1980] END leaf\_size=20, n\_neighbors=54;; score=0.667 total time=0.0s  
 [CV 2/5; 54/1980] START leaf\_size=20, n\_neighbors=54...

[CV 2/5; 61/1980] END leaf\_size=20, n\_neighbors=61;; score=0.603 total time=0.0s  
 [CV 3/5; 61/1980] START leaf\_size=20, n\_neighbors=61..  
 [CV 4/5; 52/1980] END leaf\_size=20, n\_neighbors=52;; score=0.597 total time=0.0s  
 [CV 4/5; 62/1980] END leaf\_size=20, n\_neighbors=62;; score=0.600 total time=0.0s  
 [CV 5/5; 52/1980] START leaf\_size=20, n\_neighbors=52..  
 [CV 5/5; 62/1980] START leaf\_size=20, n\_neighbors=62..  
 [CV 2/5; 58/1980] END leaf\_size=20, n\_neighbors=58;; score=0.609 total time=0.0s  
 [CV 3/5; 58/1980] START leaf\_size=20, n\_neighbors=58..  
 [CV 1/5; 57/1980] END leaf\_size=20, n\_neighbors=57;; score=0.665 total time=0.0s  
 [CV 2/5; 57/1980] START leaf\_size=20, n\_neighbors=57..  
 [CV 2/5; 51/1980] END leaf\_size=20, n\_neighbors=51;; score=0.618 total time=0.0s  
 [CV 3/5; 49/1980] END leaf\_size=20, n\_neighbors=49;; score=0.568 total time=0.0s  
 [CV 4/5; 49/1980] START leaf\_size=20, n\_neighbors=49..  
 [CV 2/5; 64/1980] START leaf\_size=20, n\_neighbors=64..  
 [CV 4/5; 55/1980] END leaf\_size=20, n\_neighbors=55;; score=0.593 total time=0.0s  
 [CV 5/5; 55/1980] START leaf\_size=20, n\_neighbors=55..  
 [CV 2/5; 54/1980] END leaf\_size=20, n\_neighbors=54;; score=0.618 total time=0.0s  
 [CV 3/5; 54/1980] START leaf\_size=20, n\_neighbors=54..  
 [CV 3/5; 61/1980] END leaf\_size=20, n\_neighbors=61;; score=0.557 total time=0.0s  
 [CV 5/5; 52/1980] END leaf\_size=20, n\_neighbors=52;; score=0.619 total time=0.0s  
 [CV 4/5; 61/1980] START leaf\_size=20, n\_neighbors=61..  
 [CV 5/5; 65/1980] START leaf\_size=20, n\_neighbors=65..  
 [CV 5/5; 62/1980] END leaf\_size=20, n\_neighbors=62;; score=0.610 total time=0.0s  
 [CV 1/5; 63/1980] START leaf\_size=20, n\_neighbors=63..  
 [CV 2/5; 57/1980] END leaf\_size=20, n\_neighbors=57;; score=0.616 total time=0.0s  
 [CV 3/5; 57/1980] START leaf\_size=20, n\_neighbors=57..  
 [CV 3/5; 58/1980] END leaf\_size=20, n\_neighbors=58;; score=0.549 total time=0.0s  
 [CV 4/5; 58/1980] START leaf\_size=20, n\_neighbors=58..  
 [CV 2/5; 64/1980] END leaf\_size=20, n\_neighbors=64;; score=0.609 total time=0.0s  
 [CV 3/5; 64/1980] START leaf\_size=20, n\_neighbors=64..  
 [CV 4/5; 49/1980] END leaf\_size=20, n\_neighbors=49;; score=0.593 total time=0.0s  
 [CV 5/5; 55/1980] END leaf\_size=20, n\_neighbors=55;; score=0.608 total time=

0.0s  
 [CV 1/5; 56/1980] START leaf\_size=20, n\_neighbors=56...  
 [CV 3/5; 67/1980] START leaf\_size=20, n\_neighbors=67...  
 [CV 3/5; 54/1980] END leaf\_size=20, n\_neighbors=54;; score=0.562 total time=  
 0.0s  
 [CV 5/5; 59/1980] END leaf\_size=20, n\_neighbors=59;; score=0.610 total time=  
 0.1s  
 [CV 4/5; 61/1980] END leaf\_size=20, n\_neighbors=61;; score=0.604 total time=  
 0.0s  
 [CV 1/5; 60/1980] START leaf\_size=20, n\_neighbors=60...  
 [CV 5/5; 61/1980] START leaf\_size=20, n\_neighbors=61...  
 [CV 1/5; 69/1980] START leaf\_size=20, n\_neighbors=69...  
 [CV 5/5; 65/1980] END leaf\_size=20, n\_neighbors=65;; score=0.621 total time=  
 0.0s  
 [CV 1/5; 66/1980] START leaf\_size=20, n\_neighbors=66...  
 [CV 1/5; 63/1980] END leaf\_size=20, n\_neighbors=63;; score=0.665 total time=  
 0.0s  
 [CV 2/5; 63/1980] START leaf\_size=20, n\_neighbors=63...  
 [CV 3/5; 57/1980] END leaf\_size=20, n\_neighbors=57;; score=0.559 total time=  
 0.0s  
 [CV 4/5; 57/1980] START leaf\_size=20, n\_neighbors=57...  
 [CV 3/5; 64/1980] END leaf\_size=20, n\_neighbors=64;; score=0.562 total time=  
 0.0s  
 [CV 4/5; 64/1980] START leaf\_size=20, n\_neighbors=64...  
 [CV 4/5; 58/1980] END leaf\_size=20, n\_neighbors=58;; score=0.595 total time=  
 0.0s  
 [CV 1/5; 56/1980] END leaf\_size=20, n\_neighbors=56;; score=0.670 total time=  
 0.0s[CV 5/5; 58/1980] START leaf\_size=20,  
 n\_neighbors=58...  
  
 [CV 5/5; 61/1980] END leaf\_size=20, n\_neighbors=61;; score=0.606 total time=  
 0.0s  
 [CV 1/5; 62/1980] START leaf\_size=20, n\_neighbors=62...  
 [CV 4/5; 70/1980] START leaf\_size=20, n\_neighbors=70...  
 [CV 3/5; 67/1980] END leaf\_size=20, n\_neighbors=67;; score=0.564 total time=  
 0.0s  
 [CV 4/5; 67/1980] START leaf\_size=20, n\_neighbors=67...  
 [CV 1/5; 66/1980] END leaf\_size=20, n\_neighbors=66;; score=0.663 total time=  
 0.0s  
 [CV 2/5; 66/1980] START leaf\_size=20, n\_neighbors=66...  
 [CV 1/5; 69/1980] END leaf\_size=20, n\_neighbors=69;; score=0.663 total time=  
 0.0s  
 [CV 2/5; 69/1980] START leaf\_size=20, n\_neighbors=69...  
 [CV 2/5; 63/1980] END leaf\_size=20, n\_neighbors=63;; score=0.609 total time=  
 0.0s  
 [CV 3/5; 63/1980] START leaf\_size=20, n\_neighbors=63...  
 [CV 4/5; 57/1980] END leaf\_size=20, n\_neighbors=57;; score=0.597 total time=  
 0.0s

[CV 1/5; 60/1980] END leaf\_size=20, n\_neighbors=60;; score=0.667 total time=0.0s  
 [CV 2/5; 60/1980] START leaf\_size=20, n\_neighbors=60...  
 [CV 2/5; 72/1980] START leaf\_size=20, n\_neighbors=72...  
 [CV 4/5; 64/1980] END leaf\_size=20, n\_neighbors=64;; score=0.593 total time=0.0s  
 [CV 5/5; 64/1980] START leaf\_size=20, n\_neighbors=64...  
 [CV 1/5; 62/1980] END leaf\_size=20, n\_neighbors=62;; score=0.663 total time=0.0s  
 [CV 2/5; 62/1980] START leaf\_size=20, n\_neighbors=62...  
 [CV 4/5; 70/1980] END leaf\_size=20, n\_neighbors=70;; score=0.589 total time=0.0s  
 [CV 5/5; 70/1980] START leaf\_size=20, n\_neighbors=70...  
 [CV 5/5; 58/1980] END leaf\_size=20, n\_neighbors=58;; score=0.610 total time=0.0s  
 [CV 1/5; 59/1980] START leaf\_size=20, n\_neighbors=59...  
 [CV 2/5; 66/1980] END leaf\_size=20, n\_neighbors=66;; score=0.609 total time=0.0s  
 [CV 3/5; 66/1980] START leaf\_size=20, n\_neighbors=66...  
 [CV 4/5; 67/1980] END leaf\_size=20, n\_neighbors=67;; score=0.587 total time=0.0s  
 [CV 5/5; 67/1980] START leaf\_size=20, n\_neighbors=67...  
 [CV 2/5; 69/1980] END leaf\_size=20, n\_neighbors=69;; score=0.609 total time=0.0s  
 [CV 3/5; 63/1980] END leaf\_size=20, n\_neighbors=63;; score=0.562 total time=0.0s  
 [CV 4/5; 63/1980] START leaf\_size=20, n\_neighbors=63...  
  
 [CV 3/5; 69/1980] START leaf\_size=20, n\_neighbors=69...  
 [CV 5/5; 64/1980] END leaf\_size=20, n\_neighbors=64;; score=0.613 total time=0.0s  
 [CV 1/5; 65/1980] START leaf\_size=20, n\_neighbors=65...  
 [CV 2/5; 72/1980] END leaf\_size=20, n\_neighbors=72;; score=0.607 total time=0.0s  
 [CV 3/5; 72/1980] START leaf\_size=20, n\_neighbors=72...  
 [CV 2/5; 60/1980] END leaf\_size=20, n\_neighbors=60;; score=0.605 total time=0.0s  
 [CV 3/5; 60/1980] START leaf\_size=20, n\_neighbors=60...  
 [CV 2/5; 62/1980] END leaf\_size=20, n\_neighbors=62;; score=0.603 total time=0.0s  
 [CV 3/5; 62/1980] START leaf\_size=20, n\_neighbors=62...  
 [CV 5/5; 70/1980] END leaf\_size=20, n\_neighbors=70;; score=0.606 total time=0.0s  
 [CV 1/5; 71/1980] START leaf\_size=20, n\_neighbors=71...  
 [CV 3/5; 66/1980] END leaf\_size=20, n\_neighbors=66;; score=0.566 total time=0.0s  
 [CV 4/5; 66/1980] START leaf\_size=20, n\_neighbors=66...  
 [CV 5/5; 67/1980] END leaf\_size=20, n\_neighbors=67;; score=0.613 total time=0.0s



[CV 1/5; 68/1980] START leaf\_size=20, n\_neighbors=68..  
 [CV 4/5; 63/1980] END leaf\_size=20, n\_neighbors=63;; score=0.604 total time=0.0s  
 [CV 5/5; 63/1980] START leaf\_size=20, n\_neighbors=63..  
 [CV 1/5; 59/1980] END leaf\_size=20, n\_neighbors=59;; score=0.670 total time=0.0s  
 [CV 2/5; 59/1980] START leaf\_size=20, n\_neighbors=59..  
 [CV 1/5; 65/1980] END leaf\_size=20, n\_neighbors=65;; score=0.663 total time=0.0s  
 [CV 2/5; 65/1980] START leaf\_size=20, n\_neighbors=65..  
 [CV 3/5; 72/1980] END leaf\_size=20, n\_neighbors=72;; score=0.562 total time=0.0s  
 [CV 4/5; 72/1980] START leaf\_size=20, n\_neighbors=72..  
 [CV 3/5; 62/1980] END leaf\_size=20, n\_neighbors=62;; score=0.555 total time=0.0s  
 [CV 3/5; 69/1980] END leaf\_size=20, n\_neighbors=69;; score=0.568 total time=0.0s  
 [CV 4/5; 69/1980] START leaf\_size=20, n\_neighbors=69..  
 [CV 5/5; 73/1980] START leaf\_size=20, n\_neighbors=73..  
 [CV 3/5; 60/1980] END leaf\_size=20, n\_neighbors=60;; score=0.553 total time=0.0s  
 [CV 4/5; 60/1980] START leaf\_size=20, n\_neighbors=60..  
 [CV 4/5; 66/1980] END leaf\_size=20, n\_neighbors=66;; score=0.574 total time=0.0s  
 [CV 5/5; 66/1980] START leaf\_size=20, n\_neighbors=66..  
 [CV 1/5; 71/1980] END leaf\_size=20, n\_neighbors=71;; score=0.670 total time=0.0s  
 [CV 2/5; 71/1980] START leaf\_size=20, n\_neighbors=71..  
 [CV 5/5; 63/1980] END leaf\_size=20, n\_neighbors=63;; score=0.615 total time=0.0s  
 [CV 1/5; 64/1980] START leaf\_size=20, n\_neighbors=64..  
 [CV 2/5; 65/1980] END leaf\_size=20, n\_neighbors=65;; score=0.616 total time=0.0s  
 [CV 3/5; 65/1980] START leaf\_size=20, n\_neighbors=65..  
 [CV 1/5; 68/1980] END leaf\_size=20, n\_neighbors=68;; score=0.667 total time=0.0s  
 [CV 2/5; 68/1980] START leaf\_size=20, n\_neighbors=68..  
 [CV 4/5; 72/1980] END leaf\_size=20, n\_neighbors=72;; score=0.593 total time=0.0s  
 [CV 5/5; 72/1980] START leaf\_size=20,  
 n\_neighbors=72...[CV 5/5; 73/1980] END leaf\_size=20,  
 n\_neighbors=73;; score=0.628 total time= 0.0s  
  
 [CV 1/5; 74/1980] START leaf\_size=20, n\_neighbors=74..  
 [CV 4/5; 69/1980] END leaf\_size=20, n\_neighbors=69;; score=0.582 total time=0.0s  
 [CV 5/5; 69/1980] START leaf\_size=20, n\_neighbors=69..  
 [CV 2/5; 59/1980] END leaf\_size=20, n\_neighbors=59;; score=0.609 total time=

0.0s  
[CV 3/5; 75/1980] START leaf\_size=20, n\_neighbors=75...  
[CV 5/5; 66/1980] END leaf\_size=20, n\_neighbors=66;; score=0.613 total time=  
0.0s  
[CV 1/5; 67/1980] START leaf\_size=20, n\_neighbors=67...  
[CV 2/5; 71/1980] END leaf\_size=20, n\_neighbors=71;; score=0.616 total time=  
0.0s  
[CV 3/5; 71/1980] START leaf\_size=20, n\_neighbors=71...  
[CV 4/5; 60/1980] END leaf\_size=20, n\_neighbors=60;; score=0.602 total time=  
0.0s  
[CV 5/5; 60/1980] START leaf\_size=20, n\_neighbors=60...  
[CV 1/5; 64/1980] END leaf\_size=20, n\_neighbors=64;; score=0.663 total time=  
0.0s  
[CV 3/5; 65/1980] END leaf\_size=20, n\_neighbors=65;; score=0.566 total time=  
0.0s  
[CV 4/5; 65/1980] START leaf\_size=20, n\_neighbors=65...  
[CV 1/5; 74/1980] END leaf\_size=20, n\_neighbors=74;; score=0.661 total time=  
0.0s  
[CV 2/5; 74/1980] START leaf\_size=20, n\_neighbors=74...  
[CV 5/5; 72/1980] END leaf\_size=20, n\_neighbors=72;; score=0.613 total time=  
0.0s  
[CV 1/5; 73/1980] START leaf\_size=20, n\_neighbors=73...  
[CV 2/5; 68/1980] END leaf\_size=20, n\_neighbors=68;; score=0.609 total time=  
0.0s  
[CV 3/5; 68/1980] START leaf\_size=20, n\_neighbors=68...  
[CV 1/5; 77/1980] START leaf\_size=20, n\_neighbors=77...  
[CV 5/5; 69/1980] END leaf\_size=20, n\_neighbors=69;; score=0.621 total time=  
0.0s  
[CV 1/5; 70/1980] START leaf\_size=20, n\_neighbors=70...  
[CV 1/5; 67/1980] END leaf\_size=20, n\_neighbors=67;; score=0.663 total time=  
0.0s  
[CV 2/5; 67/1980] START leaf\_size=20, n\_neighbors=67...  
[CV 3/5; 71/1980] END leaf\_size=20, n\_neighbors=71;; score=0.562 total time=  
0.0s  
[CV 4/5; 71/1980] START leaf\_size=20, n\_neighbors=71...  
[CV 3/5; 75/1980] END leaf\_size=20, n\_neighbors=75;; score=0.555 total time=  
0.0s  
[CV 4/5; 75/1980] START leaf\_size=20, n\_neighbors=75...  
[CV 4/5; 65/1980] END leaf\_size=20, n\_neighbors=65;; score=0.591 total time=  
0.0s  
[CV 5/5; 60/1980] END leaf\_size=20, n\_neighbors=60;; score=0.604 total time=  
0.0s  
[CV 4/5; 78/1980] START leaf\_size=20, n\_neighbors=78...  
[CV 2/5; 80/1980] START leaf\_size=20, n\_neighbors=80...  
[CV 2/5; 74/1980] END leaf\_size=20, n\_neighbors=74;; score=0.607 total time=  
0.0s  
[CV 3/5; 74/1980] START leaf\_size=20, n\_neighbors=74...  
[CV 1/5; 73/1980] END leaf\_size=20, n\_neighbors=73;; score=0.663 total time=

0.0s  
 [CV 2/5; 73/1980] START leaf\_size=20, n\_neighbors=73...  
 [CV 1/5; 77/1980] END leaf\_size=20, n\_neighbors=77;, score=0.667 total time=  
 0.0s  
 [CV 2/5; 77/1980] START leaf\_size=20, n\_neighbors=77...  
 [CV 3/5; 68/1980] END leaf\_size=20, n\_neighbors=68;, score=0.566 total time=  
 0.0s  
 [CV 4/5; 68/1980] START leaf\_size=20, n\_neighbors=68...  
 [CV 2/5; 67/1980] END leaf\_size=20, n\_neighbors=67;, score=0.611 total time=  
 0.0s  
 [CV 1/5; 70/1980] END leaf\_size=20, n\_neighbors=70;, score=0.663 total time=  
 0.0s  
 [CV 2/5; 70/1980] START leaf\_size=20, n\_neighbors=70...  
 [CV 5/5; 81/1980] START leaf\_size=20, n\_neighbors=81...  
 [CV 4/5; 71/1980] END leaf\_size=20, n\_neighbors=71;, score=0.587 total time=  
 0.0s  
 [CV 5/5; 71/1980] START leaf\_size=20, n\_neighbors=71...  
 [CV 4/5; 75/1980] END leaf\_size=20, n\_neighbors=75;, score=0.591 total time=  
 0.0s  
 [CV 5/5; 75/1980] START leaf\_size=20, n\_neighbors=75...  
 [CV 2/5; 80/1980] END leaf\_size=20, n\_neighbors=80;, score=0.594 total time=  
 0.0s  
 [CV 3/5; 80/1980] START leaf\_size=20, n\_neighbors=80...  
 [CV 3/5; 74/1980] END leaf\_size=20, n\_neighbors=74;, score=0.557 total time=  
 0.0s  
 [CV 4/5; 74/1980] START leaf\_size=20, n\_neighbors=74...  
 [CV 4/5; 78/1980] END leaf\_size=20, n\_neighbors=78;, score=0.571 total time=  
 0.0s  
 [CV 5/5; 78/1980] START leaf\_size=20, n\_neighbors=78...  
 [CV 2/5; 73/1980] END leaf\_size=20, n\_neighbors=73;, score=0.605 total time=  
 0.0s  
 [CV 3/5; 73/1980] START leaf\_size=20, n\_neighbors=73...  
 [CV 5/5; 71/1980] END leaf\_size=20, n\_neighbors=71;, score=0.613 total time=  
 0.0s  
 [CV 5/5; 81/1980] END leaf\_size=20, n\_neighbors=81;, score=0.626 total time=  
 0.0s  
 [CV 1/5; 82/1980] START leaf\_size=20,  
 n\_neighbors=82...[CV 1/5; 72/1980] START leaf\_size=20,  
 n\_neighbors=72...  
  
 [CV 2/5; 77/1980] END leaf\_size=20, n\_neighbors=77;, score=0.605 total time=  
 0.0s  
 [CV 3/5; 77/1980] START leaf\_size=20, n\_neighbors=77...  
 [CV 4/5; 68/1980] END leaf\_size=20, n\_neighbors=68;, score=0.576 total time=  
 0.0s  
 [CV 5/5; 68/1980] START leaf\_size=20, n\_neighbors=68...  
 [CV 2/5; 70/1980] END leaf\_size=20, n\_neighbors=70;, score=0.607 total time=  
 0.0s

[CV 3/5; 70/1980] START leaf\_size=20, n\_neighbors=70...  
 [CV 5/5; 75/1980] END leaf\_size=20, n\_neighbors=75;; score=0.632 total time=0.0s  
 [CV 1/5; 76/1980] START leaf\_size=20, n\_neighbors=76...  
 [CV 3/5; 80/1980] END leaf\_size=20, n\_neighbors=80;; score=0.564 total time=0.0s  
 [CV 4/5; 80/1980] START leaf\_size=20, n\_neighbors=80...  
 [CV 4/5; 74/1980] END leaf\_size=20, n\_neighbors=74;; score=0.591 total time=0.0s  
 [CV 5/5; 74/1980] START leaf\_size=20, n\_neighbors=74...  
 [CV 5/5; 78/1980] END leaf\_size=20, n\_neighbors=78;; score=0.628 total time=0.0s  
 [CV 1/5; 79/1980] START leaf\_size=20, n\_neighbors=79...  
 [CV 3/5; 73/1980] END leaf\_size=20, n\_neighbors=73;; score=0.566 total time=0.0s  
 [CV 4/5; 73/1980] START leaf\_size=20,  
 n\_neighbors=73...[CV 1/5; 72/1980] END leaf\_size=20,  
 n\_neighbors=72;; score=0.663 total time= 0.0s  
  
 [CV 1/5; 82/1980] END leaf\_size=20, n\_neighbors=82;; score=0.659 total time=0.0s  
 [CV 2/5; 82/1980] START leaf\_size=20, n\_neighbors=82...  
 [CV 3/5; 83/1980] START leaf\_size=20, n\_neighbors=83...  
 [CV 5/5; 68/1980] END leaf\_size=20, n\_neighbors=68;; score=0.615 total time=0.0s  
 [CV 3/5; 77/1980] END leaf\_size=20, n\_neighbors=77;; score=0.562 total time=0.0s  
 [CV 4/5; 77/1980] START leaf\_size=20, n\_neighbors=77...  
 [CV 3/5; 70/1980] END leaf\_size=20, n\_neighbors=70;; score=0.559 total time=0.0s  
 [CV 1/5; 85/1980] START leaf\_size=20, n\_neighbors=85...  
 [CV 4/5; 86/1980] START leaf\_size=20, n\_neighbors=86...  
 [CV 5/5; 74/1980] END leaf\_size=20, n\_neighbors=74;; score=0.623 total time=0.0s  
 [CV 1/5; 75/1980] START leaf\_size=20, n\_neighbors=75...  
 [CV 1/5; 76/1980] END leaf\_size=20, n\_neighbors=76;; score=0.667 total time=0.0s  
 [CV 2/5; 76/1980] START leaf\_size=20, n\_neighbors=76...  
 [CV 4/5; 80/1980] END leaf\_size=20, n\_neighbors=80;; score=0.584 total time=0.0s  
 [CV 5/5; 80/1980] START leaf\_size=20, n\_neighbors=80...  
 [CV 4/5; 73/1980] END leaf\_size=20, n\_neighbors=73;; score=0.591 total time=0.0s  
 [CV 2/5; 88/1980] START leaf\_size=20, n\_neighbors=88...  
 [CV 2/5; 82/1980] END leaf\_size=20, n\_neighbors=82;; score=0.600 total time=0.0s  
 [CV 3/5; 82/1980] START leaf\_size=20, n\_neighbors=82...  
 [CV 4/5; 77/1980] END leaf\_size=20, n\_neighbors=77;; score=0.580 total time=

0.0s  
 [CV 5/5; 77/1980] START leaf\_size=20, n\_neighbors=77...  
 [CV 3/5; 83/1980] END leaf\_size=20, n\_neighbors=83;, score=0.564 total time=  
 0.0s  
 [CV 4/5; 83/1980] START leaf\_size=20, n\_neighbors=83...  
 [CV 1/5; 79/1980] END leaf\_size=20, n\_neighbors=79;, score=0.659 total time=  
 0.0s  
 [CV 2/5; 79/1980] START leaf\_size=20, n\_neighbors=79...  
 [CV 1/5; 75/1980] END leaf\_size=20, n\_neighbors=75;, score=0.667 total time=  
 0.0s  
 [CV 2/5; 75/1980] START leaf\_size=20, n\_neighbors=75...  
 [CV 4/5; 86/1980] END leaf\_size=20, n\_neighbors=86;, score=0.580 total time=  
 0.0s  
 [CV 5/5; 86/1980] START leaf\_size=20, n\_neighbors=86...  
 [CV 1/5; 85/1980] END leaf\_size=20, n\_neighbors=85;, score=0.650 total time=  
 0.0s  
 [CV 2/5; 85/1980] START leaf\_size=20, n\_neighbors=85...  
 [CV 5/5; 80/1980] END leaf\_size=20, n\_neighbors=80;, score=0.628 total time=  
 0.0s  
 [CV 1/5; 81/1980] START leaf\_size=20, n\_neighbors=81...  
 [CV 2/5; 76/1980] END leaf\_size=20, n\_neighbors=76;, score=0.603 total time=  
 0.0s  
 [CV 3/5; 76/1980] START leaf\_size=20, n\_neighbors=76...  
 [CV 2/5; 88/1980] END leaf\_size=20, n\_neighbors=88;, score=0.600 total time=  
 0.0s  
 [CV 3/5; 88/1980] START leaf\_size=20, n\_neighbors=88...  
 [CV 3/5; 82/1980] END leaf\_size=20, n\_neighbors=82;, score=0.566 total time=  
 0.0s  
 [CV 5/5; 77/1980] END leaf\_size=20, n\_neighbors=77;, score=0.617 total time=  
 0.0s  
 [CV 4/5; 82/1980] START leaf\_size=20, n\_neighbors=82...  
 [CV 1/5; 78/1980] START leaf\_size=20, n\_neighbors=78...  
 [CV 4/5; 83/1980] END leaf\_size=20, n\_neighbors=83;, score=0.584 total time=  
 0.0s  
 [CV 5/5; 83/1980] START leaf\_size=20, n\_neighbors=83...  
 [CV 2/5; 75/1980] END leaf\_size=20, n\_neighbors=75;, score=0.603 total time=  
 0.0s  
 [CV 5/5; 89/1980] START leaf\_size=20, n\_neighbors=89...  
 [CV 5/5; 86/1980] END leaf\_size=20, n\_neighbors=86;, score=0.623 total time=  
 0.0s  
 [CV 1/5; 87/1980] START leaf\_size=20, n\_neighbors=87...  
 [CV 2/5; 79/1980] END leaf\_size=20, n\_neighbors=79;, score=0.598 total time=  
 0.0s  
 [CV 3/5; 79/1980] START leaf\_size=20, n\_neighbors=79...  
 [CV 1/5; 81/1980] END leaf\_size=20, n\_neighbors=81;, score=0.659 total time=  
 0.0s  
 [CV 2/5; 81/1980] START leaf\_size=20, n\_neighbors=81...  
 [CV 2/5; 85/1980] END leaf\_size=20, n\_neighbors=85;, score=0.600 total time=

0.0s  
[CV 3/5; 85/1980] START leaf\_size=20, n\_neighbors=85...  
[CV 3/5; 88/1980] END leaf\_size=20, n\_neighbors=88;; score=0.562 total time=  
0.0s  
[CV 4/5; 88/1980] START leaf\_size=20, n\_neighbors=88...  
[CV 4/5; 82/1980] END leaf\_size=20, n\_neighbors=82;; score=0.587 total time=  
0.0s  
[CV 5/5; 82/1980] START leaf\_size=20, n\_neighbors=82...  
[CV 1/5; 78/1980] END leaf\_size=20, n\_neighbors=78;; score=0.659 total time=  
0.0s  
[CV 2/5; 78/1980] START leaf\_size=20, n\_neighbors=78...  
[CV 3/5; 76/1980] END leaf\_size=20, n\_neighbors=76;; score=0.557 total time=  
0.0s  
[CV 4/5; 76/1980] START leaf\_size=20, n\_neighbors=76...  
[CV 5/5; 83/1980] END leaf\_size=20, n\_neighbors=83;; score=0.619 total time=  
0.0s  
[CV 1/5; 84/1980] START leaf\_size=20, n\_neighbors=84...  
[CV 5/5; 89/1980] END leaf\_size=20, n\_neighbors=89;; score=0.621 total time=  
0.0s  
[CV 1/5; 90/1980] START leaf\_size=20, n\_neighbors=90...  
[CV 1/5; 87/1980] END leaf\_size=20, n\_neighbors=87;; score=0.650 total time=  
0.0s  
[CV 2/5; 87/1980] START leaf\_size=20, n\_neighbors=87...  
[CV 3/5; 79/1980] END leaf\_size=20, n\_neighbors=79;; score=0.557 total time=  
0.0s  
[CV 4/5; 79/1980] START leaf\_size=20, n\_neighbors=79...  
[CV 2/5; 81/1980] END leaf\_size=20, n\_neighbors=81;; score=0.596 total time=  
0.0s  
[CV 3/5; 81/1980] START leaf\_size=20, n\_neighbors=81...  
[CV 3/5; 85/1980] END leaf\_size=20, n\_neighbors=85;; score=0.557 total time=  
0.0s  
[CV 4/5; 85/1980] START leaf\_size=20, n\_neighbors=85...  
[CV 5/5; 82/1980] END leaf\_size=20, n\_neighbors=82;; score=0.630 total time=  
0.0s  
[CV 1/5; 83/1980] START leaf\_size=20, n\_neighbors=83...  
[CV 4/5; 88/1980] END leaf\_size=20, n\_neighbors=88;; score=0.578 total time=  
0.0s  
[CV 5/5; 88/1980] START leaf\_size=20, n\_neighbors=88...  
[CV 2/5; 78/1980] END leaf\_size=20, n\_neighbors=78;; score=0.603 total time=  
0.0s  
[CV 3/5; 78/1980] START leaf\_size=20, n\_neighbors=78...  
[CV 1/5; 90/1980] END leaf\_size=20, n\_neighbors=90;; score=0.650 total time=  
0.0s  
[CV 2/5; 90/1980] START leaf\_size=20, n\_neighbors=90...  
[CV 4/5; 76/1980] END leaf\_size=20, n\_neighbors=76;; score=0.578 total time=  
0.0s  
[CV 5/5; 76/1980] START leaf\_size=20, n\_neighbors=76...  
[CV 1/5; 84/1980] END leaf\_size=20, n\_neighbors=84;; score=0.654 total time=

0.0s  
[CV 2/5; 84/1980] START leaf\_size=20, n\_neighbors=84...  
[CV 2/5; 87/1980] END leaf\_size=20, n\_neighbors=87;; score=0.603 total time=  
0.0s  
[CV 3/5; 87/1980] START leaf\_size=20, n\_neighbors=87...  
[CV 3/5; 81/1980] END leaf\_size=20, n\_neighbors=81;; score=0.562 total time=  
0.0s  
[CV 4/5; 81/1980] START leaf\_size=20, n\_neighbors=81...  
[CV 4/5; 79/1980] END leaf\_size=20, n\_neighbors=79;; score=0.584 total time=  
0.0s  
[CV 5/5; 79/1980] START leaf\_size=20, n\_neighbors=79...  
[CV 1/5; 83/1980] END leaf\_size=20, n\_neighbors=83;; score=0.650 total time=  
0.0s  
[CV 2/5; 83/1980] START leaf\_size=20, n\_neighbors=83...  
[CV 3/5; 78/1980] END leaf\_size=20, n\_neighbors=78;; score=0.555 total time=  
0.0s  
[CV 4/5; 85/1980] END leaf\_size=20, n\_neighbors=85;; score=0.576 total time=  
0.0s  
[CV 5/5; 85/1980] START leaf\_size=20, n\_neighbors=85...  
[CV 3/5; 91/1980] START leaf\_size=20, n\_neighbors=91...  
[CV 5/5; 88/1980] END leaf\_size=20, n\_neighbors=88;; score=0.617 total time=  
0.0s  
[CV 1/5; 89/1980] START leaf\_size=20, n\_neighbors=89...  
[CV 2/5; 90/1980] END leaf\_size=20, n\_neighbors=90;; score=0.600 total time=  
0.0s  
[CV 3/5; 90/1980] START leaf\_size=20, n\_neighbors=90...  
[CV 3/5; 87/1980] END leaf\_size=20, n\_neighbors=87;; score=0.562 total time=  
0.0s  
[CV 4/5; 87/1980] START leaf\_size=20, n\_neighbors=87...  
[CV 4/5; 81/1980] END leaf\_size=20, n\_neighbors=81;; score=0.587 total time=  
0.0s  
[CV 2/5; 84/1980] END leaf\_size=20, n\_neighbors=84;; score=0.603 total time=  
0.0s  
[CV 3/5; 84/1980] START leaf\_size=20, n\_neighbors=84...  
[CV 5/5; 76/1980] END leaf\_size=20, n\_neighbors=76;; score=0.621 total time=  
0.0s  
[CV 1/5; 93/1980] START leaf\_size=20, n\_neighbors=93...  
[CV 4/5; 94/1980] START leaf\_size=20, n\_neighbors=94...  
[CV 5/5; 79/1980] END leaf\_size=20, n\_neighbors=79;; score=0.619 total time=  
0.0s  
[CV 1/5; 80/1980] START leaf\_size=20, n\_neighbors=80...  
[CV 2/5; 83/1980] END leaf\_size=20, n\_neighbors=83;; score=0.596 total time=  
0.0s  
[CV 3/5; 91/1980] END leaf\_size=20, n\_neighbors=91;; score=0.564 total time=  
0.0s  
[CV 4/5; 91/1980] START leaf\_size=20, n\_neighbors=91...  
[CV 2/5; 96/1980] START leaf\_size=20, n\_neighbors=96...  
[CV 1/5; 89/1980] END leaf\_size=20, n\_neighbors=89;; score=0.646 total time=

0.0s[CV 3/5; 90/1980] END leaf\_size=20, n\_neighbors=90;; score=0.564 total time=0.0s

[CV 4/5; 90/1980] START leaf\_size=20, n\_neighbors=90...

[CV 2/5; 89/1980] START leaf\_size=20, n\_neighbors=89...

[CV 5/5; 85/1980] END leaf\_size=20, n\_neighbors=85;; score=0.626 total time=0.0s

[CV 1/5; 86/1980] START leaf\_size=20, n\_neighbors=86...

[CV 4/5; 87/1980] END leaf\_size=20, n\_neighbors=87;; score=0.584 total time=0.0s

[CV 5/5; 87/1980] START leaf\_size=20, n\_neighbors=87...

[CV 3/5; 84/1980] END leaf\_size=20, n\_neighbors=84;; score=0.555 total time=0.0s

[CV 4/5; 84/1980] START leaf\_size=20, n\_neighbors=84...

[CV 1/5; 93/1980] END leaf\_size=20, n\_neighbors=93;; score=0.646 total time=0.0s

[CV 2/5; 93/1980] START leaf\_size=20, n\_neighbors=93...

[CV 4/5; 94/1980] END leaf\_size=20, n\_neighbors=94;; score=0.582 total time=0.0s

[CV 5/5; 94/1980] START leaf\_size=20, n\_neighbors=94...

[CV 4/5; 91/1980] END leaf\_size=20, n\_neighbors=91;; score=0.591 total time=0.0s

[CV 5/5; 91/1980] START leaf\_size=20, n\_neighbors=91...

[CV 4/5; 90/1980] END leaf\_size=20, n\_neighbors=90;; score=0.580 total time=0.0s

[CV 5/5; 90/1980] START leaf\_size=20, n\_neighbors=90...

[CV 2/5; 96/1980] END leaf\_size=20, n\_neighbors=96;; score=0.598 total time=0.0s

[CV 3/5; 96/1980] START leaf\_size=20, n\_neighbors=96...

[CV 1/5; 80/1980] END leaf\_size=20, n\_neighbors=80;; score=0.659 total time=0.0s

[CV 2/5; 89/1980] END leaf\_size=20, n\_neighbors=89;; score=0.600 total time=0.0s

[CV 3/5; 89/1980] START leaf\_size=20, n\_neighbors=89...

[CV 5/5; 97/1980] START leaf\_size=20, n\_neighbors=97...

[CV 1/5; 86/1980] END leaf\_size=20, n\_neighbors=86;; score=0.648 total time=0.0s

[CV 2/5; 86/1980] START leaf\_size=20, n\_neighbors=86...

[CV 5/5; 87/1980] END leaf\_size=20, n\_neighbors=87;; score=0.619 total time=0.0s

[CV 1/5; 88/1980] START leaf\_size=20, n\_neighbors=88...

[CV 4/5; 84/1980] END leaf\_size=20, n\_neighbors=84;; score=0.582 total time=0.0s

[CV 5/5; 84/1980] START leaf\_size=20, n\_neighbors=84...

[CV 5/5; 94/1980] END leaf\_size=20, n\_neighbors=94;; score=0.608 total time=0.0s

[CV 1/5; 95/1980] START leaf\_size=20, n\_neighbors=95...

[CV 5/5; 90/1980] END leaf\_size=20, n\_neighbors=90;; score=0.617 total time=



0.0s  
[CV 1/5; 91/1980] START leaf\_size=20, n\_neighbors=91...  
[CV 2/5; 93/1980] END leaf\_size=20, n\_neighbors=93;; score=0.603 total time=  
0.0s  
[CV 3/5; 93/1980] START leaf\_size=20, n\_neighbors=93...  
[CV 5/5; 91/1980] END leaf\_size=20, n\_neighbors=91;; score=0.623 total time=  
0.0s  
[CV 1/5; 92/1980] START leaf\_size=20, n\_neighbors=92...  
[CV 3/5; 96/1980] END leaf\_size=20, n\_neighbors=96;; score=0.564 total time=  
0.0s  
[CV 4/5; 96/1980] START leaf\_size=20, n\_neighbors=96...  
[CV 3/5; 89/1980] END leaf\_size=20, n\_neighbors=89;; score=0.564 total time=  
0.0s  
[CV 4/5; 89/1980] START leaf\_size=20, n\_neighbors=89...  
[CV 1/5; 88/1980] END leaf\_size=20, n\_neighbors=88;; score=0.652 total time=  
0.0s  
[CV 2/5; 86/1980] END leaf\_size=20, n\_neighbors=86;; score=0.598 total time=  
0.0s  
[CV 3/5; 86/1980] START leaf\_size=20, n\_neighbors=86...  
[CV 3/5; 99/1980] START leaf\_size=20, n\_neighbors=99...  
[CV 5/5; 97/1980] END leaf\_size=20, n\_neighbors=97;; score=0.602 total time=  
0.0s  
[CV 1/5; 98/1980] START leaf\_size=20, n\_neighbors=98...  
[CV 5/5; 84/1980] END leaf\_size=20, n\_neighbors=84;; score=0.626 total time=  
0.0s  
[CV 1/5; 95/1980] END leaf\_size=20, n\_neighbors=95;; score=0.644 total time=  
0.0s  
[CV 2/5; 95/1980] START leaf\_size=20, n\_neighbors=95...  
[CV 1/5; 101/1980] START leaf\_size=21, n\_neighbors=2...  
[CV 1/5; 91/1980] END leaf\_size=20, n\_neighbors=91;; score=0.648 total time=  
0.0s  
[CV 2/5; 91/1980] START leaf\_size=20, n\_neighbors=91...  
[CV 4/5; 96/1980] END leaf\_size=20, n\_neighbors=96;; score=0.582 total time=  
0.0s  
[CV 5/5; 96/1980] START leaf\_size=20, n\_neighbors=96...  
[CV 4/5; 89/1980] END leaf\_size=20, n\_neighbors=89;; score=0.591 total time=  
0.0s  
[CV 1/5; 92/1980] END leaf\_size=20, n\_neighbors=92;; score=0.646 total time=  
0.0s[CV 3/5; 93/1980] END leaf\_size=20, n\_neighbors=93;; score=0.564 total time=  
0.0s  
  
[CV 4/5; 93/1980] START leaf\_size=20,  
n\_neighbors=93...[CV 2/5; 92/1980] START leaf\_size=20,  
n\_neighbors=92...  
  
[CV 4/5; 102/1980] START leaf\_size=21, n\_neighbors=3...  
[CV 1/5; 101/1980] END leaf\_size=21, n\_neighbors=2;; score=0.566 total time=  
0.0s

[CV 2/5; 101/1980] START leaf\_size=21, n\_neighbors=2...  
 [CV 3/5; 99/1980] END leaf\_size=20, n\_neighbors=99;; score=0.566 total time=0.0s  
 [CV 4/5; 99/1980] START leaf\_size=20, n\_neighbors=99...  
 [CV 3/5; 86/1980] END leaf\_size=20, n\_neighbors=86;; score=0.559 total time=0.0s  
 [CV 2/5; 104/1980] START leaf\_size=21, n\_neighbors=5...  
 [CV 1/5; 98/1980] END leaf\_size=20, n\_neighbors=98;; score=0.635 total time=0.0s  
 [CV 2/5; 98/1980] START leaf\_size=20, n\_neighbors=98...  
 [CV 2/5; 95/1980] END leaf\_size=20, n\_neighbors=95;; score=0.603 total time=0.0s  
 [CV 3/5; 95/1980] START leaf\_size=20, n\_neighbors=95...  
 [CV 4/5; 102/1980] END leaf\_size=21, n\_neighbors=3;; score=0.584 total time=0.0s  
 [CV 5/5; 102/1980] START leaf\_size=21, n\_neighbors=3...  
 [CV 2/5; 91/1980] END leaf\_size=20, n\_neighbors=91;; score=0.605 total time=0.0s  
 [CV 2/5; 101/1980] END leaf\_size=21, n\_neighbors=2;; score=0.579 total time=0.0s  
 [CV 3/5; 101/1980] START leaf\_size=21, n\_neighbors=2...  
 [CV 5/5; 105/1980] START leaf\_size=21, n\_neighbors=6...  
 [CV 5/5; 96/1980] END leaf\_size=20, n\_neighbors=96;; score=0.604 total time=0.0s  
 [CV 1/5; 97/1980] START leaf\_size=20, n\_neighbors=97...  
 [CV 2/5; 92/1980] END leaf\_size=20, n\_neighbors=92;; score=0.598 total time=0.0s  
 [CV 3/5; 92/1980] START leaf\_size=20, n\_neighbors=92...  
 [CV 4/5; 93/1980] END leaf\_size=20, n\_neighbors=93;; score=0.587 total time=0.0s  
 [CV 5/5; 93/1980] START leaf\_size=20, n\_neighbors=93...  
 [CV 2/5; 104/1980] END leaf\_size=21, n\_neighbors=5;; score=0.562 total time=0.0s  
 [CV 3/5; 104/1980] START leaf\_size=21, n\_neighbors=5...  
 [CV 5/5; 102/1980] END leaf\_size=21, n\_neighbors=3;; score=0.593 total time=0.0s  
 [CV 1/5; 103/1980] START leaf\_size=21, n\_neighbors=4...  
 [CV 4/5; 99/1980] END leaf\_size=20, n\_neighbors=99;; score=0.589 total time=0.0s  
 [CV 5/5; 99/1980] START leaf\_size=20, n\_neighbors=99...  
 [CV 5/5; 105/1980] END leaf\_size=21, n\_neighbors=6;; score=0.582 total time=0.0s  
 [CV 1/5; 106/1980] START leaf\_size=21, n\_neighbors=7...  
 [CV 3/5; 101/1980] END leaf\_size=21, n\_neighbors=2;; score=0.512 total time=0.0s  
 [CV 4/5; 101/1980] START leaf\_size=21, n\_neighbors=2...  
 [CV 3/5; 95/1980] END leaf\_size=20, n\_neighbors=95;; score=0.566 total time=0.0s

[CV 4/5; 95/1980] START leaf\_size=20, n\_neighbors=95...  
 [CV 2/5; 98/1980] END leaf\_size=20, n\_neighbors=98;; score=0.596 total time=0.0s  
 [CV 3/5; 98/1980] START leaf\_size=20, n\_neighbors=98...  
 [CV 1/5; 97/1980] END leaf\_size=20, n\_neighbors=97;; score=0.641 total time=0.0s  
 [CV 2/5; 97/1980] START leaf\_size=20, n\_neighbors=97...  
 [CV 1/5; 106/1980] END leaf\_size=21, n\_neighbors=7;; score=0.568 total time=0.0s  
 [CV 2/5; 106/1980] START leaf\_size=21, n\_neighbors=7...  
 [CV 3/5; 104/1980] END leaf\_size=21, n\_neighbors=5;; score=0.536 total time=0.0s  
 [CV 4/5; 104/1980] START leaf\_size=21, n\_neighbors=5...  
 [CV 4/5; 101/1980] END leaf\_size=21, n\_neighbors=2;; score=0.571 total time=0.0s  
 [CV 5/5; 101/1980] START leaf\_size=21, n\_neighbors=2...  
 [CV 3/5; 92/1980] END leaf\_size=20, n\_neighbors=92;; score=0.564 total time=0.0s  
 [CV 4/5; 92/1980] START leaf\_size=20, n\_neighbors=92...  
 [CV 1/5; 103/1980] END leaf\_size=21, n\_neighbors=4;; score=0.562 total time=0.0s  
 [CV 2/5; 103/1980] START leaf\_size=21, n\_neighbors=4...  
 [CV 5/5; 93/1980] END leaf\_size=20, n\_neighbors=93;; score=0.617 total time=0.0s  
 [CV 1/5; 94/1980] START leaf\_size=20, n\_neighbors=94...  
 [CV 5/5; 99/1980] END leaf\_size=20, n\_neighbors=99;; score=0.610 total time=0.0s  
 [CV 1/5; 100/1980] START leaf\_size=21, n\_neighbors=1...  
 [CV 4/5; 95/1980] END leaf\_size=20, n\_neighbors=95;; score=0.584 total time=0.0s  
 [CV 5/5; 95/1980] START leaf\_size=20, n\_neighbors=95...  
 [CV 2/5; 106/1980] END leaf\_size=21, n\_neighbors=7;; score=0.559 total time=0.0s  
 [CV 3/5; 106/1980] START leaf\_size=21,  
 n\_neighbors=7...[CV 5/5; 101/1980] END leaf\_size=21,  
 n\_neighbors=2;; score=0.574 total time= 0.0s  
  
 [CV 1/5; 102/1980] START leaf\_size=21, n\_neighbors=3...  
 [CV 2/5; 103/1980] END leaf\_size=21, n\_neighbors=4;; score=0.581 total time=0.0s  
 [CV 3/5; 103/1980] START leaf\_size=21, n\_neighbors=4...  
 [CV 4/5; 104/1980] END leaf\_size=21, n\_neighbors=5;; score=0.589 total time=0.0s  
 [CV 5/5; 104/1980] START leaf\_size=21, n\_neighbors=5...  
 [CV 1/5; 100/1980] END leaf\_size=21, n\_neighbors=1;; score=0.516 total time=0.0s  
 [CV 2/5; 100/1980] START leaf\_size=21, n\_neighbors=1...  
 [CV 2/5; 97/1980] END leaf\_size=20, n\_neighbors=97;; score=0.594 total time=

0.0s  
 [CV 3/5; 97/1980] START leaf\_size=20, n\_neighbors=97...  
 [CV 4/5; 92/1980] END leaf\_size=20, n\_neighbors=92;; score=0.582 total time=  
 0.0s  
 [CV 5/5; 92/1980] START leaf\_size=20, n\_neighbors=92...  
 [CV 3/5; 98/1980] END leaf\_size=20, n\_neighbors=98;; score=0.562 total time=  
 0.0s  
 [CV 4/5; 98/1980] START leaf\_size=20, n\_neighbors=98...  
 [CV 3/5; 106/1980] END leaf\_size=21, n\_neighbors=7;; score=0.551 total time=  
 0.0s  
 [CV 4/5; 106/1980] START leaf\_size=21, n\_neighbors=7...  
 [CV 1/5; 102/1980] END leaf\_size=21, n\_neighbors=3;; score=0.557 total time=  
 0.0s  
 [CV 2/5; 102/1980] START leaf\_size=21, n\_neighbors=3...  
 [CV 3/5; 103/1980] END leaf\_size=21, n\_neighbors=4;; score=0.544 total time=  
 0.0s  
 [CV 2/5; 100/1980] END leaf\_size=21, n\_neighbors=1;; score=0.568 total time=  
 0.0s  
 [CV 4/5; 103/1980] START leaf\_size=21, n\_neighbors=4...  
 [CV 3/5; 100/1980] START leaf\_size=21, n\_neighbors=1...  
 [CV 1/5; 94/1980] END leaf\_size=20, n\_neighbors=94;; score=0.644 total time=  
 0.0s  
 [CV 2/5; 94/1980] START leaf\_size=20, n\_neighbors=94...  
 [CV 5/5; 104/1980] END leaf\_size=21, n\_neighbors=5;; score=0.591 total time=  
 0.0s  
 [CV 1/5; 105/1980] START leaf\_size=21, n\_neighbors=6...  
 [CV 5/5; 95/1980] END leaf\_size=20, n\_neighbors=95;; score=0.608 total time=  
 0.0s  
 [CV 1/5; 96/1980] START leaf\_size=20, n\_neighbors=96...  
 [CV 4/5; 106/1980] END leaf\_size=21, n\_neighbors=7;; score=0.584 total time=  
 0.0s  
 [CV 5/5; 106/1980] START leaf\_size=21, n\_neighbors=7...  
 [CV 3/5; 100/1980] END leaf\_size=21, n\_neighbors=1;; score=0.490 total time=  
 0.0s  
 [CV 4/5; 100/1980] START leaf\_size=21, n\_neighbors=1...  
 [CV 3/5; 97/1980] END leaf\_size=20, n\_neighbors=97;; score=0.564 total time=  
 0.0s  
 [CV 4/5; 97/1980] START leaf\_size=20, n\_neighbors=97...  
 [CV 2/5; 102/1980] END leaf\_size=21, n\_neighbors=3;; score=0.579 total time=  
 0.0s  
 [CV 3/5; 102/1980] START leaf\_size=21, n\_neighbors=3...  
 [CV 4/5; 103/1980] END leaf\_size=21, n\_neighbors=4;; score=0.580 total time=  
 0.0s  
 [CV 5/5; 103/1980] START leaf\_size=21, n\_neighbors=4...  
 [CV 5/5; 92/1980] END leaf\_size=20, n\_neighbors=92;; score=0.621 total time=  
 0.0s  
 [CV 3/5; 107/1980] START leaf\_size=21, n\_neighbors=8...  
 [CV 1/5; 105/1980] END leaf\_size=21, n\_neighbors=6;; score=0.570 total time=

0.0s  
 [CV 2/5; 105/1980] START leaf\_size=21, n\_neighbors=6...  
 [CV 5/5; 106/1980] END leaf\_size=21, n\_neighbors=7;; score=0.613 total time=  
 0.0s  
 [CV 1/5; 107/1980] START leaf\_size=21, n\_neighbors=8...  
 [CV 4/5; 98/1980] END leaf\_size=20, n\_neighbors=98;; score=0.584 total time=  
 0.0s  
 [CV 5/5; 98/1980] START leaf\_size=20, n\_neighbors=98...  
 [CV 4/5; 100/1980] END leaf\_size=21, n\_neighbors=1;; score=0.539 total time=  
 0.0s  
 [CV 5/5; 100/1980] START leaf\_size=21, n\_neighbors=1...  
 [CV 3/5; 102/1980] END leaf\_size=21, n\_neighbors=3;; score=0.484 total time=  
 0.0s [CV 5/5; 103/1980] END leaf\_size=21, n\_neighbors=4;; score=0.593 total time=  
 0.0s  
 [CV 1/5; 104/1980] START leaf\_size=21, n\_neighbors=5...  
 [CV 1/5; 96/1980] END leaf\_size=20, n\_neighbors=96;; score=0.637 total time=  
 0.0s  
  
 [CV 2/5; 94/1980] END leaf\_size=20, n\_neighbors=94;; score=0.600 total time=  
 0.0s  
 [CV 3/5; 94/1980] START leaf\_size=20, n\_neighbors=94...  
 [CV 2/5; 105/1980] END leaf\_size=21, n\_neighbors=6;; score=0.546 total time=  
 0.0s  
 [CV 3/5; 105/1980] START leaf\_size=21, n\_neighbors=6...  
 [CV 3/5; 107/1980] END leaf\_size=21, n\_neighbors=8;; score=0.551 total time=  
 0.0s  
 [CV 4/5; 107/1980] START leaf\_size=21, n\_neighbors=8...  
 [CV 1/5; 107/1980] END leaf\_size=21, n\_neighbors=8;; score=0.568 total time=  
 0.0s [CV 1/5; 109/1980] START leaf\_size=21,  
 n\_neighbors=10...  
  
 [CV 2/5; 107/1980] START leaf\_size=21, n\_neighbors=8...  
 [CV 4/5; 97/1980] END leaf\_size=20, n\_neighbors=97;; score=0.580 total time=  
 0.0s  
 [CV 5/5; 100/1980] END leaf\_size=21, n\_neighbors=1;; score=0.567 total time=  
 0.0s  
 [CV 4/5; 110/1980] START leaf\_size=21, n\_neighbors=11...  
 [CV 5/5; 113/1980] START leaf\_size=21, n\_neighbors=14...  
 [CV 2/5; 112/1980] START leaf\_size=21, n\_neighbors=13...  
 [CV 1/5; 104/1980] END leaf\_size=21, n\_neighbors=5;; score=0.546 total time=  
 0.0s  
 [CV 3/5; 115/1980] START leaf\_size=21, n\_neighbors=16...  
 [CV 2/5; 107/1980] END leaf\_size=21, n\_neighbors=8;; score=0.551 total time=  
 0.0s  
 [CV 3/5; 105/1980] END leaf\_size=21, n\_neighbors=6;; score=0.555 total time=  
 0.0s  
 [CV 4/5; 105/1980] START leaf\_size=21, n\_neighbors=6...  
 [CV 1/5; 117/1980] START leaf\_size=21, n\_neighbors=18...

[CV 5/5; 98/1980] END leaf\_size=20, n\_neighbors=98;; score=0.606 total time=0.0s  
 [CV 1/5; 99/1980] START leaf\_size=20, n\_neighbors=99...  
 [CV 1/5; 109/1980] END leaf\_size=21, n\_neighbors=10;; score=0.611 total time=0.0s  
 [CV 2/5; 109/1980] START leaf\_size=21, n\_neighbors=10...  
 [CV 4/5; 110/1980] END leaf\_size=21, n\_neighbors=11;; score=0.589 total time=0.0s  
 [CV 5/5; 110/1980] START leaf\_size=21, n\_neighbors=11...  
 [CV 3/5; 94/1980] END leaf\_size=20, n\_neighbors=94;; score=0.562 total time=0.0s  
 [CV 2/5; 112/1980] END leaf\_size=21, n\_neighbors=13;; score=0.570 total time=0.0s  
 [CV 3/5; 112/1980] START leaf\_size=21, n\_neighbors=13...  
 [CV 3/5; 115/1980] END leaf\_size=21, n\_neighbors=16;; score=0.557 total time=0.0s  
 [CV 4/5; 115/1980] START leaf\_size=21, n\_neighbors=16...  
 [CV 4/5; 118/1980] START leaf\_size=21, n\_neighbors=19...  
 [CV 4/5; 107/1980] END leaf\_size=21, n\_neighbors=8;; score=0.617 total time=0.0s  
 [CV 5/5; 107/1980] START leaf\_size=21, n\_neighbors=8...  
 [CV 4/5; 105/1980] END leaf\_size=21, n\_neighbors=6;; score=0.578 total time=0.0s  
 [CV 1/5; 117/1980] END leaf\_size=21, n\_neighbors=18;; score=0.635 total time=0.0s  
 [CV 2/5; 117/1980] START leaf\_size=21, n\_neighbors=18...  
 [CV 2/5; 120/1980] START leaf\_size=21, n\_neighbors=21...  
 [CV 5/5; 110/1980] END leaf\_size=21, n\_neighbors=11;; score=0.606 total time=0.0s  
 [CV 1/5; 111/1980] START leaf\_size=21, n\_neighbors=12...  
 [CV 2/5; 109/1980] END leaf\_size=21, n\_neighbors=10;; score=0.568 total time=0.0s  
 [CV 3/5; 109/1980] START leaf\_size=21, n\_neighbors=10...  
 [CV 5/5; 113/1980] END leaf\_size=21, n\_neighbors=14;; score=0.606 total time=0.1s  
 [CV 1/5; 114/1980] START leaf\_size=21, n\_neighbors=15...  
 [CV 3/5; 112/1980] END leaf\_size=21, n\_neighbors=13;; score=0.553 total time=0.0s  
 [CV 4/5; 112/1980] START leaf\_size=21, n\_neighbors=13...  
 [CV 4/5; 115/1980] END leaf\_size=21, n\_neighbors=16;; score=0.584 total time=0.0s  
 [CV 5/5; 115/1980] START leaf\_size=21, n\_neighbors=16...  
 [CV 4/5; 118/1980] END leaf\_size=21, n\_neighbors=19;; score=0.589 total time=0.0s  
 [CV 5/5; 118/1980] START leaf\_size=21, n\_neighbors=19...  
 [CV 2/5; 117/1980] END leaf\_size=21, n\_neighbors=18;; score=0.590 total time=0.0s  
 [CV 3/5; 117/1980] START leaf\_size=21, n\_neighbors=18...

[CV 1/5; 111/1980] END leaf\_size=21, n\_neighbors=12;; score=0.648 total time=0.0s  
 [CV 2/5; 111/1980] START leaf\_size=21, n\_neighbors=12...  
 [CV 1/5; 99/1980] END leaf\_size=20, n\_neighbors=99;; score=0.641 total time=0.0s  
 [CV 2/5; 99/1980] START leaf\_size=20, n\_neighbors=99...  
 [CV 5/5; 107/1980] END leaf\_size=21, n\_neighbors=8;; score=0.608 total time=0.0s  
 [CV 1/5; 108/1980] START leaf\_size=21, n\_neighbors=9...  
 [CV 2/5; 120/1980] END leaf\_size=21, n\_neighbors=21;; score=0.581 total time=0.0s  
 [CV 3/5; 120/1980] START leaf\_size=21, n\_neighbors=21...  
 [CV 3/5; 109/1980] END leaf\_size=21, n\_neighbors=10;; score=0.549 total time=0.0s  
 [CV 4/5; 109/1980] START leaf\_size=21, n\_neighbors=10...  
 [CV 1/5; 114/1980] END leaf\_size=21, n\_neighbors=15;; score=0.637 total time=0.0s  
 [CV 2/5; 114/1980] START leaf\_size=21, n\_neighbors=15...  
 [CV 5/5; 115/1980] END leaf\_size=21, n\_neighbors=16;; score=0.621 total time=0.0s  
 [CV 1/5; 116/1980] START leaf\_size=21, n\_neighbors=17...  
 [CV 4/5; 112/1980] END leaf\_size=21, n\_neighbors=13;; score=0.574 total time=0.0s  
 [CV 3/5; 117/1980] END leaf\_size=21, n\_neighbors=18;; score=0.555 total time=0.0s  
 [CV 5/5; 112/1980] START leaf\_size=21, n\_neighbors=13...  
  
 [CV 4/5; 117/1980] START leaf\_size=21, n\_neighbors=18...  
 [CV 5/5; 118/1980] END leaf\_size=21, n\_neighbors=19;; score=0.626 total time=0.0s  
 [CV 1/5; 119/1980] START leaf\_size=21, n\_neighbors=20...  
 [CV 2/5; 111/1980] END leaf\_size=21, n\_neighbors=12;; score=0.581 total time=0.0s  
 [CV 3/5; 111/1980] START leaf\_size=21, n\_neighbors=12...  
 [CV 1/5; 108/1980] END leaf\_size=21, n\_neighbors=9;; score=0.592 total time=0.0s  
 [CV 2/5; 108/1980] START leaf\_size=21, n\_neighbors=9...  
 [CV 2/5; 114/1980] END leaf\_size=21, n\_neighbors=15;; score=0.570 total time=0.0s  
 [CV 3/5; 114/1980] START leaf\_size=21, n\_neighbors=15...  
 [CV 3/5; 120/1980] END leaf\_size=21, n\_neighbors=21;; score=0.559 total time=0.0s  
 [CV 4/5; 120/1980] START leaf\_size=21, n\_neighbors=21...  
 [CV 1/5; 116/1980] END leaf\_size=21, n\_neighbors=17;; score=0.631 total time=0.0s  
 [CV 2/5; 116/1980] START leaf\_size=21, n\_neighbors=17...  
 [CV 4/5; 109/1980] END leaf\_size=21, n\_neighbors=10;; score=0.597 total time=0.0s

[CV 5/5; 109/1980] START leaf\_size=21, n\_neighbors=10...  
 [CV 4/5; 117/1980] END leaf\_size=21, n\_neighbors=18;; score=0.600 total time=0.0s  
 [CV 5/5; 112/1980] END leaf\_size=21, n\_neighbors=13;; score=0.591 total time=0.0s  
 [CV 5/5; 117/1980] START leaf\_size=21, n\_neighbors=18...  
 [CV 1/5; 113/1980] START leaf\_size=21, n\_neighbors=14...  
 [CV 2/5; 99/1980] END leaf\_size=20, n\_neighbors=99;; score=0.598 total time=0.0s  
 [CV 5/5; 121/1980] START leaf\_size=21, n\_neighbors=22...  
 [CV 3/5; 111/1980] END leaf\_size=21, n\_neighbors=12;; score=0.546 total time=0.0s  
 [CV 4/5; 111/1980] START leaf\_size=21, n\_neighbors=12...  
 [CV 1/5; 119/1980] END leaf\_size=21, n\_neighbors=20;; score=0.618 total time=0.0s  
 [CV 2/5; 119/1980] START leaf\_size=21, n\_neighbors=20...  
 [CV 2/5; 108/1980] END leaf\_size=21, n\_neighbors=9;; score=0.570 total time=0.0s  
 [CV 3/5; 108/1980] START leaf\_size=21, n\_neighbors=9...  
 [CV 3/5; 114/1980] END leaf\_size=21, n\_neighbors=15;; score=0.557 total time=0.0s  
 [CV 4/5; 114/1980] START leaf\_size=21, n\_neighbors=15...  
 [CV 4/5; 120/1980] END leaf\_size=21, n\_neighbors=21;; score=0.606 total time=0.0s  
 [CV 5/5; 120/1980] START leaf\_size=21, n\_neighbors=21...  
 [CV 5/5; 109/1980] END leaf\_size=21, n\_neighbors=10;; score=0.615 total time=0.0s  
 [CV 1/5; 110/1980] START leaf\_size=21, n\_neighbors=11...  
 [CV 5/5; 117/1980] END leaf\_size=21, n\_neighbors=18;; score=0.617 total time=0.0s  
 [CV 1/5; 118/1980] START leaf\_size=21, n\_neighbors=19...  
 [CV 2/5; 116/1980] END leaf\_size=21, n\_neighbors=17;; score=0.568 total time=0.0s  
 [CV 3/5; 116/1980] START leaf\_size=21, n\_neighbors=17...  
 [CV 1/5; 113/1980] END leaf\_size=21, n\_neighbors=14;; score=0.644 total time=0.0s  
 [CV 2/5; 113/1980] START leaf\_size=21, n\_neighbors=14...  
 [CV 4/5; 111/1980] END leaf\_size=21, n\_neighbors=12;; score=0.576 total time=0.0s  
 [CV 5/5; 111/1980] START leaf\_size=21, n\_neighbors=12...  
 [CV 4/5; 114/1980] END leaf\_size=21, n\_neighbors=15;; score=0.584 total time=0.0s  
 [CV 5/5; 114/1980] START leaf\_size=21, n\_neighbors=15...  
 [CV 2/5; 119/1980] END leaf\_size=21, n\_neighbors=20;; score=0.583 total time=0.0s  
 [CV 3/5; 119/1980] START leaf\_size=21, n\_neighbors=20...  
 [CV 5/5; 121/1980] END leaf\_size=21, n\_neighbors=22;; score=0.628 total time=0.0s



[CV 1/5; 122/1980] START leaf\_size=21, n\_neighbors=23...  
 [CV 3/5; 108/1980] END leaf\_size=21, n\_neighbors=9;; score=0.559 total time=0.0s  
 [CV 4/5; 108/1980] START leaf\_size=21, n\_neighbors=9...  
 [CV 1/5; 118/1980] END leaf\_size=21, n\_neighbors=19;; score=0.637 total time=0.0s  
 [CV 2/5; 118/1980] START leaf\_size=21, n\_neighbors=19...  
 [CV 1/5; 110/1980] END leaf\_size=21, n\_neighbors=11;; score=0.624 total time=0.0s  
 [CV 2/5; 110/1980] START leaf\_size=21, n\_neighbors=11...  
 [CV 2/5; 113/1980] END leaf\_size=21, n\_neighbors=14;; score=0.572 total time=0.0s  
 [CV 3/5; 113/1980] START leaf\_size=21, n\_neighbors=14...  
 [CV 3/5; 116/1980] END leaf\_size=21, n\_neighbors=17;; score=0.564 total time=0.0s  
 [CV 4/5; 116/1980] START leaf\_size=21, n\_neighbors=17...  
 [CV 5/5; 120/1980] END leaf\_size=21, n\_neighbors=21;; score=0.621 total time=0.0s  
 [CV 1/5; 121/1980] START leaf\_size=21, n\_neighbors=22...  
 [CV 5/5; 111/1980] END leaf\_size=21, n\_neighbors=12;; score=0.613 total time=0.0s  
 [CV 1/5; 112/1980] START leaf\_size=21, n\_neighbors=13...  
 [CV 5/5; 114/1980] END leaf\_size=21, n\_neighbors=15;; score=0.615 total time=0.0s  
 [CV 1/5; 115/1980] START leaf\_size=21, n\_neighbors=16...  
 [CV 2/5; 118/1980] END leaf\_size=21, n\_neighbors=19;; score=0.583 total time=0.0s  
 [CV 3/5; 118/1980] START leaf\_size=21, n\_neighbors=19...  
 [CV 3/5; 119/1980] END leaf\_size=21, n\_neighbors=20;; score=0.553 total time=0.0s  
 [CV 4/5; 119/1980] START leaf\_size=21, n\_neighbors=20...  
 [CV 4/5; 108/1980] END leaf\_size=21, n\_neighbors=9;; score=0.589 total time=0.0s  
 [CV 5/5; 108/1980] START leaf\_size=21, n\_neighbors=9...  
 [CV 2/5; 110/1980] END leaf\_size=21, n\_neighbors=11;; score=0.579 total time=0.0s  
 [CV 3/5; 113/1980] END leaf\_size=21, n\_neighbors=14;; score=0.544 total time=0.0s  
 [CV 4/5; 113/1980] START leaf\_size=21, n\_neighbors=14...  
  
 [CV 3/5; 110/1980] START leaf\_size=21, n\_neighbors=11...  
 [CV 4/5; 116/1980] END leaf\_size=21, n\_neighbors=17;; score=0.580 total time=0.0s  
 [CV 5/5; 116/1980] START leaf\_size=21, n\_neighbors=17...  
 [CV 1/5; 122/1980] END leaf\_size=21, n\_neighbors=23;; score=0.646 total time=0.0s  
 [CV 2/5; 122/1980] START leaf\_size=21, n\_neighbors=23...  
 [CV 1/5; 121/1980] END leaf\_size=21, n\_neighbors=22;; score=0.622 total time=0.0s

[CV 1/5; 112/1980] END leaf\_size=21, n\_neighbors=13;; score=0.633 total time=0.0s  
 [CV 2/5; 121/1980] START leaf\_size=21, n\_neighbors=22...  
 [CV 3/5; 123/1980] START leaf\_size=21, n\_neighbors=24...  
 [CV 3/5; 118/1980] END leaf\_size=21, n\_neighbors=19;; score=0.551 total time=0.0s  
 [CV 5/5; 108/1980] END leaf\_size=21, n\_neighbors=9;; score=0.613 total time=0.0s  
 [CV 4/5; 119/1980] END leaf\_size=21, n\_neighbors=20;; score=0.600 total time=0.0s  
 [CV 3/5; 110/1980] END leaf\_size=21, n\_neighbors=11;; score=0.551 total time= 0.0s  
  
 [CV 5/5; 119/1980] START leaf\_size=21, n\_neighbors=20...  
 [CV 1/5; 115/1980] END leaf\_size=21, n\_neighbors=16;; score=0.637 total time=0.0s  
 [CV 2/5; 115/1980] START leaf\_size=21, n\_neighbors=16...  
 [CV 5/5; 116/1980] END leaf\_size=21, n\_neighbors=17;; score=0.610 total time=0.0s  
 [CV 1/5; 125/1980] START leaf\_size=21, n\_neighbors=26...  
 [CV 4/5; 113/1980] END leaf\_size=21, n\_neighbors=14;; score=0.584 total time=0.0s  
 [CV 4/5; 126/1980] START leaf\_size=21, n\_neighbors=27...  
 [CV 2/5; 121/1980] END leaf\_size=21, n\_neighbors=22;; score=0.587 total time=0.0s  
 [CV 3/5; 121/1980] START leaf\_size=21, n\_neighbors=22...  
 [CV 2/5; 122/1980] END leaf\_size=21, n\_neighbors=23;; score=0.583 total time=0.0s  
 [CV 3/5; 122/1980] START leaf\_size=21, n\_neighbors=23...  
 [CV 3/5; 123/1980] END leaf\_size=21, n\_neighbors=24;; score=0.564 total time=0.0s  
 [CV 2/5; 128/1980] START leaf\_size=21, n\_neighbors=29...  
 [CV 4/5; 123/1980] START leaf\_size=21, n\_neighbors=24...  
 [CV 3/5; 131/1980] START leaf\_size=21, n\_neighbors=32...  
 [CV 5/5; 129/1980] START leaf\_size=21, n\_neighbors=30...  
 [CV 2/5; 115/1980] END leaf\_size=21, n\_neighbors=16;; score=0.575 total time=0.0s  
 [CV 5/5; 119/1980] END leaf\_size=21, n\_neighbors=20;; score=0.632 total time=0.0s  
 [CV 1/5; 120/1980] START leaf\_size=21, n\_neighbors=21...  
 [CV 1/5; 125/1980] END leaf\_size=21, n\_neighbors=26;; score=0.639 total time=0.0s  
 [CV 2/5; 125/1980] START leaf\_size=21, n\_neighbors=26...  
 [CV 1/5; 133/1980] START leaf\_size=21, n\_neighbors=34...  
 [CV 4/5; 126/1980] END leaf\_size=21, n\_neighbors=27;; score=0.593 total time=0.0s  
 [CV 5/5; 126/1980] START leaf\_size=21, n\_neighbors=27...  
 [CV 3/5; 121/1980] END leaf\_size=21, n\_neighbors=22;; score=0.555 total time=0.0s

[CV 4/5; 121/1980] START leaf\_size=21, n\_neighbors=22...  
 [CV 4/5; 123/1980] END leaf\_size=21, n\_neighbors=24;; score=0.597 total time=0.0s  
 [CV 5/5; 123/1980] START leaf\_size=21, n\_neighbors=24...  
 [CV 2/5; 128/1980] END leaf\_size=21, n\_neighbors=29;; score=0.600 total time=0.0s  
 [CV 3/5; 128/1980] START leaf\_size=21, n\_neighbors=29...  
 [CV 3/5; 122/1980] END leaf\_size=21, n\_neighbors=23;; score=0.557 total time=0.0s  
 [CV 4/5; 122/1980] START leaf\_size=21, n\_neighbors=23...  
 [CV 3/5; 131/1980] END leaf\_size=21, n\_neighbors=32;; score=0.577 total time=0.0s  
 [CV 4/5; 131/1980] START leaf\_size=21, n\_neighbors=32...  
 [CV 5/5; 129/1980] END leaf\_size=21, n\_neighbors=30;; score=0.632 total time=0.0s  
 [CV 1/5; 130/1980] START leaf\_size=21, n\_neighbors=31...  
 [CV 1/5; 120/1980] END leaf\_size=21, n\_neighbors=21;; score=0.626 total time=0.0s  
 [CV 2/5; 125/1980] END leaf\_size=21, n\_neighbors=26;; score=0.600 total time=0.0s  
 [CV 3/5; 125/1980] START leaf\_size=21, n\_neighbors=26...  
 [CV 4/5; 134/1980] START leaf\_size=21, n\_neighbors=35...  
 [CV 4/5; 121/1980] END leaf\_size=21, n\_neighbors=22;; score=0.600 total time=0.0s  
 [CV 2/5; 136/1980] START leaf\_size=21, n\_neighbors=37...  
 [CV 5/5; 126/1980] END leaf\_size=21, n\_neighbors=27;; score=0.630 total time=0.0s  
 [CV 1/5; 127/1980] START leaf\_size=21, n\_neighbors=28...  
 [CV 1/5; 133/1980] END leaf\_size=21, n\_neighbors=34;; score=0.644 total time=0.0s  
 [CV 2/5; 133/1980] START leaf\_size=21, n\_neighbors=34...  
 [CV 5/5; 123/1980] END leaf\_size=21, n\_neighbors=24;; score=0.647 total time=0.0s  
 [CV 1/5; 124/1980] START leaf\_size=21, n\_neighbors=25...  
 [CV 3/5; 128/1980] END leaf\_size=21, n\_neighbors=29;; score=0.577 total time=0.0s  
 [CV 4/5; 128/1980] START leaf\_size=21, n\_neighbors=29...  
 [CV 4/5; 122/1980] END leaf\_size=21, n\_neighbors=23;; score=0.600 total time=0.0s  
 [CV 5/5; 122/1980] START leaf\_size=21, n\_neighbors=23...  
 [CV 4/5; 131/1980] END leaf\_size=21, n\_neighbors=32;; score=0.593 total time=0.0s  
 [CV 5/5; 131/1980] START leaf\_size=21, n\_neighbors=32...  
 [CV 1/5; 130/1980] END leaf\_size=21, n\_neighbors=31;; score=0.644 total time=0.0s  
 [CV 2/5; 130/1980] START leaf\_size=21, n\_neighbors=31...  
 [CV 3/5; 125/1980] END leaf\_size=21, n\_neighbors=26;; score=0.564 total time=0.0s

[CV 4/5; 125/1980] START leaf\_size=21, n\_neighbors=26...  
 [CV 4/5; 134/1980] END leaf\_size=21, n\_neighbors=35;; score=0.604 total time=0.0s  
 [CV 5/5; 134/1980] START leaf\_size=21, n\_neighbors=35...  
 [CV 2/5; 136/1980] END leaf\_size=21, n\_neighbors=37;; score=0.607 total time=0.0s  
 [CV 3/5; 136/1980] START leaf\_size=21, n\_neighbors=37...  
 [CV 2/5; 133/1980] END leaf\_size=21, n\_neighbors=34;; score=0.600 total time=0.0s  
 [CV 1/5; 124/1980] END leaf\_size=21, n\_neighbors=25;; score=0.646 total time=0.0s  
 [CV 3/5; 133/1980] START leaf\_size=21, n\_neighbors=34...  
  
 [CV 1/5; 127/1980] END leaf\_size=21, n\_neighbors=28;; score=0.650 total time=0.0s  
 [CV 2/5; 127/1980] START leaf\_size=21, n\_neighbors=28...  
 [CV 2/5; 124/1980] START leaf\_size=21, n\_neighbors=25...  
 [CV 4/5; 128/1980] END leaf\_size=21, n\_neighbors=29;; score=0.600 total time=0.0s  
 [CV 5/5; 128/1980] START leaf\_size=21, n\_neighbors=29...  
 [CV 5/5; 131/1980] END leaf\_size=21, n\_neighbors=32;; score=0.628 total time=0.0s  
 [CV 1/5; 132/1980] START leaf\_size=21, n\_neighbors=33...  
 [CV 5/5; 122/1980] END leaf\_size=21, n\_neighbors=23;; score=0.643 total time=0.0s  
 [CV 1/5; 123/1980] START leaf\_size=21, n\_neighbors=24...  
 [CV 4/5; 125/1980] END leaf\_size=21, n\_neighbors=26;; score=0.593 total time=0.0s  
 [CV 5/5; 125/1980] START leaf\_size=21, n\_neighbors=26...  
 [CV 3/5; 136/1980] END leaf\_size=21, n\_neighbors=37;; score=0.568 total time=0.0s  
 [CV 4/5; 136/1980] START leaf\_size=21, n\_neighbors=37...  
 [CV 5/5; 134/1980] END leaf\_size=21, n\_neighbors=35;; score=0.639 total time=0.0s  
 [CV 1/5; 135/1980] START leaf\_size=21, n\_neighbors=36...  
 [CV 3/5; 133/1980] END leaf\_size=21, n\_neighbors=34;; score=0.577 total time=0.0s  
 [CV 4/5; 133/1980] START leaf\_size=21, n\_neighbors=34...  
 [CV 2/5; 124/1980] END leaf\_size=21, n\_neighbors=25;; score=0.598 total time=0.0s  
 [CV 5/5; 128/1980] END leaf\_size=21, n\_neighbors=29;; score=0.639 total time=0.0s  
 [CV 3/5; 124/1980] START leaf\_size=21, n\_neighbors=25...  
  
 [CV 1/5; 129/1980] START leaf\_size=21, n\_neighbors=30...  
 [CV 2/5; 130/1980] END leaf\_size=21, n\_neighbors=31;; score=0.603 total time=0.0s  
 [CV 3/5; 130/1980] START leaf\_size=21, n\_neighbors=31...

[CV 2/5; 127/1980] END leaf\_size=21, n\_neighbors=28;; score=0.598 total time=0.0s  
 [CV 3/5; 127/1980] START leaf\_size=21, n\_neighbors=28...  
 [CV 1/5; 132/1980] END leaf\_size=21, n\_neighbors=33;; score=0.646 total time=0.0s  
 [CV 2/5; 132/1980] START leaf\_size=21, n\_neighbors=33...  
 [CV 5/5; 125/1980] END leaf\_size=21, n\_neighbors=26;; score=0.628 total time=0.0s  
 [CV 1/5; 126/1980] START leaf\_size=21, n\_neighbors=27...  
 [CV 1/5; 123/1980] END leaf\_size=21, n\_neighbors=24;; score=0.646 total time=0.0s  
 [CV 2/5; 123/1980] START leaf\_size=21, n\_neighbors=24...  
 [CV 4/5; 136/1980] END leaf\_size=21, n\_neighbors=37;; score=0.610 total time=0.0s  
 [CV 5/5; 136/1980] START leaf\_size=21, n\_neighbors=37...  
 [CV 4/5; 133/1980] END leaf\_size=21, n\_neighbors=34;; score=0.597 total time=0.0s  
 [CV 5/5; 133/1980] START leaf\_size=21, n\_neighbors=34...  
 [CV 3/5; 124/1980] END leaf\_size=21, n\_neighbors=25;; score=0.557 total time=0.0s  
 [CV 4/5; 124/1980] START leaf\_size=21, n\_neighbors=25...  
 [CV 1/5; 135/1980] END leaf\_size=21, n\_neighbors=36;; score=0.644 total time=0.0s  
 [CV 2/5; 135/1980] START leaf\_size=21, n\_neighbors=36...  
 [CV 1/5; 129/1980] END leaf\_size=21, n\_neighbors=30;; score=0.639 total time=0.0s  
 [CV 2/5; 129/1980] START leaf\_size=21, n\_neighbors=30...  
 [CV 3/5; 130/1980] END leaf\_size=21, n\_neighbors=31;; score=0.570 total time=0.0s  
 [CV 4/5; 130/1980] START leaf\_size=21, n\_neighbors=31...  
 [CV 1/5; 126/1980] END leaf\_size=21, n\_neighbors=27;; score=0.650 total time=0.0s  
 [CV 2/5; 126/1980] START leaf\_size=21, n\_neighbors=27...  
 [CV 5/5; 136/1980] END leaf\_size=21, n\_neighbors=37;; score=0.628 total time=0.0s  
 [CV 1/5; 137/1980] START leaf\_size=21, n\_neighbors=38...  
 [CV 2/5; 132/1980] END leaf\_size=21, n\_neighbors=33;; score=0.607 total time=0.0s  
 [CV 3/5; 132/1980] START leaf\_size=21, n\_neighbors=33...  
 [CV 5/5; 133/1980] END leaf\_size=21, n\_neighbors=34;; score=0.634 total time=0.0s  
 [CV 1/5; 134/1980] START leaf\_size=21, n\_neighbors=35...  
 [CV 4/5; 124/1980] END leaf\_size=21, n\_neighbors=25;; score=0.587 total time=0.0s  
 [CV 5/5; 124/1980] START leaf\_size=21, n\_neighbors=25...  
 [CV 2/5; 123/1980] END leaf\_size=21, n\_neighbors=24;; score=0.596 total time=0.0s  
 [CV 5/5; 137/1980] START leaf\_size=21, n\_neighbors=38...

[CV 2/5; 129/1980] END leaf\_size=21, n\_neighbors=30;; score=0.607 total time=0.0s  
 [CV 3/5; 129/1980] START leaf\_size=21, n\_neighbors=30...  
 [CV 4/5; 130/1980] END leaf\_size=21, n\_neighbors=31;; score=0.595 total time=0.0s  
 [CV 5/5; 130/1980] START leaf\_size=21, n\_neighbors=31...  
 [CV 3/5; 127/1980] END leaf\_size=21, n\_neighbors=28;; score=0.568 total time=0.1s  
 [CV 4/5; 127/1980] START leaf\_size=21, n\_neighbors=28...  
 [CV 2/5; 126/1980] END leaf\_size=21, n\_neighbors=27;; score=0.594 total time=0.0s  
 [CV 3/5; 126/1980] START leaf\_size=21, n\_neighbors=27...  
 [CV 2/5; 135/1980] END leaf\_size=21, n\_neighbors=36;; score=0.616 total time=0.0s  
 [CV 3/5; 135/1980] START leaf\_size=21, n\_neighbors=36...  
 [CV 1/5; 137/1980] END leaf\_size=21, n\_neighbors=38;; score=0.652 total time=0.0s  
 [CV 2/5; 137/1980] START leaf\_size=21, n\_neighbors=38...  
 [CV 3/5; 132/1980] END leaf\_size=21, n\_neighbors=33;; score=0.570 total time=0.0s  
 [CV 4/5; 132/1980] START leaf\_size=21, n\_neighbors=33...  
 [CV 5/5; 124/1980] END leaf\_size=21, n\_neighbors=25;; score=0.647 total time=0.0s  
 [CV 1/5; 134/1980] END leaf\_size=21, n\_neighbors=35;; score=0.650 total time=0.0s  
 [CV 2/5; 134/1980] START leaf\_size=21, n\_neighbors=35...  
 [CV 3/5; 139/1980] START leaf\_size=21, n\_neighbors=40...  
 [CV 3/5; 129/1980] END leaf\_size=21, n\_neighbors=30;; score=0.579 total time=0.0s  
 [CV 4/5; 129/1980] START leaf\_size=21, n\_neighbors=30...  
 [CV 5/5; 130/1980] END leaf\_size=21, n\_neighbors=31;; score=0.634 total time=0.0s  
 [CV 3/5; 126/1980] END leaf\_size=21, n\_neighbors=27;; score=0.568 total time=0.0s  
  
 [CV 1/5; 131/1980] START leaf\_size=21, n\_neighbors=32...  
 [CV 5/5; 137/1980] END leaf\_size=21, n\_neighbors=38;; score=0.634 total time=0.0s  
 [CV 1/5; 138/1980] START leaf\_size=21, n\_neighbors=39...  
 [CV 2/5; 137/1980] END leaf\_size=21, n\_neighbors=38;; score=0.613 total time=0.0s  
 [CV 3/5; 137/1980] START leaf\_size=21, n\_neighbors=38...  
 [CV 3/5; 135/1980] END leaf\_size=21, n\_neighbors=36;; score=0.566 total time=0.0s  
 [CV 4/5; 135/1980] START leaf\_size=21, n\_neighbors=36...  
 [CV 4/5; 132/1980] END leaf\_size=21, n\_neighbors=33;; score=0.597 total time=0.0s  
 [CV 5/5; 132/1980] START leaf\_size=21, n\_neighbors=33...  
 [CV 1/5; 141/1980] START leaf\_size=21, n\_neighbors=42...

[CV 2/5; 134/1980] END leaf\_size=21, n\_neighbors=35;; score=0.607 total time=0.0s  
 [CV 3/5; 134/1980] START leaf\_size=21, n\_neighbors=35...  
 [CV 4/5; 127/1980] END leaf\_size=21, n\_neighbors=28;; score=0.597 total time=0.0s  
 [CV 5/5; 127/1980] START leaf\_size=21, n\_neighbors=28...  
 [CV 3/5; 139/1980] END leaf\_size=21, n\_neighbors=40;; score=0.572 total time=0.0s  
 [CV 4/5; 139/1980] START leaf\_size=21, n\_neighbors=40...  
 [CV 4/5; 129/1980] END leaf\_size=21, n\_neighbors=30;; score=0.595 total time=0.0s  
 [CV 4/5; 142/1980] START leaf\_size=21, n\_neighbors=43...  
 [CV 3/5; 137/1980] END leaf\_size=21, n\_neighbors=38;; score=0.566 total time=0.0s  
 [CV 4/5; 137/1980] START leaf\_size=21, n\_neighbors=38...  
 [CV 1/5; 131/1980] END leaf\_size=21, n\_neighbors=32;; score=0.639 total time=0.0s  
 [CV 2/5; 131/1980] START leaf\_size=21, n\_neighbors=32...  
 [CV 5/5; 132/1980] END leaf\_size=21, n\_neighbors=33;; score=0.630 total time=0.0s  
 [CV 2/5; 144/1980] START leaf\_size=21, n\_neighbors=45...  
 [CV 3/5; 134/1980] END leaf\_size=21, n\_neighbors=35;; score=0.572 total time=0.0s  
 [CV 1/5; 141/1980] END leaf\_size=21, n\_neighbors=42;; score=0.667 total time=0.0s  
 [CV 2/5; 141/1980] START leaf\_size=21, n\_neighbors=42...  
 [CV 1/5; 138/1980] END leaf\_size=21, n\_neighbors=39;; score=0.654 total time=0.0s  
 [CV 2/5; 138/1980] START leaf\_size=21, n\_neighbors=39...  
 [CV 5/5; 145/1980] START leaf\_size=21, n\_neighbors=46...  
 [CV 4/5; 135/1980] END leaf\_size=21, n\_neighbors=36;; score=0.600 total time=0.0s  
 [CV 5/5; 135/1980] START leaf\_size=21, n\_neighbors=36...  
 [CV 4/5; 139/1980] END leaf\_size=21, n\_neighbors=40;; score=0.595 total time=0.0s  
 [CV 5/5; 139/1980] START leaf\_size=21, n\_neighbors=40...  
 [CV 4/5; 142/1980] END leaf\_size=21, n\_neighbors=43;; score=0.600 total time=0.0s  
 [CV 5/5; 142/1980] START leaf\_size=21, n\_neighbors=43...  
 [CV 4/5; 137/1980] END leaf\_size=21, n\_neighbors=38;; score=0.602 total time=0.0s  
 [CV 3/5; 147/1980] START leaf\_size=21, n\_neighbors=48...  
 [CV 2/5; 131/1980] END leaf\_size=21, n\_neighbors=32;; score=0.605 total time=0.0s  
 [CV 1/5; 149/1980] START leaf\_size=21, n\_neighbors=50...  
 [CV 2/5; 144/1980] END leaf\_size=21, n\_neighbors=45;; score=0.611 total time=0.0s  
 [CV 3/5; 144/1980] START leaf\_size=21, n\_neighbors=45...

[CV 5/5; 145/1980] END leaf\_size=21, n\_neighbors=46;; score=0.619 total time=0.0s

[CV 1/5; 146/1980] START leaf\_size=21, n\_neighbors=47...

[CV 2/5; 141/1980] END leaf\_size=21, n\_neighbors=42;; score=0.618 total time=0.0s

[CV 5/5; 127/1980] END leaf\_size=21, n\_neighbors=28;; score=0.641 total time= 0.1s

[CV 1/5; 128/1980] START leaf\_size=21, n\_neighbors=29...

[CV 3/5; 141/1980] START leaf\_size=21, n\_neighbors=42...

[CV 5/5; 135/1980] END leaf\_size=21, n\_neighbors=36;; score=0.628 total time=0.0s

[CV 1/5; 136/1980] START leaf\_size=21, n\_neighbors=37...

[CV 5/5; 139/1980] END leaf\_size=21, n\_neighbors=40;; score=0.617 total time=0.0s

[CV 1/5; 140/1980] START leaf\_size=21, n\_neighbors=41...

[CV 5/5; 142/1980] END leaf\_size=21, n\_neighbors=43;; score=0.615 total time=0.0s

[CV 1/5; 143/1980] START leaf\_size=21, n\_neighbors=44...

[CV 2/5; 138/1980] END leaf\_size=21, n\_neighbors=39;; score=0.609 total time=0.0s

[CV 3/5; 138/1980] START leaf\_size=21, n\_neighbors=39...

[CV 3/5; 147/1980] END leaf\_size=21, n\_neighbors=48;; score=0.562 total time=0.0s

[CV 4/5; 147/1980] START leaf\_size=21, n\_neighbors=48...

[CV 1/5; 149/1980] END leaf\_size=21, n\_neighbors=50;; score=0.678 total time=0.0s

[CV 2/5; 149/1980] START leaf\_size=21, n\_neighbors=50...

[CV 3/5; 144/1980] END leaf\_size=21, n\_neighbors=45;; score=0.575 total time=0.0s

[CV 4/5; 144/1980] START leaf\_size=21, n\_neighbors=45...

[CV 3/5; 141/1980] END leaf\_size=21, n\_neighbors=42;; score=0.564 total time=0.0s

[CV 4/5; 141/1980] START leaf\_size=21, n\_neighbors=42...

[CV 1/5; 146/1980] END leaf\_size=21, n\_neighbors=47;; score=0.676 total time=0.0s

[CV 2/5; 146/1980] START leaf\_size=21, n\_neighbors=47...

[CV 1/5; 143/1980] END leaf\_size=21, n\_neighbors=44;; score=0.667 total time=0.0s

[CV 1/5; 140/1980] END leaf\_size=21, n\_neighbors=41;; score=0.665 total time= 0.0s

[CV 2/5; 140/1980] START leaf\_size=21, n\_neighbors=41...

[CV 2/5; 143/1980] START leaf\_size=21, n\_neighbors=44...

[CV 4/5; 147/1980] END leaf\_size=21, n\_neighbors=48;; score=0.589 total time=0.0s

[CV 5/5; 147/1980] START leaf\_size=21, n\_neighbors=48...

[CV 3/5; 138/1980] END leaf\_size=21, n\_neighbors=39;; score=0.575 total time=



```

0.0s
[CV 1/5; 136/1980] END leaf_size=21, n_neighbors=37;; score=0.657 total time=
0.0s
[CV 4/5; 138/1980] START leaf_size=21, n_neighbors=39...
[CV 1/5; 128/1980] END leaf_size=21, n_neighbors=29;; score=0.646 total time=
0.0s
[CV 4/5; 150/1980] START leaf_size=21, n_neighbors=51...
[CV 4/5; 144/1980] END leaf_size=21, n_neighbors=45;; score=0.600 total time=
0.0s
[CV 5/5; 144/1980] START leaf_size=21, n_neighbors=45...
[CV 2/5; 152/1980] START leaf_size=21, n_neighbors=53...
[CV 2/5; 149/1980] END leaf_size=21, n_neighbors=50;; score=0.603 total time=
0.0s
[CV 3/5; 149/1980] START leaf_size=21, n_neighbors=50...
[CV 4/5; 141/1980] END leaf_size=21, n_neighbors=42;; score=0.608 total time=
0.0s
[CV 5/5; 141/1980] START leaf_size=21, n_neighbors=42...
[CV 2/5; 146/1980] END leaf_size=21, n_neighbors=47;; score=0.611 total time=
0.0s
[CV 3/5; 146/1980] START leaf_size=21, n_neighbors=47...
[CV 5/5; 147/1980] END leaf_size=21, n_neighbors=48;; score=0.630 total time=
0.0s
[CV 1/5; 148/1980] START leaf_size=21, n_neighbors=49...
[CV 2/5; 140/1980] END leaf_size=21, n_neighbors=41;; score=0.618 total time=
0.0s
[CV 3/5; 140/1980] START leaf_size=21, n_neighbors=41...
[CV 2/5; 143/1980] END leaf_size=21, n_neighbors=44;; score=0.613 total time=
0.0s
[CV 3/5; 143/1980] START leaf_size=21, n_neighbors=44...
[CV 5/5; 144/1980] END leaf_size=21, n_neighbors=45;; score=0.619 total time=
0.0s
[CV 1/5; 145/1980] START leaf_size=21, n_neighbors=46...
[CV 4/5; 138/1980] END leaf_size=21, n_neighbors=39;; score=0.602 total time=
0.0s
[CV 5/5; 138/1980] START leaf_size=21, n_neighbors=39...
[CV 2/5; 152/1980] END leaf_size=21, n_neighbors=53;; score=0.611 total time=
0.0s
[CV 3/5; 152/1980] START leaf_size=21, n_neighbors=53...
[CV 5/5; 141/1980] END leaf_size=21, n_neighbors=42;; score=0.621 total time=
0.0s
[CV 1/5; 142/1980] START leaf_size=21, n_neighbors=43...
[CV 3/5; 149/1980] END leaf_size=21, n_neighbors=50;; score=0.557 total time=
0.0s[CV 4/5; 150/1980] END leaf_size=21, n_neighbors=51;; score=0.602 total
time= 0.0s

[CV 5/5; 150/1980] START leaf_size=21, n_neighbors=51...
[CV 4/5; 149/1980] START leaf_size=21, n_neighbors=50...
[CV 3/5; 146/1980] END leaf_size=21, n_neighbors=47;; score=0.572 total time=

```

0.0s  
[CV 4/5; 146/1980] START leaf\_size=21, n\_neighbors=47...  
[CV 1/5; 148/1980] END leaf\_size=21, n\_neighbors=49;;, score=0.676 total time=0.0s  
0.0s  
[CV 2/5; 148/1980] START leaf\_size=21, n\_neighbors=49...  
[CV 3/5; 140/1980] END leaf\_size=21, n\_neighbors=41;;, score=0.568 total time=0.0s  
0.0s  
[CV 4/5; 140/1980] START leaf\_size=21, n\_neighbors=41...  
[CV 3/5; 143/1980] END leaf\_size=21, n\_neighbors=44;;, score=0.570 total time=0.0s  
0.0s  
[CV 4/5; 143/1980] START leaf\_size=21, n\_neighbors=44...  
[CV 1/5; 145/1980] END leaf\_size=21, n\_neighbors=46;;, score=0.672 total time=0.0s  
0.0s  
[CV 2/5; 145/1980] START leaf\_size=21, n\_neighbors=46...  
[CV 1/5; 142/1980] END leaf\_size=21, n\_neighbors=43;;, score=0.674 total time=0.0s  
0.0s  
[CV 2/5; 142/1980] START leaf\_size=21, n\_neighbors=43...  
[CV 3/5; 152/1980] END leaf\_size=21, n\_neighbors=53;;, score=0.572 total time=0.0s  
0.0s[CV 5/5; 138/1980] END leaf\_size=21, n\_neighbors=39;;, score=0.636 total time= 0.0s  
0.0s  
[CV 1/5; 139/1980] START leaf\_size=21, n\_neighbors=40...  
[CV 2/5; 148/1980] END leaf\_size=21, n\_neighbors=49;;, score=0.622 total time=0.0s  
0.0s  
[CV 3/5; 148/1980] START leaf\_size=21, n\_neighbors=49...  
[CV 4/5; 146/1980] END leaf\_size=21, n\_neighbors=47;;, score=0.589 total time=0.0s  
0.0s[CV 4/5; 140/1980] END leaf\_size=21, n\_neighbors=41;;, score=0.610 total time= 0.0s  
0.0s  
[CV 5/5; 146/1980] START leaf\_size=21, n\_neighbors=47...  
[CV 5/5; 140/1980] START leaf\_size=21, n\_neighbors=41...  
  
[CV 4/5; 152/1980] START leaf\_size=21, n\_neighbors=53...  
[CV 4/5; 149/1980] END leaf\_size=21, n\_neighbors=50;;, score=0.597 total time=0.0s  
0.0s  
[CV 5/5; 149/1980] START leaf\_size=21, n\_neighbors=50...  
[CV 4/5; 143/1980] END leaf\_size=21, n\_neighbors=44;;, score=0.597 total time=0.0s  
0.0s  
[CV 5/5; 143/1980] START leaf\_size=21, n\_neighbors=44...  
[CV 5/5; 150/1980] END leaf\_size=21, n\_neighbors=51;;, score=0.621 total time=0.0s  
0.0s  
[CV 1/5; 151/1980] START leaf\_size=21, n\_neighbors=52...  
[CV 2/5; 145/1980] END leaf\_size=21, n\_neighbors=46;;, score=0.616 total time=0.0s  
0.0s  
[CV 3/5; 145/1980] START leaf\_size=21, n\_neighbors=46...  
[CV 2/5; 142/1980] END leaf\_size=21, n\_neighbors=43;;, score=0.616 total time=0.0s  
0.0s  
[CV 3/5; 142/1980] START leaf\_size=21, n\_neighbors=43...  
[CV 3/5; 148/1980] END leaf\_size=21, n\_neighbors=49;;, score=0.568 total time=

0.0s  
 [CV 4/5; 148/1980] START leaf\_size=21, n\_neighbors=49...  
 [CV 5/5; 140/1980] END leaf\_size=21, n\_neighbors=41;; score=0.619 total time=  
 0.0s  
 [CV 5/5; 143/1980] END leaf\_size=21, n\_neighbors=44;; score=0.615 total time=  
 0.0s  
 [CV 1/5; 144/1980] START leaf\_size=21, n\_neighbors=45...  
 [CV 1/5; 139/1980] END leaf\_size=21, n\_neighbors=40;; score=0.661 total time=  
 0.0s  
 [CV 2/5; 139/1980] START leaf\_size=21, n\_neighbors=40...  
 [CV 5/5; 146/1980] END leaf\_size=21, n\_neighbors=47;; score=0.623 total time=  
 0.0s  
 [CV 1/5; 147/1980] START leaf\_size=21, n\_neighbors=48...  
 [CV 5/5; 153/1980] START leaf\_size=21, n\_neighbors=54...  
 [CV 5/5; 149/1980] END leaf\_size=21, n\_neighbors=50;; score=0.619 total time=  
 0.0s  
 [CV 1/5; 150/1980] START leaf\_size=21, n\_neighbors=51...  
 [CV 3/5; 145/1980] END leaf\_size=21, n\_neighbors=46;; score=0.572 total time=  
 0.0s  
 [CV 4/5; 145/1980] START leaf\_size=21, n\_neighbors=46...  
 [CV 1/5; 151/1980] END leaf\_size=21, n\_neighbors=52;; score=0.676 total time=  
 0.0s  
 [CV 2/5; 151/1980] START leaf\_size=21, n\_neighbors=52...  
 [CV 4/5; 152/1980] END leaf\_size=21, n\_neighbors=53;; score=0.600 total time=  
 0.0s  
 [CV 5/5; 152/1980] START leaf\_size=21, n\_neighbors=53...  
 [CV 3/5; 142/1980] END leaf\_size=21, n\_neighbors=43;; score=0.566 total time=  
 0.0s  
 [CV 4/5; 148/1980] END leaf\_size=21, n\_neighbors=49;; score=0.593 total time=  
 0.0s  
 [CV 5/5; 148/1980] START leaf\_size=21, n\_neighbors=49...  
 [CV 3/5; 155/1980] START leaf\_size=21, n\_neighbors=56...  
 [CV 1/5; 147/1980] END leaf\_size=21, n\_neighbors=48;; score=0.672 total time=  
 0.0s  
 [CV 2/5; 147/1980] START leaf\_size=21, n\_neighbors=48...  
 [CV 1/5; 144/1980] END leaf\_size=21, n\_neighbors=45;; score=0.678 total time=  
 0.0s  
 [CV 5/5; 153/1980] END leaf\_size=21, n\_neighbors=54;; score=0.608 total time=  
 0.0s  
 [CV 1/5; 154/1980] START leaf\_size=21, n\_neighbors=55...  
 [CV 1/5; 157/1980] START leaf\_size=21, n\_neighbors=58...  
 [CV 1/5; 150/1980] END leaf\_size=21, n\_neighbors=51;; score=0.680 total time=  
 0.0s  
 [CV 2/5; 150/1980] START leaf\_size=21, n\_neighbors=51...  
 [CV 4/5; 145/1980] END leaf\_size=21, n\_neighbors=46;; score=0.597 total time=  
 0.0s  
 [CV 4/5; 158/1980] START leaf\_size=21, n\_neighbors=59...  
 [CV 5/5; 148/1980] END leaf\_size=21, n\_neighbors=49;; score=0.623 total time=

```

0.0s
[CV 2/5; 160/1980] START leaf_size=21, n_neighbors=61...
[CV 3/5; 155/1980] END leaf_size=21, n_neighbors=56;; score=0.551 total time=
0.0s
[CV 4/5; 155/1980] START leaf_size=21, n_neighbors=56...
[CV 5/5; 152/1980] END leaf_size=21, n_neighbors=53;; score=0.613 total time=
0.0s
[CV 1/5; 153/1980] START leaf_size=21, n_neighbors=54...
[CV 2/5; 151/1980] END leaf_size=21, n_neighbors=52;; score=0.611 total time=
0.0s
[CV 3/5; 151/1980] START leaf_size=21, n_neighbors=52...
[CV 2/5; 147/1980] END leaf_size=21, n_neighbors=48;; score=0.609 total time=
0.0s
[CV 2/5; 139/1980] END leaf_size=21, n_neighbors=40;; score=0.611 total time=
0.1s
[CV 3/5; 163/1980] START leaf_size=21, n_neighbors=64...
[CV 5/5; 161/1980] START leaf_size=21, n_neighbors=62...
[CV 1/5; 154/1980] END leaf_size=21, n_neighbors=55;; score=0.667 total time=
0.0s
[CV 2/5; 154/1980] START leaf_size=21, n_neighbors=55...
[CV 1/5; 157/1980] END leaf_size=21, n_neighbors=58;; score=0.665 total time=
0.0s
[CV 2/5; 157/1980] START leaf_size=21, n_neighbors=58...
[CV 2/5; 150/1980] END leaf_size=21, n_neighbors=51;; score=0.618 total time=
0.0s
[CV 3/5; 150/1980] START leaf_size=21, n_neighbors=51...
[CV 4/5; 158/1980] END leaf_size=21, n_neighbors=59;; score=0.604 total time=
0.0s
[CV 5/5; 158/1980] START leaf_size=21, n_neighbors=59...
[CV 2/5; 160/1980] END leaf_size=21, n_neighbors=61;; score=0.603 total time=
0.0s
[CV 3/5; 160/1980] START leaf_size=21, n_neighbors=61...
[CV 4/5; 155/1980] END leaf_size=21, n_neighbors=56;; score=0.591 total time=
0.0s
[CV 5/5; 155/1980] START leaf_size=21, n_neighbors=56...
[CV 5/5; 161/1980] END leaf_size=21, n_neighbors=62;; score=0.610 total time=
0.0s
[CV 1/5; 162/1980] START leaf_size=21, n_neighbors=63...
[CV 2/5; 154/1980] END leaf_size=21, n_neighbors=55;; score=0.618 total time=
0.0s
[CV 3/5; 163/1980] END leaf_size=21, n_neighbors=64;; score=0.562 total time=
0.0s[CV 3/5; 154/1980] START leaf_size=21,
n_neighbors=55...

[CV 4/5; 163/1980] START leaf_size=21, n_neighbors=64...
[CV 1/5; 153/1980] END leaf_size=21, n_neighbors=54;; score=0.667 total time=
0.0s
[CV 2/5; 153/1980] START leaf_size=21, n_neighbors=54...

```

[CV 3/5; 151/1980] END leaf\_size=21, n\_neighbors=52;; score=0.566 total time=0.0s  
 [CV 4/5; 151/1980] START leaf\_size=21, n\_neighbors=52...  
 [CV 2/5; 157/1980] END leaf\_size=21, n\_neighbors=58;; score=0.609 total time=0.0s  
 [CV 3/5; 157/1980] START leaf\_size=21, n\_neighbors=58...  
 [CV 3/5; 160/1980] END leaf\_size=21, n\_neighbors=61;; score=0.557 total time=0.0s  
 [CV 4/5; 160/1980] START leaf\_size=21, n\_neighbors=61...  
 [CV 5/5; 155/1980] END leaf\_size=21, n\_neighbors=56;; score=0.613 total time=0.0s  
 [CV 1/5; 156/1980] START leaf\_size=21, n\_neighbors=57...  
 [CV 5/5; 158/1980] END leaf\_size=21, n\_neighbors=59;; score=0.610 total time=0.0s  
 [CV 1/5; 159/1980] START leaf\_size=21, n\_neighbors=60...  
 [CV 3/5; 154/1980] END leaf\_size=21, n\_neighbors=55;; score=0.564 total time=0.0s  
 [CV 4/5; 154/1980] START leaf\_size=21, n\_neighbors=55...  
 [CV 4/5; 163/1980] END leaf\_size=21, n\_neighbors=64;; score=0.593 total time=0.0s  
 [CV 5/5; 163/1980] START leaf\_size=21, n\_neighbors=64...  
 [CV 3/5; 150/1980] END leaf\_size=21, n\_neighbors=51;; score=0.566 total time=0.0s  
 [CV 1/5; 165/1980] START leaf\_size=21, n\_neighbors=66...  
 [CV 1/5; 162/1980] END leaf\_size=21, n\_neighbors=63;; score=0.665 total time=0.0s  
 [CV 2/5; 162/1980] START leaf\_size=21, n\_neighbors=63...  
 [CV 4/5; 151/1980] END leaf\_size=21, n\_neighbors=52;; score=0.597 total time=0.0s  
 [CV 5/5; 151/1980] START leaf\_size=21, n\_neighbors=52...  
 [CV 4/5; 160/1980] END leaf\_size=21, n\_neighbors=61;; score=0.604 total time=0.0s  
 [CV 5/5; 160/1980] START leaf\_size=21, n\_neighbors=61...  
 [CV 3/5; 157/1980] END leaf\_size=21, n\_neighbors=58;; score=0.549 total time=0.0s  
 [CV 4/5; 157/1980] START leaf\_size=21, n\_neighbors=58...  
 [CV 1/5; 156/1980] END leaf\_size=21, n\_neighbors=57;; score=0.665 total time=0.0s  
 [CV 2/5; 156/1980] START leaf\_size=21, n\_neighbors=57...  
 [CV 2/5; 153/1980] END leaf\_size=21, n\_neighbors=54;; score=0.618 total time=0.0s  
 [CV 3/5; 153/1980] START leaf\_size=21, n\_neighbors=54...  
 [CV 4/5; 154/1980] END leaf\_size=21, n\_neighbors=55;; score=0.593 total time=0.0s  
 [CV 5/5; 154/1980] START leaf\_size=21, n\_neighbors=55...  
 [CV 1/5; 159/1980] END leaf\_size=21, n\_neighbors=60;; score=0.667 total time=0.0s  
 [CV 2/5; 159/1980] START leaf\_size=21, n\_neighbors=60...

[CV 5/5; 163/1980] END leaf\_size=21, n\_neighbors=64;; score=0.613 total time=0.0s  
 [CV 1/5; 164/1980] START leaf\_size=21, n\_neighbors=65...  
 [CV 2/5; 162/1980] END leaf\_size=21, n\_neighbors=63;; score=0.609 total time=0.0s  
 [CV 3/5; 162/1980] START leaf\_size=21,  
 n\_neighbors=63...[CV 5/5; 160/1980] END leaf\_size=21,  
 n\_neighbors=61;; score=0.606 total time= 0.0s  
  
 [CV 1/5; 161/1980] START leaf\_size=21, n\_neighbors=62...  
 [CV 4/5; 157/1980] END leaf\_size=21, n\_neighbors=58;; score=0.595 total time=0.0s  
 [CV 5/5; 157/1980] START leaf\_size=21, n\_neighbors=58...  
 [CV 2/5; 156/1980] END leaf\_size=21, n\_neighbors=57;; score=0.616 total time=0.0s  
 [CV 3/5; 156/1980] START leaf\_size=21, n\_neighbors=57...  
 [CV 1/5; 165/1980] END leaf\_size=21, n\_neighbors=66;; score=0.663 total time=0.0s  
 [CV 2/5; 165/1980] START leaf\_size=21, n\_neighbors=66...  
 [CV 5/5; 151/1980] END leaf\_size=21, n\_neighbors=52;; score=0.619 total time=0.0s  
 [CV 1/5; 152/1980] START leaf\_size=21, n\_neighbors=53...  
 [CV 5/5; 154/1980] END leaf\_size=21, n\_neighbors=55;; score=0.608 total time=0.0s  
 [CV 1/5; 155/1980] START leaf\_size=21, n\_neighbors=56...  
 [CV 2/5; 159/1980] END leaf\_size=21, n\_neighbors=60;; score=0.605 total time=0.0s  
 [CV 3/5; 159/1980] START leaf\_size=21, n\_neighbors=60...  
 [CV 1/5; 164/1980] END leaf\_size=21, n\_neighbors=65;; score=0.663 total time=0.0s  
 [CV 2/5; 164/1980] START leaf\_size=21, n\_neighbors=65...  
 [CV 1/5; 161/1980] END leaf\_size=21, n\_neighbors=62;; score=0.663 total time=0.0s  
 [CV 2/5; 161/1980] START leaf\_size=21, n\_neighbors=62...  
 [CV 5/5; 157/1980] END leaf\_size=21, n\_neighbors=58;; score=0.610 total time=0.0s  
 [CV 1/5; 158/1980] START leaf\_size=21, n\_neighbors=59...  
 [CV 3/5; 156/1980] END leaf\_size=21, n\_neighbors=57;; score=0.559 total time=0.0s  
 [CV 4/5; 156/1980] START leaf\_size=21, n\_neighbors=57...  
 [CV 3/5; 162/1980] END leaf\_size=21, n\_neighbors=63;; score=0.562 total time=0.0s  
 [CV 4/5; 162/1980] START leaf\_size=21, n\_neighbors=63...  
 [CV 3/5; 153/1980] END leaf\_size=21, n\_neighbors=54;; score=0.562 total time=0.1s  
 [CV 4/5; 153/1980] START leaf\_size=21, n\_neighbors=54...  
 [CV 2/5; 165/1980] END leaf\_size=21, n\_neighbors=66;; score=0.609 total time=0.0s

```

[CV 3/5; 165/1980] START leaf_size=21, n_neighbors=66...
[CV 1/5; 152/1980] END leaf_size=21, n_neighbors=53;; score=0.678 total time=
0.0s
[CV 1/5; 155/1980] END leaf_size=21, n_neighbors=56;; score=0.670 total time=
0.0s
[CV 2/5; 155/1980] START leaf_size=21, n_neighbors=56...
[CV 4/5; 166/1980] START leaf_size=21, n_neighbors=67...
[CV 2/5; 164/1980] END leaf_size=21, n_neighbors=65;; score=0.616 total time=
0.0s
[CV 3/5; 164/1980] START leaf_size=21, n_neighbors=65...
[CV 2/5; 161/1980] END leaf_size=21, n_neighbors=62;; score=0.603 total time=
0.0s
[CV 3/5; 161/1980] START leaf_size=21, n_neighbors=62...
[CV 4/5; 156/1980] END leaf_size=21, n_neighbors=57;; score=0.597 total time=
0.0s
[CV 5/5; 156/1980] START leaf_size=21, n_neighbors=57...
[CV 3/5; 159/1980] END leaf_size=21, n_neighbors=60;; score=0.553 total time=
0.0s
[CV 4/5; 159/1980] START leaf_size=21, n_neighbors=60...
[CV 1/5; 158/1980] END leaf_size=21, n_neighbors=59;; score=0.670 total time=
0.0s
[CV 2/5; 158/1980] START leaf_size=21, n_neighbors=59...
[CV 4/5; 162/1980] END leaf_size=21, n_neighbors=63;; score=0.604 total time=
0.0s
[CV 5/5; 162/1980] START leaf_size=21, n_neighbors=63...
[CV 3/5; 165/1980] END leaf_size=21, n_neighbors=66;; score=0.566 total time=
0.0s
[CV 4/5; 165/1980] START leaf_size=21, n_neighbors=66...
[CV 2/5; 155/1980] END leaf_size=21, n_neighbors=56;; score=0.609 total time=
0.0s
[CV 2/5; 168/1980] START leaf_size=21, n_neighbors=69...
[CV 3/5; 161/1980] END leaf_size=21, n_neighbors=62;; score=0.555 total time=
0.0s
[CV 4/5; 161/1980] START leaf_size=21, n_neighbors=62...
[CV 3/5; 164/1980] END leaf_size=21, n_neighbors=65;; score=0.566 total time=
0.0s
[CV 4/5; 164/1980] START leaf_size=21, n_neighbors=65...
[CV 5/5; 156/1980] END leaf_size=21, n_neighbors=57;; score=0.610 total time=
0.0s
[CV 5/5; 169/1980] START leaf_size=21, n_neighbors=70...
[CV 5/5; 162/1980] END leaf_size=21, n_neighbors=63;; score=0.615 total time=
0.0s
[CV 1/5; 163/1980] START leaf_size=21,
n_neighbors=64...[CV 4/5; 166/1980] END leaf_size=21,
n_neighbors=67;; score=0.587 total time= 0.1s

[CV 5/5; 166/1980] START leaf_size=21, n_neighbors=67...
[CV 2/5; 158/1980] END leaf_size=21, n_neighbors=59;; score=0.609 total time=

```

```

0.0s
[CV 3/5; 158/1980] START leaf_size=21, n_neighbors=59...
[CV 4/5; 153/1980] END leaf_size=21, n_neighbors=54;; score=0.595 total time=
0.1s
[CV 4/5; 165/1980] END leaf_size=21, n_neighbors=66;; score=0.574 total time=
0.0s
[CV 5/5; 165/1980] START leaf_size=21, n_neighbors=66...
[CV 3/5; 171/1980] START leaf_size=21, n_neighbors=72...
[CV 4/5; 159/1980] END leaf_size=21, n_neighbors=60;; score=0.602 total time=
0.0s[CV 2/5; 168/1980] END leaf_size=21, n_neighbors=69;; score=0.609 total
time= 0.0s
[CV 3/5; 168/1980] START leaf_size=21, n_neighbors=69...

[CV 5/5; 159/1980] START leaf_size=21, n_neighbors=60...
[CV 4/5; 161/1980] END leaf_size=21, n_neighbors=62;; score=0.600 total time=
0.0s
[CV 4/5; 164/1980] END leaf_size=21, n_neighbors=65;; score=0.591 total time=
0.0s
[CV 5/5; 164/1980] START leaf_size=21, n_neighbors=65...
[CV 1/5; 173/1980] START leaf_size=21, n_neighbors=74...
[CV 5/5; 169/1980] END leaf_size=21, n_neighbors=70;; score=0.606 total time=
0.0s
[CV 1/5; 170/1980] START leaf_size=21, n_neighbors=71...
[CV 1/5; 163/1980] END leaf_size=21, n_neighbors=64;; score=0.663 total time=
0.0s
[CV 2/5; 163/1980] START leaf_size=21, n_neighbors=64...
[CV 5/5; 166/1980] END leaf_size=21, n_neighbors=67;; score=0.613 total time=
0.0s
[CV 1/5; 167/1980] START leaf_size=21, n_neighbors=68...
[CV 3/5; 168/1980] END leaf_size=21, n_neighbors=69;; score=0.568 total time=
0.0s
[CV 4/5; 168/1980] START leaf_size=21, n_neighbors=69...
[CV 5/5; 165/1980] END leaf_size=21, n_neighbors=66;; score=0.613 total time=
0.0s
[CV 1/5; 166/1980] START leaf_size=21, n_neighbors=67...
[CV 3/5; 158/1980] END leaf_size=21, n_neighbors=59;; score=0.553 total time=
0.0s
[CV 4/5; 174/1980] START leaf_size=21,
n_neighbors=75...[CV 5/5; 159/1980] END leaf_size=21,
n_neighbors=60;; score=0.604 total time= 0.0s
[CV 1/5; 160/1980] START leaf_size=21, n_neighbors=61...

[CV 5/5; 164/1980] END leaf_size=21, n_neighbors=65;; score=0.621 total time=
0.0s
[CV 2/5; 176/1980] START leaf_size=21, n_neighbors=77...
[CV 1/5; 173/1980] END leaf_size=21, n_neighbors=74;; score=0.661 total time=
0.0s
[CV 2/5; 173/1980] START leaf_size=21, n_neighbors=74...

```



[CV 1/5; 170/1980] END leaf\_size=21, n\_neighbors=71;; score=0.670 total time=0.0s  
 [CV 2/5; 170/1980] START leaf\_size=21, n\_neighbors=71...  
 [CV 2/5; 163/1980] END leaf\_size=21, n\_neighbors=64;; score=0.609 total time=0.0s  
 [CV 5/5; 177/1980] START leaf\_size=21, n\_neighbors=78...  
 [CV 4/5; 168/1980] END leaf\_size=21, n\_neighbors=69;; score=0.582 total time=0.0s  
 [CV 5/5; 168/1980] START leaf\_size=21, n\_neighbors=69...  
 [CV 3/5; 171/1980] END leaf\_size=21, n\_neighbors=72;; score=0.562 total time=0.1s  
 [CV 4/5; 171/1980] START leaf\_size=21, n\_neighbors=72...  
 [CV 1/5; 167/1980] END leaf\_size=21, n\_neighbors=68;; score=0.667 total time=0.0s  
 [CV 2/5; 167/1980] START leaf\_size=21, n\_neighbors=68...  
 [CV 1/5; 166/1980] END leaf\_size=21, n\_neighbors=67;; score=0.663 total time=0.0s  
 [CV 2/5; 166/1980] START leaf\_size=21, n\_neighbors=67...  
 [CV 1/5; 160/1980] END leaf\_size=21, n\_neighbors=61;; score=0.665 total time=0.0s  
 [CV 2/5; 173/1980] END leaf\_size=21, n\_neighbors=74;; score=0.607 total time=0.0s  
 [CV 3/5; 173/1980] START leaf\_size=21, n\_neighbors=74...  
 [CV 2/5; 176/1980] END leaf\_size=21, n\_neighbors=77;; score=0.605 total time=0.0s  
 [CV 3/5; 176/1980] START leaf\_size=21,  
 n\_neighbors=77...[CV 3/5; 179/1980] START leaf\_size=21,  
 n\_neighbors=80...  
  
 [CV 2/5; 170/1980] END leaf\_size=21, n\_neighbors=71;; score=0.616 total time=0.0s  
 [CV 3/5; 170/1980] START leaf\_size=21, n\_neighbors=71...  
 [CV 4/5; 174/1980] END leaf\_size=21, n\_neighbors=75;; score=0.591 total time=0.0s  
 [CV 5/5; 174/1980] START leaf\_size=21, n\_neighbors=75...  
 [CV 5/5; 177/1980] END leaf\_size=21, n\_neighbors=78;; score=0.628 total time=0.0s  
 [CV 1/5; 178/1980] START leaf\_size=21, n\_neighbors=79...  
 [CV 5/5; 168/1980] END leaf\_size=21, n\_neighbors=69;; score=0.621 total time=0.0s  
 [CV 1/5; 169/1980] START leaf\_size=21, n\_neighbors=70...  
 [CV 2/5; 166/1980] END leaf\_size=21, n\_neighbors=67;; score=0.611 total time=0.0s  
 [CV 3/5; 166/1980] START leaf\_size=21, n\_neighbors=67...  
 [CV 2/5; 167/1980] END leaf\_size=21, n\_neighbors=68;; score=0.609 total time=0.0s  
 [CV 3/5; 173/1980] END leaf\_size=21, n\_neighbors=74;; score=0.557 total time=0.0s

[CV 3/5; 167/1980] START leaf\_size=21, n\_neighbors=68...  
 [CV 4/5; 173/1980] START leaf\_size=21, n\_neighbors=74...  
 [CV 3/5; 179/1980] END leaf\_size=21, n\_neighbors=80;; score=0.564 total time=0.0s  
 [CV 3/5; 170/1980] END leaf\_size=21, n\_neighbors=71;; score=0.562 total time= 0.0s  
 [CV 4/5; 170/1980] START leaf\_size=21, n\_neighbors=71...  
  
 [CV 3/5; 176/1980] END leaf\_size=21, n\_neighbors=77;; score=0.562 total time=0.0s  
 [CV 4/5; 179/1980] START leaf\_size=21, n\_neighbors=80...  
 [CV 4/5; 176/1980] START leaf\_size=21, n\_neighbors=77...  
 [CV 1/5; 169/1980] END leaf\_size=21, n\_neighbors=70;; score=0.663 total time=0.0s  
 [CV 2/5; 169/1980] START leaf\_size=21, n\_neighbors=70...  
 [CV 4/5; 171/1980] END leaf\_size=21, n\_neighbors=72;; score=0.593 total time=0.1s  
 [CV 5/5; 171/1980] START leaf\_size=21, n\_neighbors=72...  
 [CV 1/5; 178/1980] END leaf\_size=21, n\_neighbors=79;; score=0.659 total time=0.0s  
 [CV 2/5; 178/1980] START leaf\_size=21, n\_neighbors=79...  
 [CV 5/5; 174/1980] END leaf\_size=21, n\_neighbors=75;; score=0.632 total time=0.0s  
 [CV 1/5; 175/1980] START leaf\_size=21, n\_neighbors=76...  
 [CV 3/5; 166/1980] END leaf\_size=21, n\_neighbors=67;; score=0.564 total time=0.0s  
 [CV 1/5; 181/1980] START leaf\_size=21, n\_neighbors=82...  
 [CV 4/5; 173/1980] END leaf\_size=21, n\_neighbors=74;; score=0.591 total time=0.0s  
 [CV 5/5; 173/1980] START leaf\_size=21, n\_neighbors=74...  
 [CV 4/5; 170/1980] END leaf\_size=21, n\_neighbors=71;; score=0.587 total time=0.0s  
 [CV 5/5; 170/1980] START leaf\_size=21, n\_neighbors=71...  
 [CV 4/5; 176/1980] END leaf\_size=21, n\_neighbors=77;; score=0.580 total time=0.0s  
 [CV 5/5; 176/1980] START leaf\_size=21, n\_neighbors=77...  
 [CV 4/5; 179/1980] END leaf\_size=21, n\_neighbors=80;; score=0.584 total time=0.0s  
 [CV 5/5; 179/1980] START leaf\_size=21, n\_neighbors=80...  
 [CV 2/5; 169/1980] END leaf\_size=21, n\_neighbors=70;; score=0.607 total time=0.0s  
 [CV 3/5; 169/1980] START leaf\_size=21, n\_neighbors=70...  
 [CV 3/5; 167/1980] END leaf\_size=21, n\_neighbors=68;; score=0.566 total time=0.0s  
 [CV 4/5; 167/1980] START leaf\_size=21, n\_neighbors=68...  
 [CV 2/5; 178/1980] END leaf\_size=21, n\_neighbors=79;; score=0.598 total time=0.0s  
 [CV 3/5; 178/1980] START leaf\_size=21, n\_neighbors=79...  
 [CV 1/5; 181/1980] END leaf\_size=21, n\_neighbors=82;; score=0.659 total time=

```

0.0s
[CV 2/5; 181/1980] START leaf_size=21, n_neighbors=82...
[CV 5/5; 173/1980] END leaf_size=21, n_neighbors=74;; score=0.623 total time=
0.0s
[CV 1/5; 174/1980] START leaf_size=21, n_neighbors=75...
[CV 5/5; 170/1980] END leaf_size=21, n_neighbors=71;; score=0.613 total time=
0.0s
[CV 1/5; 171/1980] START leaf_size=21, n_neighbors=72...
[CV 5/5; 176/1980] END leaf_size=21, n_neighbors=77;; score=0.617 total time=
0.0s
[CV 1/5; 177/1980] START leaf_size=21, n_neighbors=78...
[CV 1/5; 175/1980] END leaf_size=21, n_neighbors=76;; score=0.667 total time=
0.1s
[CV 2/5; 175/1980] START leaf_size=21, n_neighbors=76...
[CV 5/5; 171/1980] END leaf_size=21, n_neighbors=72;; score=0.613 total time=
0.1s
[CV 1/5; 172/1980] START leaf_size=21, n_neighbors=73...
[CV 3/5; 169/1980] END leaf_size=21, n_neighbors=70;; score=0.559 total time=
0.0s
[CV 4/5; 169/1980] START leaf_size=21, n_neighbors=70...
[CV 5/5; 179/1980] END leaf_size=21, n_neighbors=80;; score=0.628 total time=
0.0s[CV 4/5; 167/1980] END leaf_size=21, n_neighbors=68;; score=0.576 total
time= 0.0s
[CV 5/5; 167/1980] START leaf_size=21, n_neighbors=68...

[CV 3/5; 178/1980] END leaf_size=21, n_neighbors=79;; score=0.557 total time=
0.0s
[CV 4/5; 178/1980] START leaf_size=21, n_neighbors=79...
[CV 1/5; 180/1980] START leaf_size=21, n_neighbors=81...
[CV 1/5; 174/1980] END leaf_size=21, n_neighbors=75;; score=0.667 total time=
0.0s
[CV 2/5; 174/1980] START leaf_size=21, n_neighbors=75...
[CV 2/5; 181/1980] END leaf_size=21, n_neighbors=82;; score=0.600 total time=
0.0s
[CV 3/5; 181/1980] START leaf_size=21, n_neighbors=82...
[CV 1/5; 171/1980] END leaf_size=21, n_neighbors=72;; score=0.663 total time=
0.0s
[CV 2/5; 171/1980] START leaf_size=21, n_neighbors=72...
[CV 1/5; 177/1980] END leaf_size=21, n_neighbors=78;; score=0.659 total time=
0.0s
[CV 2/5; 177/1980] START leaf_size=21, n_neighbors=78...
[CV 4/5; 169/1980] END leaf_size=21, n_neighbors=70;; score=0.589 total time=
0.0s
[CV 4/5; 182/1980] START leaf_size=21, n_neighbors=83...
[CV 1/5; 172/1980] END leaf_size=21, n_neighbors=73;; score=0.663 total time=
0.0s
[CV 2/5; 172/1980] START leaf_size=21, n_neighbors=73...
[CV 5/5; 167/1980] END leaf_size=21, n_neighbors=68;; score=0.615 total time=

```

0.0s  
 [CV 1/5; 168/1980] START leaf\_size=21, n\_neighbors=69...  
 [CV 4/5; 178/1980] END leaf\_size=21, n\_neighbors=79;; score=0.584 total time=  
 0.0s  
 [CV 5/5; 178/1980] START leaf\_size=21, n\_neighbors=79...  
 [CV 2/5; 174/1980] END leaf\_size=21, n\_neighbors=75;; score=0.603 total time=  
 0.0s  
 [CV 3/5; 174/1980] START leaf\_size=21, n\_neighbors=75...  
 [CV 3/5; 181/1980] END leaf\_size=21, n\_neighbors=82;; score=0.566 total time=  
 0.0s  
 [CV 4/5; 181/1980] START leaf\_size=21, n\_neighbors=82...  
 [CV 2/5; 175/1980] END leaf\_size=21, n\_neighbors=76;; score=0.603 total time=  
 0.1s  
 [CV 3/5; 175/1980] START leaf\_size=21, n\_neighbors=76...  
 [CV 2/5; 171/1980] END leaf\_size=21, n\_neighbors=72;; score=0.607 total time=  
 0.0s  
 [CV 2/5; 184/1980] START leaf\_size=21, n\_neighbors=85...  
 [CV 1/5; 180/1980] END leaf\_size=21, n\_neighbors=81;; score=0.659 total time=  
 0.1s  
 [CV 2/5; 180/1980] START leaf\_size=21, n\_neighbors=81...  
 [CV 2/5; 177/1980] END leaf\_size=21, n\_neighbors=78;; score=0.603 total time=  
 0.0s  
 [CV 3/5; 177/1980] START leaf\_size=21, n\_neighbors=78...  
 [CV 4/5; 182/1980] END leaf\_size=21, n\_neighbors=83;; score=0.584 total time=  
 0.0s  
 [CV 5/5; 182/1980] START leaf\_size=21, n\_neighbors=83...  
 [CV 5/5; 178/1980] END leaf\_size=21, n\_neighbors=79;; score=0.619 total time=  
 0.0s  
 [CV 1/5; 179/1980] START leaf\_size=21, n\_neighbors=80...  
 [CV 2/5; 172/1980] END leaf\_size=21, n\_neighbors=73;; score=0.605 total time=  
 0.0s  
 [CV 3/5; 172/1980] START leaf\_size=21, n\_neighbors=73...  
 [CV 1/5; 168/1980] END leaf\_size=21, n\_neighbors=69;; score=0.663 total time=  
 0.0s  
 [CV 5/5; 185/1980] START leaf\_size=21, n\_neighbors=86...  
 [CV 3/5; 174/1980] END leaf\_size=21, n\_neighbors=75;; score=0.555 total time=  
 0.0s  
 [CV 3/5; 187/1980] START leaf\_size=21, n\_neighbors=88...  
 [CV 4/5; 181/1980] END leaf\_size=21, n\_neighbors=82;; score=0.587 total time=  
 0.0s  
 [CV 5/5; 181/1980] START leaf\_size=21, n\_neighbors=82...  
 [CV 2/5; 184/1980] END leaf\_size=21, n\_neighbors=85;; score=0.600 total time=  
 0.0s  
 [CV 3/5; 184/1980] START leaf\_size=21, n\_neighbors=85...  
 [CV 3/5; 177/1980] END leaf\_size=21, n\_neighbors=78;; score=0.555 total time=  
 0.0s  
 [CV 4/5; 177/1980] START leaf\_size=21, n\_neighbors=78...  
 [CV 5/5; 182/1980] END leaf\_size=21, n\_neighbors=83;; score=0.619 total time=

0.0s  
 [CV 1/5; 183/1980] START leaf\_size=21, n\_neighbors=84...  
 [CV 3/5; 175/1980] END leaf\_size=21, n\_neighbors=76;; score=0.557 total time=  
 0.1s  
 [CV 4/5; 175/1980] START leaf\_size=21, n\_neighbors=76...  
 [CV 1/5; 179/1980] END leaf\_size=21, n\_neighbors=80;; score=0.659 total time=  
 0.0s  
 [CV 2/5; 179/1980] START leaf\_size=21, n\_neighbors=80...  
 [CV 5/5; 185/1980] END leaf\_size=21, n\_neighbors=86;; score=0.623 total time=  
 0.0s  
 [CV 1/5; 186/1980] START leaf\_size=21, n\_neighbors=87...  
 [CV 3/5; 187/1980] END leaf\_size=21, n\_neighbors=88;; score=0.562 total time=  
 0.0s  
 [CV 4/5; 187/1980] START leaf\_size=21, n\_neighbors=88...  
 [CV 3/5; 172/1980] END leaf\_size=21, n\_neighbors=73;; score=0.566 total time=  
 0.0s  
 [CV 4/5; 172/1980] START leaf\_size=21, n\_neighbors=73...  
 [CV 2/5; 180/1980] END leaf\_size=21, n\_neighbors=81;; score=0.596 total time=  
 0.1s  
 [CV 3/5; 180/1980] START leaf\_size=21, n\_neighbors=81...  
 [CV 5/5; 181/1980] END leaf\_size=21, n\_neighbors=82;; score=0.630 total time=  
 0.0s  
 [CV 1/5; 182/1980] START leaf\_size=21, n\_neighbors=83...  
 [CV 3/5; 184/1980] END leaf\_size=21, n\_neighbors=85;; score=0.557 total time=  
 0.0s  
 [CV 4/5; 184/1980] START leaf\_size=21, n\_neighbors=85...  
 [CV 4/5; 177/1980] END leaf\_size=21, n\_neighbors=78;; score=0.571 total time=  
 0.0s  
 [CV 1/5; 183/1980] END leaf\_size=21, n\_neighbors=84;; score=0.654 total time=  
 0.0s  
 [CV 2/5; 183/1980] START leaf\_size=21, n\_neighbors=84...  
 [CV 1/5; 189/1980] START leaf\_size=21, n\_neighbors=90...  
 [CV 2/5; 179/1980] END leaf\_size=21, n\_neighbors=80;; score=0.594 total time=  
 0.0s  
 [CV 4/5; 190/1980] START leaf\_size=21, n\_neighbors=91...  
 [CV 4/5; 187/1980] END leaf\_size=21, n\_neighbors=88;; score=0.578 total time=  
 0.0s  
 [CV 5/5; 187/1980] START leaf\_size=21, n\_neighbors=88...  
 [CV 1/5; 186/1980] END leaf\_size=21, n\_neighbors=87;; score=0.650 total time=  
 0.0s  
 [CV 2/5; 186/1980] START leaf\_size=21, n\_neighbors=87...  
 [CV 1/5; 182/1980] END leaf\_size=21, n\_neighbors=83;; score=0.650 total time=  
 0.0s  
 [CV 2/5; 182/1980] START leaf\_size=21, n\_neighbors=83...  
 [CV 4/5; 175/1980] END leaf\_size=21, n\_neighbors=76;; score=0.578 total time=  
 0.1s  
 [CV 5/5; 175/1980] START leaf\_size=21, n\_neighbors=76...  
 [CV 4/5; 184/1980] END leaf\_size=21, n\_neighbors=85;; score=0.576 total time=

```

0.0s
[CV 5/5; 184/1980] START leaf_size=21, n_neighbors=85...
[CV 3/5; 180/1980] END leaf_size=21, n_neighbors=81;; score=0.562 total time=
0.0s[CV 4/5; 172/1980] END leaf_size=21, n_neighbors=73;; score=0.591 total
time= 0.0s

[CV 5/5; 172/1980] START leaf_size=21, n_neighbors=73...
[CV 4/5; 180/1980] START leaf_size=21, n_neighbors=81...
[CV 2/5; 183/1980] END leaf_size=21, n_neighbors=84;; score=0.603 total time=
0.0s
[CV 3/5; 183/1980] START leaf_size=21, n_neighbors=84...
[CV 1/5; 189/1980] END leaf_size=21, n_neighbors=90;; score=0.650 total time=
0.0s
[CV 2/5; 189/1980] START leaf_size=21, n_neighbors=90...
[CV 4/5; 190/1980] END leaf_size=21, n_neighbors=91;; score=0.591 total time=
0.0s
[CV 5/5; 190/1980] START leaf_size=21, n_neighbors=91...
[CV 5/5; 187/1980] END leaf_size=21, n_neighbors=88;; score=0.617 total time=
0.0s
[CV 1/5; 188/1980] START leaf_size=21, n_neighbors=89...
[CV 2/5; 186/1980] END leaf_size=21, n_neighbors=87;; score=0.603 total time=
0.0s
[CV 3/5; 186/1980] START leaf_size=21, n_neighbors=87...
[CV 2/5; 182/1980] END leaf_size=21, n_neighbors=83;; score=0.596 total time=
0.0s
[CV 3/5; 182/1980] START leaf_size=21, n_neighbors=83...
[CV 5/5; 184/1980] END leaf_size=21, n_neighbors=85;; score=0.626 total time=
0.0s
[CV 1/5; 185/1980] START leaf_size=21, n_neighbors=86...
[CV 5/5; 172/1980] END leaf_size=21, n_neighbors=73;; score=0.628 total time=
0.0s
[CV 3/5; 183/1980] END leaf_size=21, n_neighbors=84;; score=0.555 total time=
0.0s
[CV 4/5; 183/1980] START leaf_size=21, n_neighbors=84...
[CV 2/5; 192/1980] START leaf_size=21, n_neighbors=93...
[CV 4/5; 180/1980] END leaf_size=21, n_neighbors=81;; score=0.587 total time=
0.0s
[CV 5/5; 180/1980] START leaf_size=21, n_neighbors=81...
[CV 2/5; 189/1980] END leaf_size=21, n_neighbors=90;; score=0.600 total time=
0.0s
[CV 3/5; 189/1980] START leaf_size=21, n_neighbors=90...
[CV 5/5; 175/1980] END leaf_size=21, n_neighbors=76;; score=0.621 total time=
0.1s
[CV 1/5; 176/1980] START leaf_size=21, n_neighbors=77...
[CV 5/5; 190/1980] END leaf_size=21, n_neighbors=91;; score=0.623 total time=
0.0s
[CV 1/5; 191/1980] START leaf_size=21, n_neighbors=92...
[CV 1/5; 188/1980] END leaf_size=21, n_neighbors=89;; score=0.646 total time=

```

0.0s  
 [CV 2/5; 188/1980] START leaf\_size=21, n\_neighbors=89...  
 [CV 3/5; 186/1980] END leaf\_size=21, n\_neighbors=87;; score=0.562 total time=  
 0.0s  
 [CV 4/5; 186/1980] START leaf\_size=21, n\_neighbors=87...  
 [CV 3/5; 182/1980] END leaf\_size=21, n\_neighbors=83;; score=0.564 total time=  
 0.0s  
 [CV 1/5; 185/1980] END leaf\_size=21, n\_neighbors=86;; score=0.648 total time=  
 0.0s  
 [CV 2/5; 185/1980] START leaf\_size=21, n\_neighbors=86...  
 [CV 5/5; 193/1980] START leaf\_size=21, n\_neighbors=94...  
 [CV 4/5; 183/1980] END leaf\_size=21, n\_neighbors=84;; score=0.582 total time=  
 0.0s  
 [CV 5/5; 183/1980] START leaf\_size=21, n\_neighbors=84...  
 [CV 3/5; 189/1980] END leaf\_size=21, n\_neighbors=90;; score=0.564 total time=  
 0.0s  
 [CV 4/5; 189/1980] START leaf\_size=21, n\_neighbors=90...  
 [CV 2/5; 188/1980] END leaf\_size=21, n\_neighbors=89;; score=0.600 total time=  
 0.0s  
 [CV 3/5; 188/1980] START leaf\_size=21, n\_neighbors=89...  
 [CV 1/5; 191/1980] END leaf\_size=21, n\_neighbors=92;; score=0.646 total time=  
 0.0s  
 [CV 2/5; 191/1980] START leaf\_size=21, n\_neighbors=92...  
 [CV 1/5; 176/1980] END leaf\_size=21, n\_neighbors=77;; score=0.667 total time=  
 0.0s  
 [CV 2/5; 192/1980] END leaf\_size=21, n\_neighbors=93;; score=0.603 total time=  
 0.0s  
 [CV 3/5; 195/1980] START leaf\_size=21, n\_neighbors=96...  
 [CV 3/5; 192/1980] START leaf\_size=21, n\_neighbors=93...  
 [CV 4/5; 186/1980] END leaf\_size=21, n\_neighbors=87;; score=0.584 total time=  
 0.0s  
 [CV 5/5; 186/1980] START leaf\_size=21, n\_neighbors=87...  
 [CV 5/5; 180/1980] END leaf\_size=21, n\_neighbors=81;; score=0.626 total time=  
 0.1s  
 [CV 2/5; 185/1980] END leaf\_size=21, n\_neighbors=86;; score=0.598 total time=  
 0.0s  
 [CV 5/5; 193/1980] END leaf\_size=21, n\_neighbors=94;; score=0.608 total time=  
 0.0s  
 [CV 3/5; 185/1980] START leaf\_size=21, n\_neighbors=86...  
 [CV 1/5; 194/1980] START leaf\_size=21, n\_neighbors=95...  
 [CV 1/5; 197/1980] START leaf\_size=21, n\_neighbors=98...  
 [CV 5/5; 183/1980] END leaf\_size=21, n\_neighbors=84;; score=0.626 total time=  
 0.0s  
 [CV 1/5; 184/1980] START leaf\_size=21, n\_neighbors=85...  
 [CV 3/5; 188/1980] END leaf\_size=21, n\_neighbors=89;; score=0.564 total time=  
 0.0s  
 [CV 4/5; 188/1980] START leaf\_size=21, n\_neighbors=89...  
 [CV 4/5; 189/1980] END leaf\_size=21, n\_neighbors=90;; score=0.580 total time=

```

0.0s
[CV 5/5; 189/1980] START leaf_size=21, n_neighbors=90...
[CV 2/5; 191/1980] END leaf_size=21, n_neighbors=92;; score=0.598 total time=
0.0s
[CV 3/5; 191/1980] START leaf_size=21, n_neighbors=92...
[CV 5/5; 186/1980] END leaf_size=21, n_neighbors=87;; score=0.619 total time=
0.0s
[CV 1/5; 187/1980] START leaf_size=21, n_neighbors=88...
[CV 3/5; 185/1980] END leaf_size=21, n_neighbors=86;; score=0.559 total time=
0.0s
[CV 4/5; 185/1980] START leaf_size=21, n_neighbors=86...
[CV 3/5; 192/1980] END leaf_size=21, n_neighbors=93;; score=0.564 total time=
0.0s
[CV 4/5; 192/1980] START leaf_size=21,
n_neighbors=93...[CV 1/5; 194/1980] END leaf_size=21,
n_neighbors=95;; score=0.644 total time= 0.0s

[CV 2/5; 194/1980] START leaf_size=21, n_neighbors=95...
[CV 1/5; 184/1980] END leaf_size=21, n_neighbors=85;; score=0.650 total time=
0.0s
[CV 4/5; 198/1980] START leaf_size=21, n_neighbors=99...
[CV 1/5; 197/1980] END leaf_size=21, n_neighbors=98;; score=0.635 total time=
0.0s
[CV 2/5; 197/1980] START leaf_size=21, n_neighbors=98...
[CV 4/5; 188/1980] END leaf_size=21, n_neighbors=89;; score=0.591 total time=
0.0s
[CV 5/5; 188/1980] START leaf_size=21, n_neighbors=89...
[CV 5/5; 189/1980] END leaf_size=21, n_neighbors=90;; score=0.617 total time=
0.0s
[CV 1/5; 190/1980] START leaf_size=21, n_neighbors=91...
[CV 3/5; 191/1980] END leaf_size=21, n_neighbors=92;; score=0.564 total time=
0.0s
[CV 4/5; 191/1980] START leaf_size=21, n_neighbors=92...
[CV 3/5; 195/1980] END leaf_size=21, n_neighbors=96;; score=0.564 total time=
0.1s
[CV 4/5; 195/1980] START leaf_size=21, n_neighbors=96...
[CV 1/5; 187/1980] END leaf_size=21, n_neighbors=88;; score=0.652 total time=
0.0s
[CV 2/5; 187/1980] START leaf_size=21, n_neighbors=88...
[CV 4/5; 185/1980] END leaf_size=21, n_neighbors=86;; score=0.580 total time=
0.0s
[CV 2/5; 200/1980] START leaf_size=22, n_neighbors=2...
[CV 2/5; 194/1980] END leaf_size=21, n_neighbors=95;; score=0.603 total time=
0.0s
[CV 3/5; 194/1980] START leaf_size=21, n_neighbors=95...
[CV 4/5; 192/1980] END leaf_size=21, n_neighbors=93;; score=0.587 total time=
0.0s
[CV 5/5; 192/1980] START leaf_size=21, n_neighbors=93...

```



[CV 4/5; 198/1980] END leaf\_size=21, n\_neighbors=99;; score=0.589 total time=0.0s  
 [CV 5/5; 198/1980] START leaf\_size=21, n\_neighbors=99...  
 [CV 5/5; 188/1980] END leaf\_size=21, n\_neighbors=89;; score=0.621 total time=0.0s  
 [CV 5/5; 201/1980] START leaf\_size=22, n\_neighbors=3...  
 [CV 1/5; 190/1980] END leaf\_size=21, n\_neighbors=91;; score=0.648 total time=0.0s  
 [CV 2/5; 190/1980] START leaf\_size=21, n\_neighbors=91...  
 [CV 2/5; 200/1980] END leaf\_size=22, n\_neighbors=2;; score=0.579 total time=0.0s  
 [CV 3/5; 200/1980] START leaf\_size=22, n\_neighbors=2...  
 [CV 4/5; 191/1980] END leaf\_size=21, n\_neighbors=92;; score=0.582 total time=0.0s  
 [CV 5/5; 191/1980] START leaf\_size=21, n\_neighbors=92...  
 [CV 2/5; 197/1980] END leaf\_size=21, n\_neighbors=98;; score=0.596 total time=0.0s  
 [CV 3/5; 197/1980] START leaf\_size=21, n\_neighbors=98...  
 [CV 2/5; 187/1980] END leaf\_size=21, n\_neighbors=88;; score=0.600 total time=0.0s  
 [CV 3/5; 203/1980] START leaf\_size=22, n\_neighbors=5...  
 [CV 4/5; 195/1980] END leaf\_size=21, n\_neighbors=96;; score=0.582 total time=0.0s  
 [CV 5/5; 195/1980] START leaf\_size=21, n\_neighbors=96...  
 [CV 5/5; 201/1980] END leaf\_size=22, n\_neighbors=3;; score=0.593 total time=0.0s  
 [CV 1/5; 202/1980] START leaf\_size=22, n\_neighbors=4...  
 [CV 3/5; 194/1980] END leaf\_size=21, n\_neighbors=95;; score=0.566 total time=0.0s  
 [CV 3/5; 200/1980] END leaf\_size=22, n\_neighbors=2;; score=0.512 total time=0.0s  
 [CV 4/5; 200/1980] START leaf\_size=22, n\_neighbors=2...  
  
 [CV 4/5; 194/1980] START leaf\_size=21, n\_neighbors=95...  
 [CV 5/5; 198/1980] END leaf\_size=21, n\_neighbors=99;; score=0.610 total time=0.0s  
 [CV 1/5; 199/1980] START leaf\_size=22, n\_neighbors=1...  
 [CV 5/5; 192/1980] END leaf\_size=21, n\_neighbors=93;; score=0.617 total time=0.0s  
 [CV 1/5; 193/1980] START leaf\_size=21, n\_neighbors=94...  
 [CV 3/5; 203/1980] END leaf\_size=22, n\_neighbors=5;; score=0.536 total time=0.0s  
 [CV 4/5; 203/1980] START leaf\_size=22, n\_neighbors=5...  
 [CV 1/5; 202/1980] END leaf\_size=22, n\_neighbors=4;; score=0.562 total time=0.0s  
 [CV 2/5; 202/1980] START leaf\_size=22, n\_neighbors=4...  
 [CV 2/5; 190/1980] END leaf\_size=21, n\_neighbors=91;; score=0.605 total time=0.0s  
 [CV 3/5; 190/1980] START leaf\_size=21, n\_neighbors=91...

[CV 4/5; 200/1980] END leaf\_size=22, n\_neighbors=2;; score=0.571 total time=0.0s  
 [CV 5/5; 200/1980] START leaf\_size=22, n\_neighbors=2...  
 [CV 5/5; 191/1980] END leaf\_size=21, n\_neighbors=92;; score=0.621 total time=0.0s  
 [CV 1/5; 192/1980] START leaf\_size=21, n\_neighbors=93...  
 [CV 1/5; 199/1980] END leaf\_size=22, n\_neighbors=1;; score=0.516 total time=0.0s  
 [CV 2/5; 199/1980] START leaf\_size=22, n\_neighbors=1...  
 [CV 2/5; 202/1980] END leaf\_size=22, n\_neighbors=4;; score=0.581 total time=0.0s  
 [CV 3/5; 202/1980] START leaf\_size=22, n\_neighbors=4...  
 [CV 4/5; 203/1980] END leaf\_size=22, n\_neighbors=5;; score=0.589 total time=0.0s  
 [CV 5/5; 203/1980] START leaf\_size=22, n\_neighbors=5...  
 [CV 3/5; 197/1980] END leaf\_size=21, n\_neighbors=98;; score=0.562 total time=0.0s  
 [CV 4/5; 197/1980] START leaf\_size=21, n\_neighbors=98...  
 [CV 4/5; 194/1980] END leaf\_size=21, n\_neighbors=95;; score=0.584 total time=0.0s  
 [CV 5/5; 200/1980] END leaf\_size=22, n\_neighbors=2;; score=0.574 total time=0.0s  
 [CV 1/5; 201/1980] START leaf\_size=22, n\_neighbors=3...  
  
 [CV 5/5; 195/1980] END leaf\_size=21, n\_neighbors=96;; score=0.604 total time=0.0s  
 [CV 1/5; 196/1980] START leaf\_size=21, n\_neighbors=97...  
 [CV 5/5; 194/1980] START leaf\_size=21, n\_neighbors=95...  
 [CV 2/5; 199/1980] END leaf\_size=22, n\_neighbors=1;; score=0.568 total time=0.0s  
 [CV 3/5; 199/1980] START leaf\_size=22, n\_neighbors=1...  
 [CV 3/5; 190/1980] END leaf\_size=21, n\_neighbors=91;; score=0.564 total time=0.0s  
 [CV 3/5; 202/1980] END leaf\_size=22, n\_neighbors=4;; score=0.544 total time=0.0s  
 [CV 4/5; 202/1980] START leaf\_size=22, n\_neighbors=4...  
 [CV 5/5; 203/1980] END leaf\_size=22, n\_neighbors=5;; score=0.591 total time=0.0s  
 [CV 1/5; 204/1980] START leaf\_size=22, n\_neighbors=6...  
 [CV 1/5; 193/1980] END leaf\_size=21, n\_neighbors=94;; score=0.644 total time=0.0s  
 [CV 2/5; 193/1980] START leaf\_size=21, n\_neighbors=94...  
 [CV 1/5; 201/1980] END leaf\_size=22, n\_neighbors=3;; score=0.557 total time=0.0s  
 [CV 2/5; 201/1980] START leaf\_size=22, n\_neighbors=3...  
 [CV 1/5; 205/1980] START leaf\_size=22, n\_neighbors=7...  
 [CV 3/5; 199/1980] END leaf\_size=22, n\_neighbors=1;; score=0.490 total time=0.0s  
 [CV 4/5; 199/1980] START leaf\_size=22, n\_neighbors=1...

[CV 1/5; 192/1980] END leaf\_size=21, n\_neighbors=93;; score=0.646 total time=0.0s  
 [CV 4/5; 202/1980] END leaf\_size=22, n\_neighbors=4;; score=0.580 total time=0.0s  
 [CV 5/5; 202/1980] START leaf\_size=22, n\_neighbors=4...  
 [CV 4/5; 206/1980] START leaf\_size=22, n\_neighbors=8...  
 [CV 1/5; 204/1980] END leaf\_size=22, n\_neighbors=6;; score=0.570 total time=0.0s  
 [CV 2/5; 204/1980] START leaf\_size=22, n\_neighbors=6...  
 [CV 5/5; 194/1980] END leaf\_size=21, n\_neighbors=95;; score=0.608 total time=0.0s  
 [CV 1/5; 195/1980] START leaf\_size=21, n\_neighbors=96...  
 [CV 4/5; 197/1980] END leaf\_size=21, n\_neighbors=98;; score=0.584 total time=0.0s  
 [CV 5/5; 197/1980] START leaf\_size=21, n\_neighbors=98...  
 [CV 1/5; 205/1980] END leaf\_size=22, n\_neighbors=7;; score=0.568 total time=0.0s  
 [CV 2/5; 205/1980] START leaf\_size=22, n\_neighbors=7...  
 [CV 2/5; 201/1980] END leaf\_size=22, n\_neighbors=3;; score=0.579 total time=0.0s  
 [CV 3/5; 201/1980] START leaf\_size=22, n\_neighbors=3...  
 [CV 1/5; 196/1980] END leaf\_size=21, n\_neighbors=97;; score=0.641 total time=0.0s  
 [CV 2/5; 196/1980] START leaf\_size=21, n\_neighbors=97...  
 [CV 4/5; 199/1980] END leaf\_size=22, n\_neighbors=1;; score=0.539 total time=0.0s  
 [CV 5/5; 199/1980] START leaf\_size=22, n\_neighbors=1...  
 [CV 5/5; 202/1980] END leaf\_size=22, n\_neighbors=4;; score=0.593 total time=0.0s  
 [CV 1/5; 203/1980] START leaf\_size=22, n\_neighbors=5...  
 [CV 4/5; 206/1980] END leaf\_size=22, n\_neighbors=8;; score=0.617 total time=0.0s  
 [CV 5/5; 206/1980] START leaf\_size=22, n\_neighbors=8...  
 [CV 2/5; 204/1980] END leaf\_size=22, n\_neighbors=6;; score=0.546 total time=0.0s  
 [CV 3/5; 204/1980] START leaf\_size=22, n\_neighbors=6...  
 [CV 2/5; 193/1980] END leaf\_size=21, n\_neighbors=94;; score=0.600 total time=0.0s  
 [CV 3/5; 193/1980] START leaf\_size=21, n\_neighbors=94...  
 [CV 2/5; 205/1980] END leaf\_size=22, n\_neighbors=7;; score=0.559 total time=0.0s  
 [CV 3/5; 201/1980] END leaf\_size=22, n\_neighbors=3;; score=0.484 total time=0.0s  
 [CV 3/5; 205/1980] START leaf\_size=22, n\_neighbors=7...  
 [CV 4/5; 201/1980] START leaf\_size=22, n\_neighbors=3...  
 [CV 5/5; 199/1980] END leaf\_size=22, n\_neighbors=1;; score=0.567 total time=0.0s  
 [CV 1/5; 200/1980] START leaf\_size=22, n\_neighbors=2...

[CV 1/5; 203/1980] END leaf\_size=22, n\_neighbors=5;; score=0.546 total time=0.0s  
 [CV 2/5; 203/1980] START leaf\_size=22, n\_neighbors=5...  
 [CV 5/5; 206/1980] END leaf\_size=22, n\_neighbors=8;; score=0.608 total time=0.0s  
 [CV 1/5; 207/1980] START leaf\_size=22, n\_neighbors=9...  
 [CV 3/5; 204/1980] END leaf\_size=22, n\_neighbors=6;; score=0.555 total time=0.0s  
 [CV 4/5; 204/1980] START leaf\_size=22, n\_neighbors=6...  
 [CV 1/5; 195/1980] END leaf\_size=21, n\_neighbors=96;; score=0.637 total time=0.0s  
 [CV 2/5; 195/1980] START leaf\_size=21, n\_neighbors=96...[CV 2/5; 196/1980] END leaf\_size=21, n\_neighbors=97;; score=0.594 total time= 0.0s  
 [CV 3/5; 196/1980] START leaf\_size=21, n\_neighbors=97...  
 [CV 3/5; 205/1980] END leaf\_size=22, n\_neighbors=7;; score=0.551 total time=0.0s  
  
 [CV 4/5; 205/1980] START leaf\_size=22, n\_neighbors=7...  
 [CV 2/5; 203/1980] END leaf\_size=22, n\_neighbors=5;; score=0.562 total time=0.0s  
 [CV 5/5; 197/1980] END leaf\_size=21, n\_neighbors=98;; score=0.606 total time=0.0s  
 [CV 1/5; 198/1980] START leaf\_size=21, n\_neighbors=99...  
 [CV 4/5; 201/1980] END leaf\_size=22, n\_neighbors=3;; score=0.584 total time=0.0s  
 [CV 2/5; 208/1980] START leaf\_size=22, n\_neighbors=10...  
 [CV 5/5; 209/1980] START leaf\_size=22, n\_neighbors=11...  
 [CV 1/5; 200/1980] END leaf\_size=22, n\_neighbors=2;; score=0.566 total time=0.0s  
 [CV 3/5; 211/1980] START leaf\_size=22, n\_neighbors=13...  
 [CV 1/5; 207/1980] END leaf\_size=22, n\_neighbors=9;; score=0.592 total time=0.0s  
 [CV 2/5; 207/1980] START leaf\_size=22, n\_neighbors=9...  
 [CV 4/5; 204/1980] END leaf\_size=22, n\_neighbors=6;; score=0.578 total time=0.0s  
 [CV 5/5; 204/1980] START leaf\_size=22, n\_neighbors=6...  
 [CV 3/5; 193/1980] END leaf\_size=21, n\_neighbors=94;; score=0.562 total time=0.0s  
 [CV 4/5; 193/1980] START leaf\_size=21, n\_neighbors=94...  
 [CV 2/5; 208/1980] END leaf\_size=22, n\_neighbors=10;; score=0.568 total time=0.0s  
 [CV 3/5; 208/1980] START leaf\_size=22, n\_neighbors=10...  
 [CV 4/5; 205/1980] END leaf\_size=22, n\_neighbors=7;; score=0.584 total time=0.0s  
 [CV 5/5; 205/1980] START leaf\_size=22, n\_neighbors=7...  
 [CV 5/5; 209/1980] END leaf\_size=22, n\_neighbors=11;; score=0.606 total time=0.0s

[CV 1/5; 210/1980] START leaf\_size=22, n\_neighbors=12...  
 [CV 2/5; 207/1980] END leaf\_size=22, n\_neighbors=9;; score=0.570 total time=0.0s  
 [CV 3/5; 207/1980] START leaf\_size=22, n\_neighbors=9...  
 [CV 3/5; 211/1980] END leaf\_size=22, n\_neighbors=13;; score=0.553 total time=0.0s  
 [CV 4/5; 211/1980] START leaf\_size=22, n\_neighbors=13...  
 [CV 3/5; 196/1980] END leaf\_size=21, n\_neighbors=97;; score=0.564 total time=0.0s  
 [CV 4/5; 196/1980] START leaf\_size=21, n\_neighbors=97...  
 [CV 5/5; 204/1980] END leaf\_size=22, n\_neighbors=6;; score=0.582 total time=0.0s  
 [CV 1/5; 213/1980] START leaf\_size=22, n\_neighbors=15...  
 [CV 5/5; 205/1980] END leaf\_size=22, n\_neighbors=7;; score=0.613 total time=0.0s  
 [CV 1/5; 206/1980] START leaf\_size=22, n\_neighbors=8...  
 [CV 3/5; 208/1980] END leaf\_size=22, n\_neighbors=10;; score=0.549 total time=0.0s  
 [CV 4/5; 208/1980] START leaf\_size=22, n\_neighbors=10...  
 [CV 2/5; 195/1980] END leaf\_size=21, n\_neighbors=96;; score=0.598 total time=0.0s  
 [CV 1/5; 198/1980] END leaf\_size=21, n\_neighbors=99;; score=0.641 total time=0.0s  
 [CV 2/5; 198/1980] START leaf\_size=21, n\_neighbors=99...  
 [CV 3/5; 207/1980] END leaf\_size=22, n\_neighbors=9;; score=0.559 total time=0.0s  
 [CV 4/5; 207/1980] START leaf\_size=22, n\_neighbors=9...  
 [CV 4/5; 214/1980] START leaf\_size=22, n\_neighbors=16...  
 [CV 1/5; 210/1980] END leaf\_size=22, n\_neighbors=12;; score=0.648 total time=0.0s  
 [CV 2/5; 210/1980] START leaf\_size=22, n\_neighbors=12...  
 [CV 4/5; 211/1980] END leaf\_size=22, n\_neighbors=13;; score=0.574 total time=0.0s  
 [CV 5/5; 211/1980] START leaf\_size=22, n\_neighbors=13...  
 [CV 1/5; 213/1980] END leaf\_size=22, n\_neighbors=15;; score=0.637 total time=0.0s  
 [CV 2/5; 213/1980] START leaf\_size=22, n\_neighbors=15...  
 [CV 4/5; 208/1980] END leaf\_size=22, n\_neighbors=10;; score=0.597 total time=0.0s  
 [CV 5/5; 208/1980] START leaf\_size=22, n\_neighbors=10...  
 [CV 1/5; 206/1980] END leaf\_size=22, n\_neighbors=8;; score=0.568 total time=0.0s  
 [CV 2/5; 206/1980] START leaf\_size=22, n\_neighbors=8...  
 [CV 4/5; 193/1980] END leaf\_size=21, n\_neighbors=94;; score=0.582 total time=0.1s  
 [CV 4/5; 196/1980] END leaf\_size=21, n\_neighbors=97;; score=0.580 total time=0.0s  
 [CV 5/5; 196/1980] START leaf\_size=21, n\_neighbors=97...

[CV 2/5; 216/1980] START leaf\_size=22, n\_neighbors=18...  
 [CV 4/5; 207/1980] END leaf\_size=22, n\_neighbors=9;; score=0.589 total time=0.0s  
 [CV 5/5; 207/1980] START leaf\_size=22, n\_neighbors=9...  
 [CV 2/5; 210/1980] END leaf\_size=22, n\_neighbors=12;; score=0.581 total time=0.0s  
 [CV 3/5; 210/1980] START leaf\_size=22, n\_neighbors=12...  
 [CV 5/5; 211/1980] END leaf\_size=22, n\_neighbors=13;; score=0.591 total time=0.0s  
 [CV 1/5; 212/1980] START leaf\_size=22, n\_neighbors=14...  
 [CV 5/5; 208/1980] END leaf\_size=22, n\_neighbors=10;; score=0.615 total time=0.0s  
 [CV 1/5; 209/1980] START leaf\_size=22, n\_neighbors=11...  
 [CV 2/5; 213/1980] END leaf\_size=22, n\_neighbors=15;; score=0.570 total time=0.0s  
 [CV 4/5; 214/1980] END leaf\_size=22, n\_neighbors=16;; score=0.584 total time=0.0s  
 [CV 3/5; 213/1980] START leaf\_size=22, n\_neighbors=15...  
  
 [CV 5/5; 214/1980] START leaf\_size=22, n\_neighbors=16...  
 [CV 2/5; 206/1980] END leaf\_size=22, n\_neighbors=8;; score=0.551 total time=0.0s  
 [CV 3/5; 206/1980] START leaf\_size=22, n\_neighbors=8...  
 [CV 2/5; 198/1980] END leaf\_size=21, n\_neighbors=99;; score=0.598 total time=0.0s  
 [CV 3/5; 198/1980] START leaf\_size=21, n\_neighbors=99...  
 [CV 5/5; 207/1980] END leaf\_size=22, n\_neighbors=9;; score=0.613 total time=0.0s  
 [CV 1/5; 208/1980] START leaf\_size=22, n\_neighbors=10...  
 [CV 1/5; 209/1980] END leaf\_size=22, n\_neighbors=11;; score=0.624 total time=0.0s  
 [CV 2/5; 209/1980] START leaf\_size=22, n\_neighbors=11...  
 [CV 3/5; 210/1980] END leaf\_size=22, n\_neighbors=12;; score=0.546 total time=0.0s  
 [CV 2/5; 216/1980] END leaf\_size=22, n\_neighbors=18;; score=0.590 total time=0.0s  
 [CV 3/5; 216/1980] START leaf\_size=22, n\_neighbors=18...  
 [CV 4/5; 210/1980] START leaf\_size=22, n\_neighbors=12...  
  
 [CV 1/5; 212/1980] END leaf\_size=22, n\_neighbors=14;; score=0.644 total time=0.0s  
 [CV 2/5; 212/1980] START leaf\_size=22, n\_neighbors=14...  
 [CV 5/5; 196/1980] END leaf\_size=21, n\_neighbors=97;; score=0.602 total time=0.0s  
 [CV 3/5; 206/1980] END leaf\_size=22, n\_neighbors=8;; score=0.551 total time=0.0s  
 [CV 3/5; 213/1980] END leaf\_size=22, n\_neighbors=15;; score=0.557 total time=

0.0s  
 [CV 5/5; 217/1980] START leaf\_size=22, n\_neighbors=19...  
 [CV 4/5; 213/1980] START leaf\_size=22, n\_neighbors=15...  
 [CV 3/5; 219/1980] START leaf\_size=22, n\_neighbors=21...  
 [CV 5/5; 214/1980] END leaf\_size=22, n\_neighbors=16;; score=0.621 total time=  
 0.0s  
 [CV 1/5; 215/1980] START leaf\_size=22, n\_neighbors=17...  
 [CV 1/5; 208/1980] END leaf\_size=22, n\_neighbors=10;; score=0.611 total time=  
 0.0s  
 [CV 2/5; 209/1980] END leaf\_size=22, n\_neighbors=11;; score=0.579 total time=  
 0.0s  
 [CV 3/5; 209/1980] START leaf\_size=22, n\_neighbors=11...  
 [CV 4/5; 210/1980] END leaf\_size=22, n\_neighbors=12;; score=0.576 total time=  
 0.0s  
 [CV 5/5; 210/1980] START leaf\_size=22, n\_neighbors=12...  
 [CV 1/5; 221/1980] START leaf\_size=22, n\_neighbors=23...  
 [CV 2/5; 212/1980] END leaf\_size=22, n\_neighbors=14;; score=0.572 total time=  
 0.0s  
 [CV 3/5; 212/1980] START leaf\_size=22, n\_neighbors=14...  
 [CV 4/5; 213/1980] END leaf\_size=22, n\_neighbors=15;; score=0.584 total time=  
 0.0s  
 [CV 5/5; 213/1980] START leaf\_size=22, n\_neighbors=15...  
 [CV 3/5; 198/1980] END leaf\_size=21, n\_neighbors=99;; score=0.566 total time=  
 0.0s  
 [CV 4/5; 222/1980] START leaf\_size=22, n\_neighbors=24...  
 [CV 3/5; 219/1980] END leaf\_size=22, n\_neighbors=21;; score=0.559 total time=  
 0.0s  
 [CV 4/5; 219/1980] START leaf\_size=22, n\_neighbors=21...  
 [CV 3/5; 216/1980] END leaf\_size=22, n\_neighbors=18;; score=0.555 total time=  
 0.0s  
 [CV 4/5; 216/1980] START leaf\_size=22, n\_neighbors=18...  
 [CV 3/5; 209/1980] END leaf\_size=22, n\_neighbors=11;; score=0.551 total time=  
 0.0s  
 [CV 4/5; 209/1980] START leaf\_size=22, n\_neighbors=11...  
 [CV 5/5; 217/1980] END leaf\_size=22, n\_neighbors=19;; score=0.626 total time=  
 0.0s  
 [CV 1/5; 218/1980] START leaf\_size=22, n\_neighbors=20...  
 [CV 5/5; 210/1980] END leaf\_size=22, n\_neighbors=12;; score=0.613 total time=  
 0.0s  
 [CV 1/5; 211/1980] START leaf\_size=22, n\_neighbors=13...  
 [CV 5/5; 213/1980] END leaf\_size=22, n\_neighbors=15;; score=0.615 total time=  
 0.0s  
 [CV 1/5; 214/1980] START leaf\_size=22, n\_neighbors=16...  
 [CV 1/5; 215/1980] END leaf\_size=22, n\_neighbors=17;; score=0.631 total time=  
 0.0s  
 [CV 3/5; 212/1980] END leaf\_size=22, n\_neighbors=14;; score=0.544 total time=  
 0.0s  
 [CV 2/5; 215/1980] START leaf\_size=22, n\_neighbors=17...

[CV 4/5; 212/1980] START leaf\_size=22, n\_neighbors=14...  
 [CV 1/5; 221/1980] END leaf\_size=22, n\_neighbors=23;; score=0.646 total time=0.0s  
 [CV 2/5; 221/1980] START leaf\_size=22, n\_neighbors=23...  
 [CV 4/5; 209/1980] END leaf\_size=22, n\_neighbors=11;; score=0.589 total time=0.0s  
 [CV 4/5; 219/1980] END leaf\_size=22, n\_neighbors=21;; score=0.606 total time=0.0s  
 [CV 5/5; 219/1980] START leaf\_size=22, n\_neighbors=21...  
 [CV 2/5; 224/1980] START leaf\_size=22, n\_neighbors=26...  
 [CV 4/5; 222/1980] END leaf\_size=22, n\_neighbors=24;; score=0.597 total time=0.0s  
 [CV 5/5; 222/1980] START leaf\_size=22, n\_neighbors=24...  
 [CV 4/5; 216/1980] END leaf\_size=22, n\_neighbors=18;; score=0.600 total time=0.0s  
 [CV 5/5; 216/1980] START leaf\_size=22, n\_neighbors=18...  
 [CV 1/5; 218/1980] END leaf\_size=22, n\_neighbors=20;; score=0.618 total time=0.0s  
 [CV 2/5; 218/1980] START leaf\_size=22, n\_neighbors=20...  
 [CV 1/5; 211/1980] END leaf\_size=22, n\_neighbors=13;; score=0.633 total time=0.0s  
 [CV 2/5; 211/1980] START leaf\_size=22, n\_neighbors=13...  
 [CV 1/5; 214/1980] END leaf\_size=22, n\_neighbors=16;; score=0.637 total time=0.0s  
 [CV 2/5; 214/1980] START leaf\_size=22, n\_neighbors=16...  
 [CV 4/5; 212/1980] END leaf\_size=22, n\_neighbors=14;; score=0.584 total time=0.0s  
 [CV 5/5; 212/1980] START leaf\_size=22, n\_neighbors=14...  
 [CV 5/5; 219/1980] END leaf\_size=22, n\_neighbors=21;; score=0.621 total time=0.0s  
 [CV 1/5; 220/1980] START leaf\_size=22, n\_neighbors=22...  
 [CV 2/5; 221/1980] END leaf\_size=22, n\_neighbors=23;; score=0.583 total time=0.0s  
 [CV 3/5; 221/1980] START leaf\_size=22, n\_neighbors=23...  
 [CV 2/5; 224/1980] END leaf\_size=22, n\_neighbors=26;; score=0.600 total time=0.0s  
 [CV 3/5; 224/1980] START leaf\_size=22, n\_neighbors=26...  
 [CV 2/5; 215/1980] END leaf\_size=22, n\_neighbors=17;; score=0.568 total time=0.0s  
 [CV 3/5; 215/1980] START leaf\_size=22, n\_neighbors=17...  
 [CV 2/5; 211/1980] END leaf\_size=22, n\_neighbors=13;; score=0.570 total time=0.0s  
 [CV 5/5; 216/1980] END leaf\_size=22, n\_neighbors=18;; score=0.617 total time=0.0s  
 [CV 2/5; 218/1980] END leaf\_size=22, n\_neighbors=20;; score=0.583 total time=0.0s  
 [CV 1/5; 217/1980] START leaf\_size=22, n\_neighbors=19...  
 [CV 3/5; 218/1980] START leaf\_size=22, n\_neighbors=20...



[CV 5/5; 222/1980] END leaf\_size=22, n\_neighbors=24;; score=0.647 total time=0.0s  
 [CV 1/5; 223/1980] START leaf\_size=22, n\_neighbors=25...  
 [CV 5/5; 225/1980] START leaf\_size=22, n\_neighbors=27...  
 [CV 2/5; 214/1980] END leaf\_size=22, n\_neighbors=16;; score=0.575 total time=0.0s  
 [CV 3/5; 214/1980] START leaf\_size=22, n\_neighbors=16...  
 [CV 5/5; 212/1980] END leaf\_size=22, n\_neighbors=14;; score=0.606 total time=0.0s  
 [CV 3/5; 221/1980] END leaf\_size=22, n\_neighbors=23;; score=0.557 total time=0.0s  
 [CV 4/5; 221/1980] START leaf\_size=22, n\_neighbors=23...  
 [CV 3/5; 227/1980] START leaf\_size=22, n\_neighbors=29...  
 [CV 1/5; 220/1980] END leaf\_size=22, n\_neighbors=22;; score=0.622 total time=0.0s  
 [CV 3/5; 224/1980] END leaf\_size=22, n\_neighbors=26;; score=0.564 total time=0.0s  
 [CV 2/5; 220/1980] START leaf\_size=22, n\_neighbors=22...  
 [CV 4/5; 224/1980] START leaf\_size=22, n\_neighbors=26...  
 [CV 3/5; 215/1980] END leaf\_size=22, n\_neighbors=17;; score=0.564 total time=0.0s  
 [CV 4/5; 215/1980] START leaf\_size=22, n\_neighbors=17...  
 [CV 5/5; 225/1980] END leaf\_size=22, n\_neighbors=27;; score=0.630 total time=0.0s  
 [CV 1/5; 226/1980] START leaf\_size=22, n\_neighbors=28...  
 [CV 3/5; 218/1980] END leaf\_size=22, n\_neighbors=20;; score=0.553 total time=0.0s  
 [CV 4/5; 218/1980] START leaf\_size=22, n\_neighbors=20...  
 [CV 4/5; 221/1980] END leaf\_size=22, n\_neighbors=23;; score=0.600 total time=0.0s  
 [CV 5/5; 221/1980] START leaf\_size=22, n\_neighbors=23...  
 [CV 4/5; 224/1980] END leaf\_size=22, n\_neighbors=26;; score=0.593 total time=0.0s  
 [CV 5/5; 224/1980] START leaf\_size=22, n\_neighbors=26...  
 [CV 3/5; 227/1980] END leaf\_size=22, n\_neighbors=29;; score=0.577 total time=0.0s  
 [CV 4/5; 227/1980] START leaf\_size=22, n\_neighbors=29...  
 [CV 1/5; 223/1980] END leaf\_size=22, n\_neighbors=25;; score=0.646 total time=0.0s  
 [CV 2/5; 223/1980] START leaf\_size=22, n\_neighbors=25...  
 [CV 2/5; 220/1980] END leaf\_size=22, n\_neighbors=22;; score=0.587 total time=0.0s  
 [CV 3/5; 220/1980] START leaf\_size=22, n\_neighbors=22...  
 [CV 1/5; 217/1980] END leaf\_size=22, n\_neighbors=19;; score=0.637 total time=0.0s  
 [CV 2/5; 217/1980] START leaf\_size=22, n\_neighbors=19...  
 [CV 3/5; 214/1980] END leaf\_size=22, n\_neighbors=16;; score=0.557 total time=0.0s

[CV 1/5; 229/1980] START leaf\_size=22, n\_neighbors=31...  
 [CV 4/5; 215/1980] END leaf\_size=22, n\_neighbors=17;; score=0.580 total time=0.0s  
 [CV 5/5; 215/1980] START leaf\_size=22, n\_neighbors=17...  
 [CV 4/5; 218/1980] END leaf\_size=22, n\_neighbors=20;; score=0.600 total time=0.0s  
 [CV 5/5; 218/1980] START leaf\_size=22, n\_neighbors=20...  
 [CV 1/5; 226/1980] END leaf\_size=22, n\_neighbors=28;; score=0.650 total time=0.0s  
 [CV 2/5; 226/1980] START leaf\_size=22, n\_neighbors=28...  
 [CV 5/5; 224/1980] END leaf\_size=22, n\_neighbors=26;; score=0.628 total time=0.0s  
 [CV 1/5; 225/1980] START leaf\_size=22, n\_neighbors=27...  
 [CV 5/5; 221/1980] END leaf\_size=22, n\_neighbors=23;; score=0.643 total time=0.0s  
 [CV 1/5; 222/1980] START leaf\_size=22, n\_neighbors=24...  
 [CV 4/5; 227/1980] END leaf\_size=22, n\_neighbors=29;; score=0.600 total time=0.0s  
 [CV 3/5; 220/1980] END leaf\_size=22, n\_neighbors=22;; score=0.555 total time=0.0s  
 [CV 5/5; 227/1980] START leaf\_size=22, n\_neighbors=29...  
  
 [CV 4/5; 220/1980] START leaf\_size=22, n\_neighbors=22...  
 [CV 2/5; 223/1980] END leaf\_size=22, n\_neighbors=25;; score=0.598 total time=0.0s  
 [CV 3/5; 223/1980] START leaf\_size=22, n\_neighbors=25...  
 [CV 2/5; 217/1980] END leaf\_size=22, n\_neighbors=19;; score=0.583 total time=0.0s  
 [CV 3/5; 217/1980] START leaf\_size=22, n\_neighbors=19...  
 [CV 5/5; 215/1980] END leaf\_size=22, n\_neighbors=17;; score=0.610 total time=0.0s  
 [CV 1/5; 216/1980] START leaf\_size=22, n\_neighbors=18...  
 [CV 1/5; 225/1980] END leaf\_size=22, n\_neighbors=27;; score=0.650 total time=0.0s  
 [CV 2/5; 225/1980] START leaf\_size=22, n\_neighbors=27...  
 [CV 5/5; 218/1980] END leaf\_size=22, n\_neighbors=20;; score=0.632 total time=0.0s  
 [CV 1/5; 219/1980] START leaf\_size=22, n\_neighbors=21...  
 [CV 2/5; 226/1980] END leaf\_size=22, n\_neighbors=28;; score=0.598 total time=0.0s  
 [CV 3/5; 226/1980] START leaf\_size=22, n\_neighbors=28...  
 [CV 1/5; 222/1980] END leaf\_size=22, n\_neighbors=24;; score=0.646 total time=0.0s  
 [CV 2/5; 222/1980] START leaf\_size=22, n\_neighbors=24...  
 [CV 1/5; 229/1980] END leaf\_size=22, n\_neighbors=31;; score=0.644 total time=0.0s  
 [CV 2/5; 229/1980] START leaf\_size=22, n\_neighbors=31...  
 [CV 4/5; 220/1980] END leaf\_size=22, n\_neighbors=22;; score=0.600 total time=

```

0.0s
[CV 5/5; 220/1980] START leaf_size=22, n_neighbors=22...
[CV 5/5; 227/1980] END leaf_size=22, n_neighbors=29;; score=0.639 total time=
0.0s
[CV 1/5; 228/1980] START leaf_size=22, n_neighbors=30...
[CV 1/5; 216/1980] END leaf_size=22, n_neighbors=18;; score=0.635 total time=
0.0s
[CV 3/5; 223/1980] END leaf_size=22, n_neighbors=25;; score=0.557 total time=
0.0s
[CV 4/5; 223/1980] START leaf_size=22, n_neighbors=25...
[CV 3/5; 217/1980] END leaf_size=22, n_neighbors=19;; score=0.551 total time=
0.0s
[CV 4/5; 217/1980] START leaf_size=22, n_neighbors=19...
[CV 4/5; 230/1980] START leaf_size=22, n_neighbors=32...
[CV 2/5; 225/1980] END leaf_size=22, n_neighbors=27;; score=0.594 total time=
0.0s
[CV 3/5; 225/1980] START leaf_size=22, n_neighbors=27...
[CV 3/5; 226/1980] END leaf_size=22, n_neighbors=28;; score=0.568 total time=
0.0s
[CV 4/5; 226/1980] START leaf_size=22, n_neighbors=28...
[CV 2/5; 222/1980] END leaf_size=22, n_neighbors=24;; score=0.596 total time=
0.0s
[CV 3/5; 222/1980] START leaf_size=22, n_neighbors=24...
[CV 1/5; 219/1980] END leaf_size=22, n_neighbors=21;; score=0.626 total time=
0.0s
[CV 2/5; 219/1980] START leaf_size=22, n_neighbors=21...
[CV 2/5; 229/1980] END leaf_size=22, n_neighbors=31;; score=0.603 total time=
0.0s
[CV 3/5; 229/1980] START leaf_size=22, n_neighbors=31...
[CV 5/5; 220/1980] END leaf_size=22, n_neighbors=22;; score=0.628 total time=
0.0s
[CV 2/5; 232/1980] START leaf_size=22, n_neighbors=34...
[CV 1/5; 228/1980] END leaf_size=22, n_neighbors=30;; score=0.639 total time=
0.0s
[CV 2/5; 228/1980] START leaf_size=22, n_neighbors=30...
[CV 3/5; 225/1980] END leaf_size=22, n_neighbors=27;; score=0.568 total time=
0.0s
[CV 4/5; 225/1980] START leaf_size=22, n_neighbors=27...
[CV 4/5; 230/1980] END leaf_size=22, n_neighbors=32;; score=0.593 total time=
0.0s
[CV 5/5; 230/1980] START leaf_size=22, n_neighbors=32...
[CV 4/5; 226/1980] END leaf_size=22, n_neighbors=28;; score=0.597 total time=
0.0s
[CV 5/5; 226/1980] START leaf_size=22, n_neighbors=28...
[CV 4/5; 223/1980] END leaf_size=22, n_neighbors=25;; score=0.587 total time=
0.0s
[CV 5/5; 223/1980] START leaf_size=22, n_neighbors=25...
[CV 3/5; 222/1980] END leaf_size=22, n_neighbors=24;; score=0.564 total time=

```

```

0.0s
[CV 5/5; 233/1980] START leaf_size=22, n_neighbors=35...
[CV 3/5; 229/1980] END leaf_size=22, n_neighbors=31;; score=0.570 total time=
0.0s
[CV 4/5; 229/1980] START leaf_size=22, n_neighbors=31...
[CV 2/5; 219/1980] END leaf_size=22, n_neighbors=21;; score=0.581 total time=
0.0s
[CV 4/5; 217/1980] END leaf_size=22, n_neighbors=19;; score=0.589 total time=
0.0s
[CV 3/5; 235/1980] START leaf_size=22, n_neighbors=37...
[CV 2/5; 232/1980] END leaf_size=22, n_neighbors=34;; score=0.600 total time=
0.0s
[CV 3/5; 232/1980] START leaf_size=22, n_neighbors=34...
[CV 2/5; 228/1980] END leaf_size=22, n_neighbors=30;; score=0.607 total time=
0.0s
[CV 3/5; 228/1980] START leaf_size=22, n_neighbors=30...
[CV 1/5; 237/1980] START leaf_size=22, n_neighbors=39...
[CV 5/5; 230/1980] END leaf_size=22, n_neighbors=32;; score=0.628 total time=
0.0s
[CV 1/5; 231/1980] START leaf_size=22, n_neighbors=33...
[CV 5/5; 226/1980] END leaf_size=22, n_neighbors=28;; score=0.641 total time=
0.0s
[CV 1/5; 227/1980] START leaf_size=22, n_neighbors=29...
[CV 4/5; 225/1980] END leaf_size=22, n_neighbors=27;; score=0.593 total time=
0.0s[CV 5/5; 233/1980] END leaf_size=22, n_neighbors=35;; score=0.639 total
time= 0.0s

[CV 1/5; 234/1980] START leaf_size=22, n_neighbors=36...
[CV 4/5; 238/1980] START leaf_size=22, n_neighbors=40...
[CV 3/5; 228/1980] END leaf_size=22, n_neighbors=30;; score=0.579 total time=
0.0s
[CV 4/5; 228/1980] START leaf_size=22, n_neighbors=30...
[CV 3/5; 232/1980] END leaf_size=22, n_neighbors=34;; score=0.577 total time=
0.0s
[CV 4/5; 232/1980] START leaf_size=22, n_neighbors=34...
[CV 5/5; 223/1980] END leaf_size=22, n_neighbors=25;; score=0.647 total time=
0.0s
[CV 1/5; 224/1980] START leaf_size=22, n_neighbors=26...
[CV 3/5; 235/1980] END leaf_size=22, n_neighbors=37;; score=0.568 total time=
0.0s
[CV 4/5; 235/1980] START leaf_size=22, n_neighbors=37...
[CV 4/5; 229/1980] END leaf_size=22, n_neighbors=31;; score=0.595 total time=
0.0s
[CV 5/5; 229/1980] START leaf_size=22, n_neighbors=31...
[CV 1/5; 227/1980] END leaf_size=22, n_neighbors=29;; score=0.646 total time=
0.0s
[CV 2/5; 227/1980] START leaf_size=22, n_neighbors=29...
[CV 4/5; 238/1980] END leaf_size=22, n_neighbors=40;; score=0.595 total time=

```

0.0s  
 [CV 5/5; 238/1980] START leaf\_size=22, n\_neighbors=40...  
 [CV 1/5; 231/1980] END leaf\_size=22, n\_neighbors=33;; score=0.646 total time=  
 0.0s  
 [CV 4/5; 228/1980] END leaf\_size=22, n\_neighbors=30;; score=0.595 total time=  
 0.0s  
 [CV 2/5; 231/1980] START leaf\_size=22, n\_neighbors=33...  
 [CV 1/5; 234/1980] END leaf\_size=22, n\_neighbors=36;; score=0.644 total time=  
 0.0s[CV 5/5; 228/1980] START leaf\_size=22,  
 n\_neighbors=30...  
 [CV 1/5; 237/1980] END leaf\_size=22, n\_neighbors=39;; score=0.654 total time=  
 0.0s  
  
 [CV 2/5; 237/1980] START leaf\_size=22,  
 n\_neighbors=39...[CV 2/5; 234/1980] START leaf\_size=22,  
 n\_neighbors=36...  
  
 [CV 4/5; 232/1980] END leaf\_size=22, n\_neighbors=34;; score=0.597 total time=  
 0.0s  
 [CV 5/5; 232/1980] START leaf\_size=22, n\_neighbors=34...  
 [CV 4/5; 235/1980] END leaf\_size=22, n\_neighbors=37;; score=0.610 total time=  
 0.0s  
 [CV 5/5; 235/1980] START leaf\_size=22, n\_neighbors=37...  
 [CV 5/5; 229/1980] END leaf\_size=22, n\_neighbors=31;; score=0.634 total time=  
 0.0s  
 [CV 1/5; 230/1980] START leaf\_size=22, n\_neighbors=32...  
 [CV 2/5; 227/1980] END leaf\_size=22, n\_neighbors=29;; score=0.600 total time=  
 0.0s  
 [CV 2/5; 240/1980] START leaf\_size=22, n\_neighbors=42...  
 [CV 5/5; 238/1980] END leaf\_size=22, n\_neighbors=40;; score=0.617 total time=  
 0.0s  
 [CV 1/5; 239/1980] START leaf\_size=22, n\_neighbors=41...  
 [CV 5/5; 228/1980] END leaf\_size=22, n\_neighbors=30;; score=0.632 total time=  
 0.0s  
 [CV 1/5; 224/1980] END leaf\_size=22, n\_neighbors=26;; score=0.639 total time=  
 0.1s  
 [CV 5/5; 241/1980] START leaf\_size=22, n\_neighbors=43...  
 [CV 2/5; 231/1980] END leaf\_size=22, n\_neighbors=33;; score=0.607 total time=  
 0.0s  
 [CV 3/5; 231/1980] START leaf\_size=22, n\_neighbors=33...  
 [CV 2/5; 234/1980] END leaf\_size=22, n\_neighbors=36;; score=0.616 total time=  
 0.0s  
 [CV 3/5; 234/1980] START leaf\_size=22, n\_neighbors=36...  
 [CV 5/5; 232/1980] END leaf\_size=22, n\_neighbors=34;; score=0.634 total time=  
 0.0s  
 [CV 3/5; 243/1980] START leaf\_size=22,  
 n\_neighbors=45...[CV 1/5; 233/1980] START leaf\_size=22,  
 n\_neighbors=35...

[CV 5/5; 235/1980] END leaf\_size=22, n\_neighbors=37;; score=0.628 total time=0.0s  
 [CV 1/5; 236/1980] START leaf\_size=22, n\_neighbors=38...  
 [CV 2/5; 240/1980] END leaf\_size=22, n\_neighbors=42;; score=0.618 total time=0.0s  
 [CV 3/5; 240/1980] START leaf\_size=22, n\_neighbors=42...  
 [CV 1/5; 230/1980] END leaf\_size=22, n\_neighbors=32;; score=0.639 total time=0.0s  
 [CV 2/5; 237/1980] END leaf\_size=22, n\_neighbors=39;; score=0.609 total time= 0.0s  
  
 [CV 3/5; 237/1980] START leaf\_size=22, n\_neighbors=39...  
 [CV 2/5; 230/1980] START leaf\_size=22, n\_neighbors=32...  
 [CV 1/5; 239/1980] END leaf\_size=22, n\_neighbors=41;; score=0.665 total time=0.0s  
 [CV 2/5; 239/1980] START leaf\_size=22, n\_neighbors=41...  
 [CV 5/5; 241/1980] END leaf\_size=22, n\_neighbors=43;; score=0.615 total time=0.0s  
 [CV 1/5; 242/1980] START leaf\_size=22, n\_neighbors=44...  
 [CV 3/5; 231/1980] END leaf\_size=22, n\_neighbors=33;; score=0.570 total time=0.0s  
 [CV 4/5; 231/1980] START leaf\_size=22, n\_neighbors=33...  
 [CV 1/5; 233/1980] END leaf\_size=22, n\_neighbors=35;; score=0.650 total time=0.0s  
 [CV 2/5; 233/1980] START leaf\_size=22, n\_neighbors=35...  
 [CV 3/5; 234/1980] END leaf\_size=22, n\_neighbors=36;; score=0.566 total time=0.0s  
 [CV 4/5; 234/1980] START leaf\_size=22, n\_neighbors=36...  
 [CV 3/5; 243/1980] END leaf\_size=22, n\_neighbors=45;; score=0.575 total time=0.0s  
 [CV 4/5; 243/1980] START leaf\_size=22, n\_neighbors=45...  
 [CV 1/5; 236/1980] END leaf\_size=22, n\_neighbors=38;; score=0.652 total time=0.0s  
 [CV 2/5; 236/1980] START leaf\_size=22, n\_neighbors=38...  
 [CV 3/5; 240/1980] END leaf\_size=22, n\_neighbors=42;; score=0.564 total time=0.0s  
 [CV 4/5; 240/1980] START leaf\_size=22, n\_neighbors=42...  
 [CV 2/5; 239/1980] END leaf\_size=22, n\_neighbors=41;; score=0.618 total time=0.0s  
 [CV 3/5; 239/1980] START leaf\_size=22, n\_neighbors=41...  
 [CV 2/5; 230/1980] END leaf\_size=22, n\_neighbors=32;; score=0.605 total time=0.0s  
 [CV 3/5; 230/1980] START leaf\_size=22, n\_neighbors=32...  
 [CV 1/5; 242/1980] END leaf\_size=22, n\_neighbors=44;; score=0.667 total time=0.0s  
 [CV 2/5; 242/1980] START leaf\_size=22, n\_neighbors=44...  
 [CV 2/5; 233/1980] END leaf\_size=22, n\_neighbors=35;; score=0.607 total time=0.0s

[CV 3/5; 233/1980] START leaf\_size=22, n\_neighbors=35...  
 [CV 4/5; 231/1980] END leaf\_size=22, n\_neighbors=33;; score=0.597 total time=0.0s  
 [CV 5/5; 231/1980] START leaf\_size=22, n\_neighbors=33...  
 [CV 4/5; 234/1980] END leaf\_size=22, n\_neighbors=36;; score=0.600 total time=0.0s  
 [CV 5/5; 234/1980] START leaf\_size=22, n\_neighbors=36...  
 [CV 4/5; 240/1980] END leaf\_size=22, n\_neighbors=42;; score=0.608 total time=0.0s  
 [CV 5/5; 240/1980] START leaf\_size=22, n\_neighbors=42...  
 [CV 3/5; 239/1980] END leaf\_size=22, n\_neighbors=41;; score=0.568 total time=0.0s  
 [CV 4/5; 239/1980] START leaf\_size=22, n\_neighbors=41...  
 [CV 4/5; 243/1980] END leaf\_size=22, n\_neighbors=45;; score=0.600 total time=0.0s  
 [CV 5/5; 243/1980] START leaf\_size=22, n\_neighbors=45...  
 [CV 2/5; 236/1980] END leaf\_size=22, n\_neighbors=38;; score=0.613 total time=0.0s  
 [CV 3/5; 236/1980] START leaf\_size=22, n\_neighbors=38...  
 [CV 2/5; 242/1980] END leaf\_size=22, n\_neighbors=44;; score=0.613 total time=0.0s  
 [CV 3/5; 242/1980] START leaf\_size=22, n\_neighbors=44...  
 [CV 3/5; 233/1980] END leaf\_size=22, n\_neighbors=35;; score=0.572 total time=0.0s  
 [CV 4/5; 233/1980] START leaf\_size=22, n\_neighbors=35...  
 [CV 5/5; 231/1980] END leaf\_size=22, n\_neighbors=33;; score=0.630 total time=0.0s  
 [CV 1/5; 232/1980] START leaf\_size=22, n\_neighbors=34...  
 [CV 3/5; 237/1980] END leaf\_size=22, n\_neighbors=39;; score=0.575 total time=0.1s  
 [CV 4/5; 237/1980] START leaf\_size=22, n\_neighbors=39...  
 [CV 5/5; 234/1980] END leaf\_size=22, n\_neighbors=36;; score=0.628 total time=0.0s  
 [CV 1/5; 235/1980] START leaf\_size=22, n\_neighbors=37...  
 [CV 5/5; 240/1980] END leaf\_size=22, n\_neighbors=42;; score=0.621 total time=0.0s  
 [CV 1/5; 241/1980] START leaf\_size=22, n\_neighbors=43...  
 [CV 4/5; 239/1980] END leaf\_size=22, n\_neighbors=41;; score=0.610 total time=0.0s  
 [CV 5/5; 239/1980] START leaf\_size=22, n\_neighbors=41...  
 [CV 3/5; 230/1980] END leaf\_size=22, n\_neighbors=32;; score=0.577 total time=0.0s  
 [CV 3/5; 236/1980] END leaf\_size=22, n\_neighbors=38;; score=0.566 total time=0.0s  
 [CV 4/5; 236/1980] START leaf\_size=22, n\_neighbors=38...  
 [CV 1/5; 245/1980] START leaf\_size=22, n\_neighbors=47...  
 [CV 5/5; 243/1980] END leaf\_size=22, n\_neighbors=45;; score=0.619 total time=0.0s

[CV 1/5; 244/1980] START leaf\_size=22, n\_neighbors=46...  
 [CV 3/5; 242/1980] END leaf\_size=22, n\_neighbors=44;; score=0.570 total time=0.0s  
 [CV 4/5; 242/1980] START leaf\_size=22, n\_neighbors=44...  
 [CV 4/5; 237/1980] END leaf\_size=22, n\_neighbors=39;; score=0.602 total time=0.0s  
 [CV 5/5; 237/1980] START leaf\_size=22, n\_neighbors=39...  
 [CV 1/5; 232/1980] END leaf\_size=22, n\_neighbors=34;; score=0.644 total time=0.0s  
 [CV 4/5; 246/1980] START leaf\_size=22, n\_neighbors=48...  
 [CV 1/5; 235/1980] END leaf\_size=22, n\_neighbors=37;; score=0.657 total time=0.0s  
 [CV 2/5; 235/1980] START leaf\_size=22, n\_neighbors=37...  
 [CV 1/5; 241/1980] END leaf\_size=22, n\_neighbors=43;; score=0.674 total time=0.0s  
 [CV 2/5; 241/1980] START leaf\_size=22, n\_neighbors=43...  
 [CV 4/5; 233/1980] END leaf\_size=22, n\_neighbors=35;; score=0.604 total time=0.0s  
 [CV 5/5; 239/1980] END leaf\_size=22, n\_neighbors=41;; score=0.619 total time=0.0s  
 [CV 1/5; 240/1980] START leaf\_size=22, n\_neighbors=42...  
 [CV 2/5; 248/1980] START leaf\_size=22, n\_neighbors=50...  
 [CV 4/5; 236/1980] END leaf\_size=22, n\_neighbors=38;; score=0.602 total time=0.0s  
 [CV 5/5; 236/1980] START leaf\_size=22, n\_neighbors=38...  
 [CV 4/5; 242/1980] END leaf\_size=22, n\_neighbors=44;; score=0.597 total time=0.0s  
 [CV 5/5; 242/1980] START leaf\_size=22, n\_neighbors=44...  
 [CV 1/5; 244/1980] END leaf\_size=22, n\_neighbors=46;; score=0.672 total time=0.0s  
 [CV 2/5; 244/1980] START leaf\_size=22, n\_neighbors=46...  
 [CV 1/5; 245/1980] END leaf\_size=22, n\_neighbors=47;; score=0.676 total time=0.0s  
 [CV 2/5; 245/1980] START leaf\_size=22, n\_neighbors=47...  
 [CV 5/5; 237/1980] END leaf\_size=22, n\_neighbors=39;; score=0.636 total time=0.0s  
 [CV 1/5; 238/1980] START leaf\_size=22, n\_neighbors=40...  
 [CV 2/5; 235/1980] END leaf\_size=22, n\_neighbors=37;; score=0.607 total time=0.0s  
 [CV 4/5; 246/1980] END leaf\_size=22, n\_neighbors=48;; score=0.589 total time=0.0s  
 [CV 5/5; 246/1980] START leaf\_size=22, n\_neighbors=48...  
 [CV 5/5; 249/1980] START leaf\_size=22, n\_neighbors=51...  
 [CV 1/5; 240/1980] END leaf\_size=22, n\_neighbors=42;; score=0.667 total time=0.0s  
 [CV 2/5; 241/1980] END leaf\_size=22, n\_neighbors=43;; score=0.616 total time=0.0s  
 [CV 3/5; 251/1980] START leaf\_size=22, n\_neighbors=53...



[CV 2/5; 248/1980] END leaf\_size=22, n\_neighbors=50;; score=0.603 total time=0.0s  
[CV 3/5; 241/1980] START leaf\_size=22, n\_neighbors=43...

[CV 3/5; 248/1980] START leaf\_size=22, n\_neighbors=50...  
[CV 5/5; 236/1980] END leaf\_size=22, n\_neighbors=38;; score=0.634 total time=0.0s  
[CV 5/5; 242/1980] END leaf\_size=22, n\_neighbors=44;; score=0.615 total time=0.0s  
[CV 1/5; 243/1980] START leaf\_size=22, n\_neighbors=45...  
[CV 2/5; 244/1980] END leaf\_size=22, n\_neighbors=46;; score=0.616 total time=0.0s  
[CV 3/5; 244/1980] START leaf\_size=22, n\_neighbors=46...  
[CV 1/5; 253/1980] START leaf\_size=22, n\_neighbors=55...  
[CV 2/5; 245/1980] END leaf\_size=22, n\_neighbors=47;; score=0.611 total time=0.0s  
[CV 3/5; 245/1980] START leaf\_size=22, n\_neighbors=47...  
[CV 1/5; 238/1980] END leaf\_size=22, n\_neighbors=40;; score=0.661 total time=0.0s  
[CV 2/5; 238/1980] START leaf\_size=22, n\_neighbors=40...  
[CV 5/5; 246/1980] END leaf\_size=22, n\_neighbors=48;; score=0.630 total time=0.0s  
[CV 1/5; 247/1980] START leaf\_size=22, n\_neighbors=49...  
[CV 3/5; 251/1980] END leaf\_size=22, n\_neighbors=53;; score=0.572 total time=0.0s  
[CV 3/5; 241/1980] END leaf\_size=22, n\_neighbors=43;; score=0.566 total time=0.0s  
[CV 5/5; 249/1980] END leaf\_size=22, n\_neighbors=51;; score=0.621 total time=0.0s  
[CV 4/5; 251/1980] START leaf\_size=22, n\_neighbors=53...

[CV 4/5; 241/1980] START leaf\_size=22, n\_neighbors=43...  
[CV 1/5; 250/1980] START leaf\_size=22, n\_neighbors=52...  
[CV 3/5; 248/1980] END leaf\_size=22, n\_neighbors=50;; score=0.557 total time=0.0s  
[CV 4/5; 248/1980] START leaf\_size=22, n\_neighbors=50...  
[CV 1/5; 243/1980] END leaf\_size=22, n\_neighbors=45;; score=0.678 total time=0.0s  
[CV 2/5; 243/1980] START leaf\_size=22, n\_neighbors=45...  
[CV 1/5; 253/1980] END leaf\_size=22, n\_neighbors=55;; score=0.667 total time=0.0s  
[CV 2/5; 253/1980] START leaf\_size=22, n\_neighbors=55...  
[CV 2/5; 238/1980] END leaf\_size=22, n\_neighbors=40;; score=0.611 total time=0.0s  
[CV 4/5; 251/1980] END leaf\_size=22, n\_neighbors=53;; score=0.600 total time=0.0s  
[CV 3/5; 238/1980] START leaf\_size=22, n\_neighbors=40...  
[CV 5/5; 251/1980] START leaf\_size=22, n\_neighbors=53...

[CV 4/5; 241/1980] END leaf\_size=22, n\_neighbors=43;; score=0.600 total time=0.0s  
 [CV 3/5; 245/1980] END leaf\_size=22, n\_neighbors=47;; score=0.572 total time=0.0s  
 [CV 4/5; 245/1980] START leaf\_size=22, n\_neighbors=47...  
 [CV 4/5; 254/1980] START leaf\_size=22, n\_neighbors=56...  
 [CV 4/5; 248/1980] END leaf\_size=22, n\_neighbors=50;; score=0.597 total time=0.0s  
 [CV 5/5; 248/1980] START leaf\_size=22, n\_neighbors=50...  
 [CV 1/5; 250/1980] END leaf\_size=22, n\_neighbors=52;; score=0.676 total time=0.0s  
 [CV 2/5; 250/1980] START leaf\_size=22, n\_neighbors=52...  
 [CV 1/5; 247/1980] END leaf\_size=22, n\_neighbors=49;; score=0.676 total time=0.0s  
 [CV 2/5; 247/1980] START leaf\_size=22, n\_neighbors=49...  
 [CV 3/5; 244/1980] END leaf\_size=22, n\_neighbors=46;; score=0.572 total time=0.1s  
 [CV 4/5; 244/1980] START leaf\_size=22, n\_neighbors=46...  
 [CV 2/5; 253/1980] END leaf\_size=22, n\_neighbors=55;; score=0.618 total time=0.0s  
 [CV 2/5; 243/1980] END leaf\_size=22, n\_neighbors=45;; score=0.611 total time=0.0s  
 [CV 5/5; 251/1980] END leaf\_size=22, n\_neighbors=53;; score=0.613 total time=0.0s  
 [CV 1/5; 252/1980] START leaf\_size=22, n\_neighbors=54...  
  
 [CV 3/5; 253/1980] START leaf\_size=22, n\_neighbors=55...  
  
 [CV 2/5; 256/1980] START leaf\_size=22, n\_neighbors=58...  
 [CV 4/5; 254/1980] END leaf\_size=22, n\_neighbors=56;; score=0.591 total time=0.0s  
 [CV 5/5; 254/1980] START leaf\_size=22, n\_neighbors=56...  
 [CV 3/5; 238/1980] END leaf\_size=22, n\_neighbors=40;; score=0.572 total time=0.0s  
 [CV 2/5; 250/1980] END leaf\_size=22, n\_neighbors=52;; score=0.611 total time=0.0s  
 [CV 3/5; 250/1980] START leaf\_size=22, n\_neighbors=52...  
 [CV 2/5; 247/1980] END leaf\_size=22, n\_neighbors=49;; score=0.622 total time=0.0s  
 [CV 3/5; 247/1980] START leaf\_size=22, n\_neighbors=49...  
 [CV 5/5; 257/1980] START leaf\_size=22, n\_neighbors=59...  
 [CV 4/5; 244/1980] END leaf\_size=22, n\_neighbors=46;; score=0.597 total time=0.0s  
 [CV 5/5; 244/1980] START leaf\_size=22, n\_neighbors=46...  
 [CV 4/5; 245/1980] END leaf\_size=22, n\_neighbors=47;; score=0.589 total time=0.0s  
 [CV 5/5; 245/1980] START leaf\_size=22, n\_neighbors=47...  
 [CV 5/5; 248/1980] END leaf\_size=22, n\_neighbors=50;; score=0.619 total time=0.0s  
 [CV 1/5; 249/1980] START leaf\_size=22, n\_neighbors=51...

[CV 1/5; 252/1980] END leaf\_size=22, n\_neighbors=54;; score=0.667 total time=0.0s  
 [CV 2/5; 252/1980] START leaf\_size=22, n\_neighbors=54...  
 [CV 3/5; 253/1980] END leaf\_size=22, n\_neighbors=55;; score=0.564 total time=0.0s  
 [CV 4/5; 253/1980] START leaf\_size=22, n\_neighbors=55...  
 [CV 5/5; 254/1980] END leaf\_size=22, n\_neighbors=56;; score=0.613 total time=0.0s  
 [CV 1/5; 255/1980] START leaf\_size=22, n\_neighbors=57...  
 [CV 5/5; 244/1980] END leaf\_size=22, n\_neighbors=46;; score=0.619 total time=0.0s  
 [CV 2/5; 256/1980] END leaf\_size=22, n\_neighbors=58;; score=0.609 total time=0.0s  
 [CV 3/5; 256/1980] START leaf\_size=22, n\_neighbors=58...  
 [CV 3/5; 259/1980] START leaf\_size=22, n\_neighbors=61...[CV 3/5; 250/1980] END leaf\_size=22, n\_neighbors=52;; score=0.566 total time= 0.0s  
  
 [CV 4/5; 250/1980] START leaf\_size=22, n\_neighbors=52...  
 [CV 3/5; 247/1980] END leaf\_size=22, n\_neighbors=49;; score=0.568 total time=0.0s  
 [CV 4/5; 247/1980] START leaf\_size=22, n\_neighbors=49...  
 [CV 1/5; 249/1980] END leaf\_size=22, n\_neighbors=51;; score=0.680 total time=0.0s  
 [CV 2/5; 249/1980] START leaf\_size=22, n\_neighbors=51...  
 [CV 2/5; 252/1980] END leaf\_size=22, n\_neighbors=54;; score=0.618 total time=0.0s  
 [CV 3/5; 252/1980] START leaf\_size=22, n\_neighbors=54...  
 [CV 4/5; 253/1980] END leaf\_size=22, n\_neighbors=55;; score=0.593 total time=0.0s  
 [CV 5/5; 253/1980] START leaf\_size=22, n\_neighbors=55...  
 [CV 5/5; 257/1980] END leaf\_size=22, n\_neighbors=59;; score=0.610 total time=0.0s  
 [CV 1/5; 258/1980] START leaf\_size=22, n\_neighbors=60...  
 [CV 3/5; 259/1980] END leaf\_size=22, n\_neighbors=61;; score=0.557 total time=0.0s  
 [CV 4/5; 259/1980] START leaf\_size=22, n\_neighbors=61...[CV 1/5; 255/1980] END leaf\_size=22, n\_neighbors=57;; score=0.665 total time= 0.0s  
  
 [CV 2/5; 255/1980] START leaf\_size=22, n\_neighbors=57...  
 [CV 4/5; 250/1980] END leaf\_size=22, n\_neighbors=52;; score=0.597 total time=0.0s  
 [CV 5/5; 250/1980] START leaf\_size=22, n\_neighbors=52...  
 [CV 3/5; 256/1980] END leaf\_size=22, n\_neighbors=58;; score=0.549 total time=0.0s  
 [CV 4/5; 256/1980] START leaf\_size=22, n\_neighbors=58...  
 [CV 4/5; 247/1980] END leaf\_size=22, n\_neighbors=49;; score=0.593 total time=

0.0s  
 [CV 5/5; 247/1980] START leaf\_size=22, n\_neighbors=49...  
 [CV 5/5; 245/1980] END leaf\_size=22, n\_neighbors=47;; score=0.623 total time=  
 0.1s  
 [CV 1/5; 246/1980] START leaf\_size=22, n\_neighbors=48...  
 [CV 2/5; 249/1980] END leaf\_size=22, n\_neighbors=51;; score=0.618 total time=  
 0.0s  
 [CV 3/5; 249/1980] START leaf\_size=22, n\_neighbors=51...  
 [CV 3/5; 252/1980] END leaf\_size=22, n\_neighbors=54;; score=0.562 total time=  
 0.0s  
 [CV 4/5; 252/1980] START leaf\_size=22, n\_neighbors=54...  
 [CV 5/5; 253/1980] END leaf\_size=22, n\_neighbors=55;; score=0.608 total time=  
 0.0s  
 [CV 1/5; 254/1980] START leaf\_size=22, n\_neighbors=56...  
 [CV 1/5; 258/1980] END leaf\_size=22, n\_neighbors=60;; score=0.667 total time=  
 0.0s  
 [CV 2/5; 258/1980] START leaf\_size=22, n\_neighbors=60...  
 [CV 4/5; 259/1980] END leaf\_size=22, n\_neighbors=61;; score=0.604 total time=  
 0.0s  
 [CV 5/5; 259/1980] START leaf\_size=22, n\_neighbors=61...  
 [CV 2/5; 255/1980] END leaf\_size=22, n\_neighbors=57;; score=0.616 total time=  
 0.0s  
 [CV 3/5; 255/1980] START leaf\_size=22, n\_neighbors=57...  
 [CV 5/5; 250/1980] END leaf\_size=22, n\_neighbors=52;; score=0.619 total time=  
 0.0s  
 [CV 1/5; 251/1980] START leaf\_size=22, n\_neighbors=53...  
 [CV 4/5; 256/1980] END leaf\_size=22, n\_neighbors=58;; score=0.595 total time=  
 0.0s  
 [CV 5/5; 256/1980] START leaf\_size=22, n\_neighbors=58...  
 [CV 5/5; 247/1980] END leaf\_size=22, n\_neighbors=49;; score=0.623 total time=  
 0.0s  
 [CV 1/5; 248/1980] START leaf\_size=22, n\_neighbors=50...  
 [CV 4/5; 252/1980] END leaf\_size=22, n\_neighbors=54;; score=0.595 total time=  
 0.0s  
 [CV 5/5; 252/1980] START leaf\_size=22, n\_neighbors=54...  
 [CV 3/5; 249/1980] END leaf\_size=22, n\_neighbors=51;; score=0.566 total time=  
 0.0s  
 [CV 4/5; 249/1980] START leaf\_size=22, n\_neighbors=51...  
 [CV 1/5; 246/1980] END leaf\_size=22, n\_neighbors=48;; score=0.672 total time=  
 0.0s  
 [CV 2/5; 246/1980] START leaf\_size=22, n\_neighbors=48...  
 [CV 1/5; 254/1980] END leaf\_size=22, n\_neighbors=56;; score=0.670 total time=  
 0.0s  
 [CV 2/5; 254/1980] START leaf\_size=22, n\_neighbors=56...  
 [CV 5/5; 259/1980] END leaf\_size=22, n\_neighbors=61;; score=0.606 total time=  
 0.0s  
 [CV 1/5; 260/1980] START leaf\_size=22, n\_neighbors=62...  
 [CV 5/5; 252/1980] END leaf\_size=22, n\_neighbors=54;; score=0.608 total time=

0.0s  
 [CV 3/5; 255/1980] END leaf\_size=22, n\_neighbors=57;;, score=0.559 total time=  
 0.0s  
 [CV 1/5; 251/1980] END leaf\_size=22, n\_neighbors=53;;, score=0.678 total time=  
 0.0s[CV 4/5; 255/1980] START leaf\_size=22,  
 n\_neighbors=57...  
 [CV 1/5; 261/1980] START leaf\_size=22, n\_neighbors=63...  
  
 [CV 2/5; 251/1980] START leaf\_size=22, n\_neighbors=53...  
 [CV 2/5; 258/1980] END leaf\_size=22, n\_neighbors=60;;, score=0.605 total time=  
 0.0s  
 [CV 3/5; 258/1980] START leaf\_size=22,  
 n\_neighbors=60...[CV 5/5; 256/1980] END leaf\_size=22,  
 n\_neighbors=58;;, score=0.610 total time= 0.0s  
  
 [CV 1/5; 257/1980] START leaf\_size=22, n\_neighbors=59...  
 [CV 1/5; 248/1980] END leaf\_size=22, n\_neighbors=50;;, score=0.678 total time=  
 0.0s  
 [CV 4/5; 262/1980] START leaf\_size=22, n\_neighbors=64...  
 [CV 2/5; 246/1980] END leaf\_size=22, n\_neighbors=48;;, score=0.609 total time=  
 0.0s  
 [CV 3/5; 246/1980] START leaf\_size=22, n\_neighbors=48...  
 [CV 2/5; 254/1980] END leaf\_size=22, n\_neighbors=56;;, score=0.609 total time=  
 0.0s  
 [CV 3/5; 254/1980] START leaf\_size=22, n\_neighbors=56...  
 [CV 4/5; 249/1980] END leaf\_size=22, n\_neighbors=51;;, score=0.602 total time=  
 0.0s  
 [CV 2/5; 264/1980] START leaf\_size=22, n\_neighbors=66...  
 [CV 1/5; 260/1980] END leaf\_size=22, n\_neighbors=62;;, score=0.663 total time=  
 0.0s  
 [CV 2/5; 260/1980] START leaf\_size=22, n\_neighbors=62...  
 [CV 1/5; 261/1980] END leaf\_size=22, n\_neighbors=63;;, score=0.665 total time=  
 0.0s  
 [CV 2/5; 261/1980] START leaf\_size=22, n\_neighbors=63...  
 [CV 4/5; 255/1980] END leaf\_size=22, n\_neighbors=57;;, score=0.597 total time=  
 0.0s  
 [CV 5/5; 255/1980] START leaf\_size=22, n\_neighbors=57...  
 [CV 2/5; 251/1980] END leaf\_size=22, n\_neighbors=53;;, score=0.611 total time=  
 0.0s  
 [CV 5/5; 265/1980] START leaf\_size=22, n\_neighbors=67...  
 [CV 4/5; 262/1980] END leaf\_size=22, n\_neighbors=64;;, score=0.593 total time=  
 0.0s  
 [CV 5/5; 262/1980] START leaf\_size=22, n\_neighbors=64...  
 [CV 5/5; 255/1980] END leaf\_size=22, n\_neighbors=57;;, score=0.610 total time=  
 0.0s  
 [CV 1/5; 256/1980] START leaf\_size=22, n\_neighbors=58...  
 [CV 2/5; 261/1980] END leaf\_size=22, n\_neighbors=63;;, score=0.609 total time=  
 0.0s

[CV 3/5; 261/1980] START leaf\_size=22, n\_neighbors=63...  
 [CV 5/5; 265/1980] END leaf\_size=22, n\_neighbors=67;; score=0.613 total time=0.0s  
 [CV 1/5; 266/1980] START leaf\_size=22, n\_neighbors=68...  
 [CV 5/5; 262/1980] END leaf\_size=22, n\_neighbors=64;; score=0.613 total time=0.0s  
 [CV 1/5; 263/1980] START leaf\_size=22, n\_neighbors=65...  
 [CV 2/5; 264/1980] END leaf\_size=22, n\_neighbors=66;; score=0.609 total time=0.1s  
 [CV 3/5; 264/1980] START leaf\_size=22, n\_neighbors=66...  
 [CV 3/5; 246/1980] END leaf\_size=22, n\_neighbors=48;; score=0.562 total time=0.1s  
 [CV 3/5; 258/1980] END leaf\_size=22, n\_neighbors=60;; score=0.553 total time=0.1s  
 [CV 4/5; 258/1980] START leaf\_size=22, n\_neighbors=60...  
 [CV 1/5; 257/1980] END leaf\_size=22, n\_neighbors=59;; score=0.670 total time=0.1s  
 [CV 2/5; 257/1980] START leaf\_size=22, n\_neighbors=59...  
 [CV 3/5; 267/1980] START leaf\_size=22, n\_neighbors=69...  
 [CV 3/5; 261/1980] END leaf\_size=22, n\_neighbors=63;; score=0.562 total time=0.0s  
 [CV 4/5; 261/1980] START leaf\_size=22, n\_neighbors=63...  
 [CV 3/5; 254/1980] END leaf\_size=22, n\_neighbors=56;; score=0.551 total time=0.1s  
 [CV 1/5; 256/1980] END leaf\_size=22, n\_neighbors=58;; score=0.665 total time=0.0s  
 [CV 2/5; 260/1980] END leaf\_size=22, n\_neighbors=62;; score=0.603 total time=0.1s  
 [CV 3/5; 260/1980] START leaf\_size=22, n\_neighbors=62...  
 [CV 1/5; 269/1980] START leaf\_size=22, n\_neighbors=71...  
 [CV 1/5; 266/1980] END leaf\_size=22, n\_neighbors=68;; score=0.667 total time=0.0s  
 [CV 2/5; 266/1980] START leaf\_size=22, n\_neighbors=68...  
 [CV 4/5; 270/1980] START leaf\_size=22, n\_neighbors=72...  
 [CV 1/5; 263/1980] END leaf\_size=22, n\_neighbors=65;; score=0.663 total time=0.0s  
 [CV 2/5; 263/1980] START leaf\_size=22, n\_neighbors=65...  
 [CV 4/5; 261/1980] END leaf\_size=22, n\_neighbors=63;; score=0.604 total time=0.0s  
 [CV 5/5; 261/1980] START leaf\_size=22, n\_neighbors=63...  
 [CV 3/5; 267/1980] END leaf\_size=22, n\_neighbors=69;; score=0.568 total time=0.0s  
 [CV 4/5; 267/1980] START leaf\_size=22, n\_neighbors=69...  
 [CV 2/5; 257/1980] END leaf\_size=22, n\_neighbors=59;; score=0.609 total time=0.0s  
 [CV 3/5; 257/1980] START leaf\_size=22, n\_neighbors=59...  
 [CV 3/5; 260/1980] END leaf\_size=22, n\_neighbors=62;; score=0.555 total time=0.0s

[CV 4/5; 260/1980] START leaf\_size=22, n\_neighbors=62...  
 [CV 4/5; 258/1980] END leaf\_size=22, n\_neighbors=60;; score=0.602 total time=0.0s  
 [CV 5/5; 258/1980] START leaf\_size=22, n\_neighbors=60...  
 [CV 2/5; 266/1980] END leaf\_size=22, n\_neighbors=68;; score=0.609 total time=0.0s  
 [CV 3/5; 266/1980] START leaf\_size=22, n\_neighbors=68...  
 [CV 3/5; 264/1980] END leaf\_size=22, n\_neighbors=66;; score=0.566 total time=0.1s  
 [CV 4/5; 264/1980] START leaf\_size=22, n\_neighbors=66...  
 [CV 4/5; 270/1980] END leaf\_size=22, n\_neighbors=72;; score=0.593 total time=0.0s  
 [CV 5/5; 270/1980] START leaf\_size=22, n\_neighbors=72...  
 [CV 5/5; 261/1980] END leaf\_size=22, n\_neighbors=63;; score=0.615 total time=0.0s  
 [CV 1/5; 262/1980] START leaf\_size=22, n\_neighbors=64...  
 [CV 2/5; 263/1980] END leaf\_size=22, n\_neighbors=65;; score=0.616 total time=0.0s  
 [CV 3/5; 263/1980] START leaf\_size=22, n\_neighbors=65...  
 [CV 3/5; 257/1980] END leaf\_size=22, n\_neighbors=59;; score=0.553 total time=0.0s  
 [CV 4/5; 257/1980] START leaf\_size=22, n\_neighbors=59...  
 [CV 4/5; 260/1980] END leaf\_size=22, n\_neighbors=62;; score=0.600 total time=0.0s  
 [CV 5/5; 260/1980] START leaf\_size=22, n\_neighbors=62...  
 [CV 4/5; 267/1980] END leaf\_size=22, n\_neighbors=69;; score=0.582 total time=0.0s  
 [CV 5/5; 267/1980] START leaf\_size=22, n\_neighbors=69...  
 [CV 5/5; 258/1980] END leaf\_size=22, n\_neighbors=60;; score=0.604 total time=0.0s  
 [CV 1/5; 259/1980] START leaf\_size=22, n\_neighbors=61...  
 [CV 3/5; 266/1980] END leaf\_size=22, n\_neighbors=68;; score=0.566 total time=0.0s  
 [CV 4/5; 266/1980] START leaf\_size=22, n\_neighbors=68...  
 [CV 4/5; 264/1980] END leaf\_size=22, n\_neighbors=66;; score=0.574 total time=0.0s  
 [CV 5/5; 264/1980] START leaf\_size=22, n\_neighbors=66...  
 [CV 5/5; 270/1980] END leaf\_size=22, n\_neighbors=72;; score=0.613 total time=0.0s  
 [CV 1/5; 271/1980] START leaf\_size=22, n\_neighbors=73...  
 [CV 1/5; 262/1980] END leaf\_size=22, n\_neighbors=64;; score=0.663 total time=0.0s  
 [CV 2/5; 262/1980] START leaf\_size=22, n\_neighbors=64...  
 [CV 4/5; 257/1980] END leaf\_size=22, n\_neighbors=59;; score=0.604 total time=0.0s  
 [CV 2/5; 272/1980] START leaf\_size=22, n\_neighbors=74...  
 [CV 5/5; 260/1980] END leaf\_size=22, n\_neighbors=62;; score=0.610 total time=0.0s

[CV 3/5; 263/1980] END leaf\_size=22, n\_neighbors=65;; score=0.566 total time=0.0s  
 [CV 4/5; 263/1980] START leaf\_size=22, n\_neighbors=65...  
 [CV 5/5; 273/1980] START leaf\_size=22, n\_neighbors=75...  
 [CV 5/5; 267/1980] END leaf\_size=22, n\_neighbors=69;; score=0.621 total time=0.0s  
 [CV 1/5; 268/1980] START leaf\_size=22, n\_neighbors=70...  
 [CV 1/5; 259/1980] END leaf\_size=22, n\_neighbors=61;; score=0.665 total time=0.0s  
 [CV 2/5; 259/1980] START leaf\_size=22, n\_neighbors=61...  
 [CV 4/5; 266/1980] END leaf\_size=22, n\_neighbors=68;; score=0.576 total time=0.0s  
 [CV 5/5; 266/1980] START leaf\_size=22, n\_neighbors=68...  
 [CV 5/5; 264/1980] END leaf\_size=22, n\_neighbors=66;; score=0.613 total time=0.0s  
 [CV 1/5; 265/1980] START leaf\_size=22, n\_neighbors=67...  
 [CV 1/5; 269/1980] END leaf\_size=22, n\_neighbors=71;; score=0.670 total time=0.1s  
 [CV 2/5; 269/1980] START leaf\_size=22, n\_neighbors=71...  
 [CV 1/5; 271/1980] END leaf\_size=22, n\_neighbors=73;; score=0.663 total time=0.0s  
 [CV 2/5; 271/1980] START leaf\_size=22, n\_neighbors=73...  
 [CV 2/5; 262/1980] END leaf\_size=22, n\_neighbors=64;; score=0.609 total time=0.0s  
 [CV 3/5; 262/1980] START leaf\_size=22, n\_neighbors=64...  
 [CV 2/5; 272/1980] END leaf\_size=22, n\_neighbors=74;; score=0.607 total time=0.0s  
 [CV 3/5; 272/1980] START leaf\_size=22, n\_neighbors=74...  
 [CV 5/5; 273/1980] END leaf\_size=22, n\_neighbors=75;; score=0.632 total time=0.0s  
 [CV 1/5; 274/1980] START leaf\_size=22, n\_neighbors=76...  
 [CV 2/5; 259/1980] END leaf\_size=22, n\_neighbors=61;; score=0.603 total time=0.0s  
 [CV 4/5; 263/1980] END leaf\_size=22, n\_neighbors=65;; score=0.591 total time=0.0s  
 [CV 5/5; 263/1980] START leaf\_size=22, n\_neighbors=65...  
 [CV 3/5; 275/1980] START leaf\_size=22, n\_neighbors=77...  
 [CV 1/5; 265/1980] END leaf\_size=22, n\_neighbors=67;; score=0.663 total time=0.0s  
 [CV 2/5; 265/1980] START leaf\_size=22, n\_neighbors=67...  
 [CV 5/5; 266/1980] END leaf\_size=22, n\_neighbors=68;; score=0.615 total time=0.0s  
 [CV 1/5; 267/1980] START leaf\_size=22, n\_neighbors=69...  
 [CV 1/5; 268/1980] END leaf\_size=22, n\_neighbors=70;; score=0.663 total time=0.0s  
 [CV 2/5; 268/1980] START leaf\_size=22, n\_neighbors=70...  
 [CV 2/5; 271/1980] END leaf\_size=22, n\_neighbors=73;; score=0.605 total time=0.0s



[CV 3/5; 271/1980] START leaf\_size=22, n\_neighbors=73...  
 [CV 3/5; 272/1980] END leaf\_size=22, n\_neighbors=74;; score=0.557 total time=0.0s  
 [CV 4/5; 272/1980] START leaf\_size=22, n\_neighbors=74...  
 [CV 1/5; 274/1980] END leaf\_size=22, n\_neighbors=76;; score=0.667 total time=0.0s  
 [CV 2/5; 274/1980] START leaf\_size=22, n\_neighbors=76...  
 [CV 2/5; 269/1980] END leaf\_size=22, n\_neighbors=71;; score=0.616 total time=0.1s  
 [CV 3/5; 269/1980] START leaf\_size=22, n\_neighbors=71...  
 [CV 3/5; 275/1980] END leaf\_size=22, n\_neighbors=77;; score=0.562 total time=0.0s  
 [CV 4/5; 275/1980] START leaf\_size=22, n\_neighbors=77...  
 [CV 2/5; 265/1980] END leaf\_size=22, n\_neighbors=67;; score=0.611 total time=0.0s  
 [CV 3/5; 265/1980] START leaf\_size=22, n\_neighbors=67...  
 [CV 1/5; 267/1980] END leaf\_size=22, n\_neighbors=69;; score=0.663 total time=0.0s  
 [CV 2/5; 267/1980] START leaf\_size=22, n\_neighbors=69...  
 [CV 3/5; 262/1980] END leaf\_size=22, n\_neighbors=64;; score=0.562 total time=0.1s  
 [CV 3/5; 271/1980] END leaf\_size=22, n\_neighbors=73;; score=0.566 total time=0.0s  
 [CV 4/5; 271/1980] START leaf\_size=22, n\_neighbors=73...  
 [CV 2/5; 268/1980] END leaf\_size=22, n\_neighbors=70;; score=0.607 total time=0.0s  
 [CV 3/5; 268/1980] START leaf\_size=22, n\_neighbors=70...  
  
 [CV 1/5; 277/1980] START leaf\_size=22, n\_neighbors=79...  
 [CV 5/5; 263/1980] END leaf\_size=22, n\_neighbors=65;; score=0.621 total time=0.0s  
 [CV 1/5; 264/1980] START leaf\_size=22, n\_neighbors=66...  
 [CV 4/5; 272/1980] END leaf\_size=22, n\_neighbors=74;; score=0.591 total time=0.0s  
 [CV 5/5; 272/1980] START leaf\_size=22, n\_neighbors=74...  
 [CV 2/5; 274/1980] END leaf\_size=22, n\_neighbors=76;; score=0.603 total time=0.0s  
 [CV 3/5; 274/1980] START leaf\_size=22, n\_neighbors=76...  
 [CV 4/5; 275/1980] END leaf\_size=22, n\_neighbors=77;; score=0.580 total time=0.0s  
 [CV 5/5; 275/1980] START leaf\_size=22, n\_neighbors=77...  
 [CV 3/5; 265/1980] END leaf\_size=22, n\_neighbors=67;; score=0.564 total time=0.0s  
 [CV 4/5; 265/1980] START leaf\_size=22, n\_neighbors=67...  
 [CV 2/5; 267/1980] END leaf\_size=22, n\_neighbors=69;; score=0.609 total time=0.0s  
 [CV 4/5; 278/1980] START leaf\_size=22, n\_neighbors=80...  
 [CV 4/5; 271/1980] END leaf\_size=22, n\_neighbors=73;; score=0.591 total time=0.0s

[CV 5/5; 271/1980] START leaf\_size=22, n\_neighbors=73...  
 [CV 3/5; 269/1980] END leaf\_size=22, n\_neighbors=71;; score=0.562 total time=0.0s  
 [CV 4/5; 269/1980] START leaf\_size=22, n\_neighbors=71...  
 [CV 3/5; 268/1980] END leaf\_size=22, n\_neighbors=70;; score=0.559 total time=0.0s  
 [CV 4/5; 268/1980] START leaf\_size=22, n\_neighbors=70...  
 [CV 1/5; 277/1980] END leaf\_size=22, n\_neighbors=79;; score=0.659 total time=0.0s  
 [CV 2/5; 277/1980] START leaf\_size=22, n\_neighbors=79...  
 [CV 5/5; 272/1980] END leaf\_size=22, n\_neighbors=74;; score=0.623 total time=0.0s  
 [CV 1/5; 273/1980] START leaf\_size=22, n\_neighbors=75...  
 [CV 1/5; 264/1980] END leaf\_size=22, n\_neighbors=66;; score=0.663 total time=0.0s  
 [CV 2/5; 280/1980] START leaf\_size=22, n\_neighbors=82...  
 [CV 5/5; 275/1980] END leaf\_size=22, n\_neighbors=77;; score=0.617 total time=0.0s  
 [CV 1/5; 276/1980] START leaf\_size=22, n\_neighbors=78...  
 [CV 4/5; 265/1980] END leaf\_size=22, n\_neighbors=67;; score=0.587 total time=0.0s  
 [CV 5/5; 281/1980] START leaf\_size=22, n\_neighbors=83...  
 [CV 4/5; 278/1980] END leaf\_size=22, n\_neighbors=80;; score=0.584 total time=0.0s  
 [CV 5/5; 278/1980] START leaf\_size=22, n\_neighbors=80...  
 [CV 5/5; 271/1980] END leaf\_size=22, n\_neighbors=73;; score=0.628 total time=0.0s  
 [CV 1/5; 272/1980] START leaf\_size=22, n\_neighbors=74...  
 [CV 1/5; 273/1980] END leaf\_size=22, n\_neighbors=75;; score=0.667 total time=0.0s  
 [CV 2/5; 273/1980] START leaf\_size=22, n\_neighbors=75...  
 [CV 2/5; 277/1980] END leaf\_size=22, n\_neighbors=79;; score=0.598 total time=0.0s  
 [CV 3/5; 277/1980] START leaf\_size=22, n\_neighbors=79...  
 [CV 4/5; 268/1980] END leaf\_size=22, n\_neighbors=70;; score=0.589 total time=0.0s  
 [CV 5/5; 268/1980] START leaf\_size=22, n\_neighbors=70...  
 [CV 4/5; 269/1980] END leaf\_size=22, n\_neighbors=71;; score=0.587 total time=0.0s  
 [CV 5/5; 269/1980] START leaf\_size=22, n\_neighbors=71...  
 [CV 3/5; 274/1980] END leaf\_size=22, n\_neighbors=76;; score=0.557 total time=0.1s  
 [CV 4/5; 274/1980] START leaf\_size=22, n\_neighbors=76...  
 [CV 1/5; 276/1980] END leaf\_size=22, n\_neighbors=78;; score=0.659 total time=0.0s  
 [CV 2/5; 276/1980] START leaf\_size=22, n\_neighbors=78...  
 [CV 2/5; 280/1980] END leaf\_size=22, n\_neighbors=82;; score=0.600 total time=0.0s

[CV 3/5; 280/1980] START leaf\_size=22, n\_neighbors=82...  
 [CV 5/5; 281/1980] END leaf\_size=22, n\_neighbors=83;; score=0.619 total time=0.0s  
 [CV 1/5; 282/1980] START leaf\_size=22, n\_neighbors=84...  
 [CV 5/5; 278/1980] END leaf\_size=22, n\_neighbors=80;; score=0.628 total time=0.0s  
 [CV 1/5; 279/1980] START leaf\_size=22, n\_neighbors=81...  
 [CV 2/5; 273/1980] END leaf\_size=22, n\_neighbors=75;; score=0.603 total time=0.0s  
 [CV 3/5; 273/1980] START leaf\_size=22, n\_neighbors=75...  
 [CV 3/5; 277/1980] END leaf\_size=22, n\_neighbors=79;; score=0.557 total time=0.0s  
 [CV 4/5; 277/1980] START leaf\_size=22, n\_neighbors=79...  
 [CV 4/5; 274/1980] END leaf\_size=22, n\_neighbors=76;; score=0.578 total time=0.0s  
 [CV 5/5; 274/1980] START leaf\_size=22, n\_neighbors=76...  
 [CV 5/5; 268/1980] END leaf\_size=22, n\_neighbors=70;; score=0.606 total time=0.0s  
 [CV 3/5; 283/1980] START leaf\_size=22, n\_neighbors=85...  
 [CV 5/5; 269/1980] END leaf\_size=22, n\_neighbors=71;; score=0.613 total time=0.0s  
 [CV 1/5; 270/1980] START leaf\_size=22, n\_neighbors=72...  
 [CV 2/5; 276/1980] END leaf\_size=22, n\_neighbors=78;; score=0.603 total time=0.0s  
 [CV 3/5; 276/1980] START leaf\_size=22, n\_neighbors=78...  
 [CV 1/5; 272/1980] END leaf\_size=22, n\_neighbors=74;; score=0.661 total time=0.1s  
 [CV 1/5; 279/1980] END leaf\_size=22, n\_neighbors=81;; score=0.659 total time=0.0s  
 [CV 2/5; 279/1980] START leaf\_size=22, n\_neighbors=81...  
 [CV 1/5; 282/1980] END leaf\_size=22, n\_neighbors=84;; score=0.654 total time=0.0s  
 [CV 2/5; 282/1980] START leaf\_size=22, n\_neighbors=84...  
 [CV 3/5; 273/1980] END leaf\_size=22, n\_neighbors=75;; score=0.555 total time=0.0s  
 [CV 4/5; 273/1980] START leaf\_size=22, n\_neighbors=75...  
 [CV 1/5; 285/1980] START leaf\_size=22, n\_neighbors=87...  
 [CV 4/5; 277/1980] END leaf\_size=22, n\_neighbors=79;; score=0.584 total time=0.0s  
 [CV 5/5; 277/1980] START leaf\_size=22, n\_neighbors=79...  
 [CV 3/5; 280/1980] END leaf\_size=22, n\_neighbors=82;; score=0.566 total time=0.0s  
 [CV 4/5; 280/1980] START leaf\_size=22, n\_neighbors=82...  
 [CV 5/5; 274/1980] END leaf\_size=22, n\_neighbors=76;; score=0.621 total time=0.0s  
 [CV 1/5; 275/1980] START leaf\_size=22, n\_neighbors=77...  
 [CV 3/5; 276/1980] END leaf\_size=22, n\_neighbors=78;; score=0.555 total time=0.0s

[CV 4/5; 276/1980] START leaf\_size=22, n\_neighbors=78...  
 [CV 3/5; 283/1980] END leaf\_size=22, n\_neighbors=85;; score=0.557 total time=0.0s  
 [CV 4/5; 283/1980] START leaf\_size=22, n\_neighbors=85...  
 [CV 1/5; 270/1980] END leaf\_size=22, n\_neighbors=72;; score=0.663 total time=0.0s  
 [CV 2/5; 270/1980] START leaf\_size=22, n\_neighbors=72...  
 [CV 4/5; 273/1980] END leaf\_size=22, n\_neighbors=75;; score=0.591 total time=0.0s  
 [CV 2/5; 279/1980] END leaf\_size=22, n\_neighbors=81;; score=0.596 total time=0.0s  
 [CV 3/5; 279/1980] START leaf\_size=22, n\_neighbors=81...  
 [CV 4/5; 286/1980] START leaf\_size=22, n\_neighbors=88...  
 [CV 2/5; 282/1980] END leaf\_size=22, n\_neighbors=84;; score=0.603 total time=0.0s  
 [CV 3/5; 282/1980] START leaf\_size=22, n\_neighbors=84...  
 [CV 5/5; 277/1980] END leaf\_size=22, n\_neighbors=79;; score=0.619 total time=0.0s  
 [CV 1/5; 278/1980] START leaf\_size=22, n\_neighbors=80...  
 [CV 1/5; 285/1980] END leaf\_size=22, n\_neighbors=87;; score=0.650 total time=0.0s  
 [CV 2/5; 285/1980] START leaf\_size=22, n\_neighbors=87...  
 [CV 1/5; 275/1980] END leaf\_size=22, n\_neighbors=77;; score=0.667 total time=0.0s  
 [CV 2/5; 275/1980] START leaf\_size=22, n\_neighbors=77...  
 [CV 4/5; 280/1980] END leaf\_size=22, n\_neighbors=82;; score=0.587 total time=0.0s  
 [CV 5/5; 280/1980] START leaf\_size=22, n\_neighbors=82...  
 [CV 4/5; 276/1980] END leaf\_size=22, n\_neighbors=78;; score=0.571 total time=0.0s  
 [CV 5/5; 276/1980] START leaf\_size=22, n\_neighbors=78...  
 [CV 2/5; 270/1980] END leaf\_size=22, n\_neighbors=72;; score=0.607 total time=0.0s  
 [CV 3/5; 270/1980] START leaf\_size=22, n\_neighbors=72...  
 [CV 3/5; 279/1980] END leaf\_size=22, n\_neighbors=81;; score=0.562 total time=0.0s  
 [CV 4/5; 279/1980] START leaf\_size=22, n\_neighbors=81...  
 [CV 4/5; 286/1980] END leaf\_size=22, n\_neighbors=88;; score=0.578 total time=0.0s  
 [CV 5/5; 286/1980] START leaf\_size=22, n\_neighbors=88...  
 [CV 3/5; 282/1980] END leaf\_size=22, n\_neighbors=84;; score=0.555 total time=0.0s  
 [CV 4/5; 282/1980] START leaf\_size=22, n\_neighbors=84...  
 [CV 1/5; 278/1980] END leaf\_size=22, n\_neighbors=80;; score=0.659 total time=0.0s  
 [CV 2/5; 278/1980] START leaf\_size=22, n\_neighbors=80...  
 [CV 2/5; 285/1980] END leaf\_size=22, n\_neighbors=87;; score=0.603 total time=0.0s

[CV 3/5; 285/1980] START leaf\_size=22, n\_neighbors=87...  
 [CV 4/5; 283/1980] END leaf\_size=22, n\_neighbors=85;; score=0.576 total time=0.1s  
 [CV 5/5; 283/1980] START leaf\_size=22, n\_neighbors=85...  
 [CV 2/5; 275/1980] END leaf\_size=22, n\_neighbors=77;; score=0.605 total time=0.0s  
 [CV 5/5; 276/1980] END leaf\_size=22, n\_neighbors=78;; score=0.628 total time=0.0s  
 [CV 2/5; 288/1980] START leaf\_size=22, n\_neighbors=90...  
 [CV 5/5; 289/1980] START leaf\_size=22, n\_neighbors=91...  
 [CV 5/5; 280/1980] END leaf\_size=22, n\_neighbors=82;; score=0.630 total time=0.0s  
 [CV 1/5; 281/1980] START leaf\_size=22, n\_neighbors=83...  
 [CV 4/5; 279/1980] END leaf\_size=22, n\_neighbors=81;; score=0.587 total time=0.0s  
 [CV 5/5; 279/1980] START leaf\_size=22, n\_neighbors=81...  
 [CV 5/5; 286/1980] END leaf\_size=22, n\_neighbors=88;; score=0.617 total time=0.0s  
 [CV 1/5; 287/1980] START leaf\_size=22, n\_neighbors=89...  
 [CV 4/5; 282/1980] END leaf\_size=22, n\_neighbors=84;; score=0.582 total time=0.0s  
 [CV 5/5; 282/1980] START leaf\_size=22, n\_neighbors=84...  
 [CV 3/5; 285/1980] END leaf\_size=22, n\_neighbors=87;; score=0.562 total time=0.0s  
 [CV 4/5; 285/1980] START leaf\_size=22, n\_neighbors=87...  
 [CV 2/5; 278/1980] END leaf\_size=22, n\_neighbors=80;; score=0.594 total time=0.0s  
 [CV 3/5; 278/1980] START leaf\_size=22, n\_neighbors=80...  
 [CV 3/5; 270/1980] END leaf\_size=22, n\_neighbors=72;; score=0.562 total time=0.0s  
 [CV 3/5; 291/1980] START leaf\_size=22, n\_neighbors=93...  
 [CV 2/5; 288/1980] END leaf\_size=22, n\_neighbors=90;; score=0.600 total time=0.0s  
 [CV 3/5; 288/1980] START leaf\_size=22, n\_neighbors=90...  
 [CV 5/5; 289/1980] END leaf\_size=22, n\_neighbors=91;; score=0.623 total time=0.0s  
 [CV 1/5; 290/1980] START leaf\_size=22, n\_neighbors=92...  
 [CV 5/5; 283/1980] END leaf\_size=22, n\_neighbors=85;; score=0.626 total time=0.0s  
 [CV 1/5; 284/1980] START leaf\_size=22, n\_neighbors=86...  
 [CV 5/5; 279/1980] END leaf\_size=22, n\_neighbors=81;; score=0.626 total time=0.0s  
 [CV 1/5; 280/1980] START leaf\_size=22, n\_neighbors=82...  
 [CV 1/5; 281/1980] END leaf\_size=22, n\_neighbors=83;; score=0.650 total time=0.0s  
 [CV 2/5; 281/1980] START leaf\_size=22, n\_neighbors=83...  
 [CV 1/5; 287/1980] END leaf\_size=22, n\_neighbors=89;; score=0.646 total time=0.0s

[CV 2/5; 287/1980] START leaf\_size=22, n\_neighbors=89...  
 [CV 4/5; 285/1980] END leaf\_size=22, n\_neighbors=87;; score=0.584 total time=0.0s  
 [CV 5/5; 285/1980] START leaf\_size=22, n\_neighbors=87...  
 [CV 3/5; 278/1980] END leaf\_size=22, n\_neighbors=80;; score=0.564 total time=0.0s  
 [CV 5/5; 282/1980] END leaf\_size=22, n\_neighbors=84;; score=0.626 total time=0.0s  
 [CV 1/5; 283/1980] START leaf\_size=22, n\_neighbors=85...  
 [CV 1/5; 293/1980] START leaf\_size=22, n\_neighbors=95...  
 [CV 3/5; 288/1980] END leaf\_size=22, n\_neighbors=90;; score=0.564 total time=0.0s  
 [CV 4/5; 288/1980] START leaf\_size=22, n\_neighbors=90...  
 [CV 1/5; 290/1980] END leaf\_size=22, n\_neighbors=92;; score=0.646 total time=0.0s  
 [CV 2/5; 290/1980] START leaf\_size=22, n\_neighbors=92...  
 [CV 3/5; 291/1980] END leaf\_size=22, n\_neighbors=93;; score=0.564 total time=0.0s  
 [CV 4/5; 291/1980] START leaf\_size=22, n\_neighbors=93...  
 [CV 1/5; 280/1980] END leaf\_size=22, n\_neighbors=82;; score=0.659 total time=0.0s  
 [CV 4/5; 294/1980] START leaf\_size=22, n\_neighbors=96...  
 [CV 2/5; 287/1980] END leaf\_size=22, n\_neighbors=89;; score=0.600 total time=0.0s  
 [CV 3/5; 287/1980] START leaf\_size=22, n\_neighbors=89...  
 [CV 5/5; 285/1980] END leaf\_size=22, n\_neighbors=87;; score=0.619 total time=0.0s  
 [CV 1/5; 286/1980] START leaf\_size=22, n\_neighbors=88...  
 [CV 2/5; 281/1980] END leaf\_size=22, n\_neighbors=83;; score=0.596 total time=0.0s  
 [CV 3/5; 281/1980] START leaf\_size=22, n\_neighbors=83...  
 [CV 1/5; 293/1980] END leaf\_size=22, n\_neighbors=95;; score=0.644 total time=0.0s  
 [CV 2/5; 293/1980] START leaf\_size=22, n\_neighbors=95...  
 [CV 1/5; 283/1980] END leaf\_size=22, n\_neighbors=85;; score=0.650 total time=0.0s  
 [CV 2/5; 283/1980] START leaf\_size=22, n\_neighbors=85...  
 [CV 2/5; 290/1980] END leaf\_size=22, n\_neighbors=92;; score=0.598 total time=0.0s  
 [CV 3/5; 290/1980] START leaf\_size=22, n\_neighbors=92...  
 [CV 1/5; 284/1980] END leaf\_size=22, n\_neighbors=86;; score=0.648 total time=0.1s  
 [CV 4/5; 288/1980] END leaf\_size=22, n\_neighbors=90;; score=0.580 total time=0.0s  
 [CV 2/5; 284/1980] START leaf\_size=22, n\_neighbors=86...  
  
 [CV 5/5; 288/1980] START leaf\_size=22, n\_neighbors=90...  
 [CV 4/5; 294/1980] END leaf\_size=22, n\_neighbors=96;; score=0.582 total time=

0.0s[CV 4/5; 291/1980] END leaf\_size=22, n\_neighbors=93;; score=0.587 total time= 0.0s

[CV 5/5; 291/1980] START leaf\_size=22, n\_neighbors=93...[CV 5/5; 294/1980] START leaf\_size=22, n\_neighbors=96...

[CV 3/5; 287/1980] END leaf\_size=22, n\_neighbors=89;; score=0.564 total time= 0.0s

[CV 4/5; 287/1980] START leaf\_size=22, n\_neighbors=89...

[CV 1/5; 286/1980] END leaf\_size=22, n\_neighbors=88;; score=0.652 total time= 0.0s

[CV 2/5; 286/1980] START leaf\_size=22, n\_neighbors=88...

[CV 2/5; 293/1980] END leaf\_size=22, n\_neighbors=95;; score=0.603 total time= 0.0s

[CV 3/5; 293/1980] START leaf\_size=22, n\_neighbors=95...

[CV 3/5; 281/1980] END leaf\_size=22, n\_neighbors=83;; score=0.564 total time= 0.0s[CV 3/5; 290/1980] END leaf\_size=22, n\_neighbors=92;; score=0.564 total time= 0.0s

[CV 2/5; 283/1980] END leaf\_size=22, n\_neighbors=85;; score=0.600 total time= 0.0s[CV 4/5; 290/1980] START leaf\_size=22, n\_neighbors=92...

[CV 4/5; 281/1980] START leaf\_size=22, n\_neighbors=83...

[CV 5/5; 288/1980] END leaf\_size=22, n\_neighbors=90;; score=0.617 total time= 0.0s

[CV 1/5; 289/1980] START leaf\_size=22, n\_neighbors=91...

[CV 2/5; 296/1980] START leaf\_size=22, n\_neighbors=98...

[CV 5/5; 294/1980] END leaf\_size=22, n\_neighbors=96;; score=0.604 total time= 0.0s

[CV 1/5; 295/1980] START leaf\_size=22, n\_neighbors=97...

[CV 4/5; 287/1980] END leaf\_size=22, n\_neighbors=89;; score=0.591 total time= 0.0s

[CV 5/5; 287/1980] START leaf\_size=22, n\_neighbors=89...

[CV 2/5; 284/1980] END leaf\_size=22, n\_neighbors=86;; score=0.598 total time= 0.0s

[CV 3/5; 284/1980] START leaf\_size=22, n\_neighbors=86...

[CV 2/5; 286/1980] END leaf\_size=22, n\_neighbors=88;; score=0.600 total time= 0.0s

[CV 3/5; 286/1980] START leaf\_size=22, n\_neighbors=88...

[CV 5/5; 291/1980] END leaf\_size=22, n\_neighbors=93;; score=0.617 total time= 0.0s

[CV 1/5; 292/1980] START leaf\_size=22, n\_neighbors=94...

[CV 3/5; 293/1980] END leaf\_size=22, n\_neighbors=95;; score=0.566 total time= 0.0s

[CV 4/5; 293/1980] START leaf\_size=22, n\_neighbors=95...

[CV 4/5; 290/1980] END leaf\_size=22, n\_neighbors=92;; score=0.582 total time=

0.0s  
 [CV 5/5; 290/1980] START leaf\_size=22, n\_neighbors=92...  
 [CV 1/5; 289/1980] END leaf\_size=22, n\_neighbors=91;; score=0.648 total time=  
 0.0s  
 [CV 2/5; 289/1980] START leaf\_size=22, n\_neighbors=91...  
 [CV 1/5; 295/1980] END leaf\_size=22, n\_neighbors=97;; score=0.641 total time=  
 0.0s  
 [CV 2/5; 295/1980] START leaf\_size=22, n\_neighbors=97...  
 [CV 2/5; 296/1980] END leaf\_size=22, n\_neighbors=98;; score=0.596 total time=  
 0.0s  
 [CV 5/5; 287/1980] END leaf\_size=22, n\_neighbors=89;; score=0.621 total time=  
 0.0s  
 [CV 3/5; 296/1980] START leaf\_size=22, n\_neighbors=98...  
 [CV 1/5; 288/1980] START leaf\_size=22, n\_neighbors=90...  
 [CV 4/5; 281/1980] END leaf\_size=22, n\_neighbors=83;; score=0.584 total time=  
 0.0s  
 [CV 5/5; 297/1980] START leaf\_size=22, n\_neighbors=99...  
 [CV 3/5; 286/1980] END leaf\_size=22, n\_neighbors=88;; score=0.562 total time=  
 0.0s  
 [CV 3/5; 299/1980] START leaf\_size=23, n\_neighbors=2...  
 [CV 3/5; 284/1980] END leaf\_size=22, n\_neighbors=86;; score=0.559 total time=  
 0.0s  
 [CV 4/5; 284/1980] START leaf\_size=22, n\_neighbors=86...  
 [CV 4/5; 293/1980] END leaf\_size=22, n\_neighbors=95;; score=0.584 total time=  
 0.0s  
 [CV 5/5; 293/1980] START leaf\_size=22, n\_neighbors=95...  
 [CV 5/5; 290/1980] END leaf\_size=22, n\_neighbors=92;; score=0.621 total time=  
 0.0s  
 [CV 1/5; 291/1980] START leaf\_size=22, n\_neighbors=93...  
 [CV 1/5; 292/1980] END leaf\_size=22, n\_neighbors=94;; score=0.644 total time=  
 0.0s  
 [CV 2/5; 292/1980] START leaf\_size=22, n\_neighbors=94...  
 [CV 2/5; 289/1980] END leaf\_size=22, n\_neighbors=91;; score=0.605 total time=  
 0.0s  
 [CV 3/5; 289/1980] START leaf\_size=22, n\_neighbors=91...  
 [CV 2/5; 295/1980] END leaf\_size=22, n\_neighbors=97;; score=0.594 total time=  
 0.0s  
 [CV 3/5; 295/1980] START leaf\_size=22, n\_neighbors=97...  
 [CV 1/5; 288/1980] END leaf\_size=22, n\_neighbors=90;; score=0.650 total time=  
 0.0s  
 [CV 3/5; 299/1980] END leaf\_size=23, n\_neighbors=2;; score=0.512 total time=  
 0.0s  
 [CV 4/5; 299/1980] START leaf\_size=23, n\_neighbors=2...  
 [CV 1/5; 301/1980] START leaf\_size=23, n\_neighbors=4...  
 [CV 5/5; 297/1980] END leaf\_size=22, n\_neighbors=99;; score=0.610 total time=  
 0.0s  
 [CV 1/5; 298/1980] START leaf\_size=23, n\_neighbors=1...  
 [CV 3/5; 296/1980] END leaf\_size=22, n\_neighbors=98;; score=0.562 total time=



0.0s  
 [CV 4/5; 296/1980] START leaf\_size=22, n\_neighbors=98...  
 [CV 5/5; 293/1980] END leaf\_size=22, n\_neighbors=95;; score=0.608 total time=  
 0.0s  
 [CV 1/5; 294/1980] START leaf\_size=22, n\_neighbors=96...  
 [CV 4/5; 284/1980] END leaf\_size=22, n\_neighbors=86;; score=0.580 total time=  
 0.0s  
 [CV 5/5; 284/1980] START leaf\_size=22, n\_neighbors=86...  
 [CV 4/5; 299/1980] END leaf\_size=23, n\_neighbors=2;; score=0.571 total time=  
 0.0s  
 [CV 5/5; 299/1980] START leaf\_size=23, n\_neighbors=2...  
 [CV 1/5; 291/1980] END leaf\_size=22, n\_neighbors=93;; score=0.646 total time=  
 0.0s  
 [CV 2/5; 291/1980] START leaf\_size=22, n\_neighbors=93...  
 [CV 3/5; 289/1980] END leaf\_size=22, n\_neighbors=91;; score=0.564 total time=  
 0.0s  
 [CV 4/5; 289/1980] START leaf\_size=22, n\_neighbors=91...  
 [CV 1/5; 298/1980] END leaf\_size=23, n\_neighbors=1;; score=0.516 total time=  
 0.0s  
 [CV 2/5; 298/1980] START leaf\_size=23, n\_neighbors=1...  
 [CV 3/5; 295/1980] END leaf\_size=22, n\_neighbors=97;; score=0.564 total time=  
 0.0s  
 [CV 4/5; 295/1980] START leaf\_size=22, n\_neighbors=97...  
 [CV 1/5; 301/1980] END leaf\_size=23, n\_neighbors=4;; score=0.562 total time=  
 0.0s  
 [CV 2/5; 301/1980] START leaf\_size=23, n\_neighbors=4...  
 [CV 2/5; 292/1980] END leaf\_size=22, n\_neighbors=94;; score=0.600 total time=  
 0.0s  
 [CV 3/5; 292/1980] START leaf\_size=22, n\_neighbors=94...  
 [CV 5/5; 299/1980] END leaf\_size=23, n\_neighbors=2;; score=0.574 total time=  
 0.0s  
 [CV 1/5; 300/1980] START leaf\_size=23, n\_neighbors=3...  
 [CV 2/5; 301/1980] END leaf\_size=23, n\_neighbors=4;; score=0.581 total time=  
 0.0s  
 [CV 3/5; 301/1980] START leaf\_size=23, n\_neighbors=4...  
 [CV 1/5; 294/1980] END leaf\_size=22, n\_neighbors=96;; score=0.637 total time=  
 0.0s  
 [CV 2/5; 294/1980] START leaf\_size=22, n\_neighbors=96...  
 [CV 2/5; 298/1980] END leaf\_size=23, n\_neighbors=1;; score=0.568 total time=  
 0.0s  
 [CV 3/5; 298/1980] START leaf\_size=23, n\_neighbors=1...  
 [CV 4/5; 296/1980] END leaf\_size=22, n\_neighbors=98;; score=0.584 total time=  
 0.0s  
 [CV 5/5; 296/1980] START leaf\_size=22, n\_neighbors=98...  
 [CV 5/5; 284/1980] END leaf\_size=22, n\_neighbors=86;; score=0.623 total time=  
 0.0s  
 [CV 2/5; 291/1980] END leaf\_size=22, n\_neighbors=93;; score=0.603 total time=  
 0.0s

[CV 1/5; 300/1980] END leaf\_size=23, n\_neighbors=3;, score=0.557 total time=0.0s  
 [CV 2/5; 300/1980] START leaf\_size=23, n\_neighbors=3...  
 [CV 4/5; 302/1980] START leaf\_size=23, n\_neighbors=5...  
 [CV 4/5; 295/1980] END leaf\_size=22, n\_neighbors=97;, score=0.580 total time=0.0s  
 [CV 5/5; 295/1980] START leaf\_size=22, n\_neighbors=97...  
 [CV 2/5; 304/1980] START leaf\_size=23, n\_neighbors=7...  
 [CV 4/5; 289/1980] END leaf\_size=22, n\_neighbors=91;, score=0.591 total time=0.0s  
 [CV 5/5; 305/1980] START leaf\_size=23, n\_neighbors=8...  
 [CV 3/5; 301/1980] END leaf\_size=23, n\_neighbors=4;, score=0.544 total time=0.0s  
 [CV 4/5; 301/1980] START leaf\_size=23, n\_neighbors=4...  
 [CV 3/5; 292/1980] END leaf\_size=22, n\_neighbors=94;, score=0.562 total time=0.0s  
 [CV 4/5; 292/1980] START leaf\_size=22, n\_neighbors=94...  
 [CV 3/5; 298/1980] END leaf\_size=23, n\_neighbors=1;, score=0.490 total time=0.0s  
 [CV 4/5; 298/1980] START leaf\_size=23, n\_neighbors=1...  
 [CV 2/5; 300/1980] END leaf\_size=23, n\_neighbors=3;, score=0.579 total time=0.0s  
 [CV 3/5; 300/1980] START leaf\_size=23, n\_neighbors=3...  
 [CV 2/5; 294/1980] END leaf\_size=22, n\_neighbors=96;, score=0.598 total time=0.0s  
 [CV 3/5; 294/1980] START leaf\_size=22, n\_neighbors=96...  
 [CV 2/5; 304/1980] END leaf\_size=23, n\_neighbors=7;, score=0.559 total time=0.0s  
 [CV 3/5; 304/1980] START leaf\_size=23, n\_neighbors=7...  
 [CV 4/5; 301/1980] END leaf\_size=23, n\_neighbors=4;, score=0.580 total time=0.0s  
 [CV 5/5; 301/1980] START leaf\_size=23, n\_neighbors=4...  
 [CV 5/5; 295/1980] END leaf\_size=22, n\_neighbors=97;, score=0.602 total time=0.0s  
 [CV 1/5; 296/1980] START leaf\_size=22, n\_neighbors=98...  
 [CV 4/5; 298/1980] END leaf\_size=23, n\_neighbors=1;, score=0.539 total time=0.0s  
 [CV 5/5; 298/1980] START leaf\_size=23, n\_neighbors=1...  
 [CV 4/5; 302/1980] END leaf\_size=23, n\_neighbors=5;, score=0.589 total time=0.0s  
 [CV 5/5; 302/1980] START leaf\_size=23, n\_neighbors=5...  
 [CV 5/5; 305/1980] END leaf\_size=23, n\_neighbors=8;, score=0.608 total time=0.0s  
 [CV 1/5; 306/1980] START leaf\_size=23, n\_neighbors=9...  
 [CV 5/5; 296/1980] END leaf\_size=22, n\_neighbors=98;, score=0.606 total time=0.0s  
 [CV 1/5; 297/1980] START leaf\_size=22, n\_neighbors=99...  
 [CV 3/5; 300/1980] END leaf\_size=23, n\_neighbors=3;, score=0.484 total time=

0.0s  
 [CV 4/5; 300/1980] START leaf\_size=23, n\_neighbors=3...  
 [CV 3/5; 304/1980] END leaf\_size=23, n\_neighbors=7;;, score=0.551 total time=  
 0.0s  
 [CV 4/5; 304/1980] START leaf\_size=23, n\_neighbors=7...  
 [CV 5/5; 301/1980] END leaf\_size=23, n\_neighbors=4;;, score=0.593 total time=  
 0.0s  
 [CV 1/5; 302/1980] START leaf\_size=23, n\_neighbors=5...  
 [CV 4/5; 292/1980] END leaf\_size=22, n\_neighbors=94;;, score=0.582 total time=  
 0.0s[CV 5/5; 298/1980] END leaf\_size=23, n\_neighbors=1;;, score=0.567 total time=  
 0.0s  
  
 [CV 1/5; 299/1980] START leaf\_size=23, n\_neighbors=2...  
 [CV 5/5; 292/1980] START leaf\_size=22, n\_neighbors=94...  
 [CV 3/5; 294/1980] END leaf\_size=22, n\_neighbors=96;;, score=0.564 total time=  
 0.0s  
 [CV 3/5; 307/1980] START leaf\_size=23, n\_neighbors=10...  
 [CV 4/5; 300/1980] END leaf\_size=23, n\_neighbors=3;;, score=0.584 total time=  
 0.0s  
 [CV 5/5; 300/1980] START leaf\_size=23, n\_neighbors=3...  
 [CV 5/5; 302/1980] END leaf\_size=23, n\_neighbors=5;;, score=0.591 total time=  
 0.0s  
 [CV 1/5; 303/1980] START leaf\_size=23, n\_neighbors=6...  
 [CV 1/5; 306/1980] END leaf\_size=23, n\_neighbors=9;;, score=0.592 total time=  
 0.0s  
 [CV 2/5; 306/1980] START leaf\_size=23, n\_neighbors=9...  
 [CV 1/5; 296/1980] END leaf\_size=22, n\_neighbors=98;;, score=0.635 total time=  
 0.0s  
 [CV 4/5; 304/1980] END leaf\_size=23, n\_neighbors=7;;, score=0.584 total time=  
 0.0s  
 [CV 5/5; 304/1980] START leaf\_size=23, n\_neighbors=7...  
 [CV 1/5; 309/1980] START leaf\_size=23, n\_neighbors=12...  
 [CV 1/5; 302/1980] END leaf\_size=23, n\_neighbors=5;;, score=0.546 total time=  
 0.0s  
 [CV 2/5; 302/1980] START leaf\_size=23, n\_neighbors=5...  
 [CV 3/5; 307/1980] END leaf\_size=23, n\_neighbors=10;;, score=0.549 total time=  
 0.0s  
 [CV 4/5; 307/1980] START leaf\_size=23, n\_neighbors=10...  
 [CV 1/5; 299/1980] END leaf\_size=23, n\_neighbors=2;;, score=0.566 total time=  
 0.0s[CV 1/5; 297/1980] END leaf\_size=22, n\_neighbors=99;;, score=0.641 total  
 time= 0.0s  
  
 [CV 2/5; 297/1980] START leaf\_size=22, n\_neighbors=99...  
 [CV 2/5; 299/1980] START leaf\_size=23, n\_neighbors=2...  
 [CV 5/5; 300/1980] END leaf\_size=23, n\_neighbors=3;;, score=0.593 total time=  
 0.0s  
 [CV 4/5; 310/1980] START leaf\_size=23, n\_neighbors=13...  
 [CV 1/5; 303/1980] END leaf\_size=23, n\_neighbors=6;;, score=0.570 total time=

0.0s  
 [CV 2/5; 303/1980] START leaf\_size=23, n\_neighbors=6...  
 [CV 2/5; 306/1980] END leaf\_size=23, n\_neighbors=9;;, score=0.570 total time=  
 0.0s  
 [CV 3/5; 306/1980] START leaf\_size=23,  
 n\_neighbors=9...[CV 5/5; 304/1980] END leaf\_size=23,  
 n\_neighbors=7;;, score=0.613 total time= 0.0s  
  
 [CV 1/5; 309/1980] END leaf\_size=23, n\_neighbors=12;;, score=0.648 total time=  
 0.0s  
 [CV 1/5; 305/1980] START leaf\_size=23, n\_neighbors=8...  
 [CV 2/5; 309/1980] START leaf\_size=23, n\_neighbors=12...  
 [CV 2/5; 302/1980] END leaf\_size=23, n\_neighbors=5;;, score=0.562 total time=  
 0.0s  
 [CV 3/5; 302/1980] START leaf\_size=23, n\_neighbors=5...  
 [CV 5/5; 292/1980] END leaf\_size=22, n\_neighbors=94;;, score=0.608 total time=  
 0.0s  
 [CV 2/5; 312/1980] START leaf\_size=23, n\_neighbors=15...  
 [CV 4/5; 307/1980] END leaf\_size=23, n\_neighbors=10;;, score=0.597 total time=  
 0.0s  
 [CV 5/5; 307/1980] START leaf\_size=23, n\_neighbors=10...  
 [CV 2/5; 299/1980] END leaf\_size=23, n\_neighbors=2;;, score=0.579 total time=  
 0.0s  
 [CV 5/5; 313/1980] START leaf\_size=23, n\_neighbors=16...  
 [CV 2/5; 303/1980] END leaf\_size=23, n\_neighbors=6;;, score=0.546 total time=  
 0.0s  
 [CV 3/5; 303/1980] START leaf\_size=23,  
 n\_neighbors=6...[CV 4/5; 310/1980] END leaf\_size=23,  
 n\_neighbors=13;;, score=0.574 total time= 0.0s  
  
 [CV 5/5; 310/1980] START leaf\_size=23, n\_neighbors=13...  
 [CV 2/5; 309/1980] END leaf\_size=23, n\_neighbors=12;;, score=0.581 total time=  
 0.0s  
 [CV 3/5; 309/1980] START leaf\_size=23, n\_neighbors=12...  
 [CV 1/5; 305/1980] END leaf\_size=23, n\_neighbors=8;;, score=0.568 total time=  
 0.0s  
 [CV 2/5; 305/1980] START leaf\_size=23, n\_neighbors=8...  
 [CV 3/5; 306/1980] END leaf\_size=23, n\_neighbors=9;;, score=0.559 total time=  
 0.0s  
 [CV 4/5; 306/1980] START leaf\_size=23, n\_neighbors=9...  
 [CV 3/5; 302/1980] END leaf\_size=23, n\_neighbors=5;;, score=0.536 total time=  
 0.0s  
 [CV 2/5; 297/1980] END leaf\_size=22, n\_neighbors=99;;, score=0.598 total time=  
 0.0s  
 [CV 3/5; 297/1980] START leaf\_size=22, n\_neighbors=99...  
 [CV 3/5; 315/1980] START leaf\_size=23, n\_neighbors=18...  
 [CV 5/5; 307/1980] END leaf\_size=23, n\_neighbors=10;;, score=0.615 total time=  
 0.0s

[CV 1/5; 308/1980] START leaf\_size=23, n\_neighbors=11...  
 [CV 3/5; 309/1980] END leaf\_size=23, n\_neighbors=12;; score=0.546 total time=0.0s  
 [CV 4/5; 309/1980] START leaf\_size=23, n\_neighbors=12...  
 [CV 5/5; 310/1980] END leaf\_size=23, n\_neighbors=13;; score=0.591 total time=0.0s  
 [CV 1/5; 311/1980] START leaf\_size=23, n\_neighbors=14...  
 [CV 2/5; 305/1980] END leaf\_size=23, n\_neighbors=8;; score=0.551 total time=0.0s  
 [CV 3/5; 305/1980] START leaf\_size=23, n\_neighbors=8...  
 [CV 3/5; 303/1980] END leaf\_size=23, n\_neighbors=6;; score=0.555 total time=0.0s  
 [CV 4/5; 303/1980] START leaf\_size=23, n\_neighbors=6...  
 [CV 2/5; 312/1980] END leaf\_size=23, n\_neighbors=15;; score=0.570 total time=0.0s  
 [CV 3/5; 312/1980] START leaf\_size=23, n\_neighbors=15...  
 [CV 5/5; 313/1980] END leaf\_size=23, n\_neighbors=16;; score=0.621 total time=0.0s  
 [CV 1/5; 314/1980] START leaf\_size=23, n\_neighbors=17...  
 [CV 4/5; 306/1980] END leaf\_size=23, n\_neighbors=9;; score=0.589 total time=0.0s  
 [CV 5/5; 306/1980] START leaf\_size=23, n\_neighbors=9...  
 [CV 3/5; 315/1980] END leaf\_size=23, n\_neighbors=18;; score=0.555 total time=0.0s  
 [CV 4/5; 315/1980] START leaf\_size=23, n\_neighbors=18...  
 [CV 1/5; 308/1980] END leaf\_size=23, n\_neighbors=11;; score=0.624 total time=0.0s  
 [CV 2/5; 308/1980] START leaf\_size=23, n\_neighbors=11...  
 [CV 4/5; 309/1980] END leaf\_size=23, n\_neighbors=12;; score=0.576 total time=0.0s  
 [CV 5/5; 309/1980] START leaf\_size=23, n\_neighbors=12...  
 [CV 3/5; 305/1980] END leaf\_size=23, n\_neighbors=8;; score=0.551 total time=0.0s  
 [CV 4/5; 305/1980] START leaf\_size=23, n\_neighbors=8...  
 [CV 1/5; 311/1980] END leaf\_size=23, n\_neighbors=14;; score=0.644 total time=0.0s  
 [CV 2/5; 311/1980] START leaf\_size=23, n\_neighbors=14...  
 [CV 3/5; 297/1980] END leaf\_size=22, n\_neighbors=99;; score=0.566 total time=0.0s  
 [CV 4/5; 297/1980] START leaf\_size=22, n\_neighbors=99...  
 [CV 4/5; 303/1980] END leaf\_size=23, n\_neighbors=6;; score=0.578 total time=0.0s  
 [CV 5/5; 303/1980] START leaf\_size=23, n\_neighbors=6...  
 [CV 5/5; 306/1980] END leaf\_size=23, n\_neighbors=9;; score=0.613 total time=0.0s  
 [CV 1/5; 307/1980] START leaf\_size=23, n\_neighbors=10...  
 [CV 3/5; 312/1980] END leaf\_size=23, n\_neighbors=15;; score=0.557 total time=0.0s

[CV 4/5; 312/1980] START leaf\_size=23, n\_neighbors=15...  
 [CV 4/5; 315/1980] END leaf\_size=23, n\_neighbors=18;; score=0.600 total time=0.0s  
 [CV 5/5; 315/1980] START leaf\_size=23, n\_neighbors=18...  
 [CV 1/5; 314/1980] END leaf\_size=23, n\_neighbors=17;; score=0.631 total time=0.0s  
 [CV 2/5; 314/1980] START leaf\_size=23, n\_neighbors=17...  
 [CV 5/5; 309/1980] END leaf\_size=23, n\_neighbors=12;; score=0.613 total time=0.0s  
 [CV 1/5; 310/1980] START leaf\_size=23, n\_neighbors=13...  
 [CV 2/5; 308/1980] END leaf\_size=23, n\_neighbors=11;; score=0.579 total time=0.0s  
 [CV 3/5; 308/1980] START leaf\_size=23, n\_neighbors=11...  
 [CV 4/5; 305/1980] END leaf\_size=23, n\_neighbors=8;; score=0.617 total time=0.0s  
 [CV 2/5; 311/1980] END leaf\_size=23, n\_neighbors=14;; score=0.572 total time=0.0s  
 [CV 3/5; 311/1980] START leaf\_size=23, n\_neighbors=14...  
 [CV 1/5; 307/1980] END leaf\_size=23, n\_neighbors=10;; score=0.611 total time=0.0s  
 [CV 2/5; 307/1980] START leaf\_size=23, n\_neighbors=10...  
 [CV 5/5; 303/1980] END leaf\_size=23, n\_neighbors=6;; score=0.582 total time=0.0s  
 [CV 1/5; 304/1980] START leaf\_size=23, n\_neighbors=7...  
 [CV 1/5; 317/1980] START leaf\_size=23, n\_neighbors=20...  
 [CV 1/5; 310/1980] END leaf\_size=23, n\_neighbors=13;; score=0.633 total time=0.0s  
 [CV 2/5; 310/1980] START leaf\_size=23, n\_neighbors=13...  
 [CV 5/5; 315/1980] END leaf\_size=23, n\_neighbors=18;; score=0.617 total time=0.0s  
 [CV 1/5; 316/1980] START leaf\_size=23, n\_neighbors=19...  
 [CV 3/5; 308/1980] END leaf\_size=23, n\_neighbors=11;; score=0.551 total time=0.0s  
 [CV 4/5; 308/1980] START leaf\_size=23, n\_neighbors=11...  
 [CV 4/5; 297/1980] END leaf\_size=22, n\_neighbors=99;; score=0.589 total time=0.0s  
 [CV 4/5; 312/1980] END leaf\_size=23, n\_neighbors=15;; score=0.584 total time=0.0s  
 [CV 5/5; 312/1980] START leaf\_size=23, n\_neighbors=15...  
 [CV 2/5; 314/1980] END leaf\_size=23, n\_neighbors=17;; score=0.568 total time=0.0s  
 [CV 3/5; 314/1980] START leaf\_size=23, n\_neighbors=17...  
 [CV 4/5; 318/1980] START leaf\_size=23, n\_neighbors=21...  
 [CV 3/5; 311/1980] END leaf\_size=23, n\_neighbors=14;; score=0.544 total time=0.0s  
 [CV 4/5; 311/1980] START leaf\_size=23,  
 n\_neighbors=14...[CV 1/5; 304/1980] END leaf\_size=23,  
 n\_neighbors=7;; score=0.568 total time= 0.0s

[CV 2/5; 310/1980] END leaf\_size=23, n\_neighbors=13;; score=0.570 total time=0.0s  
 [CV 3/5; 310/1980] START leaf\_size=23, n\_neighbors=13...  
 [CV 2/5; 307/1980] END leaf\_size=23, n\_neighbors=10;; score=0.568 total time=0.0s  
 [CV 1/5; 317/1980] END leaf\_size=23, n\_neighbors=20;; score=0.618 total time=0.0s  
 [CV 2/5; 317/1980] START leaf\_size=23, n\_neighbors=20...  
 [CV 2/5; 320/1980] START leaf\_size=23, n\_neighbors=23...  
 [CV 5/5; 321/1980] START leaf\_size=23, n\_neighbors=24...  
 [CV 4/5; 308/1980] END leaf\_size=23, n\_neighbors=11;; score=0.589 total time=0.0s  
 [CV 5/5; 308/1980] START leaf\_size=23, n\_neighbors=11...  
 [CV 1/5; 316/1980] END leaf\_size=23, n\_neighbors=19;; score=0.637 total time=0.0s  
 [CV 2/5; 316/1980] START leaf\_size=23, n\_neighbors=19...  
 [CV 5/5; 312/1980] END leaf\_size=23, n\_neighbors=15;; score=0.615 total time=0.0s  
 [CV 1/5; 313/1980] START leaf\_size=23, n\_neighbors=16...  
 [CV 4/5; 318/1980] END leaf\_size=23, n\_neighbors=21;; score=0.606 total time=0.0s  
 [CV 5/5; 318/1980] START leaf\_size=23,  
 n\_neighbors=21...[CV 3/5; 310/1980] END leaf\_size=23,  
 n\_neighbors=13;; score=0.553 total time= 0.0s  
  
 [CV 3/5; 323/1980] START leaf\_size=23, n\_neighbors=26...  
 [CV 4/5; 311/1980] END leaf\_size=23, n\_neighbors=14;; score=0.584 total time=0.0s  
 [CV 5/5; 311/1980] START leaf\_size=23, n\_neighbors=14...  
 [CV 3/5; 314/1980] END leaf\_size=23, n\_neighbors=17;; score=0.564 total time=0.0s  
 [CV 4/5; 314/1980] START leaf\_size=23, n\_neighbors=17...  
 [CV 5/5; 308/1980] END leaf\_size=23, n\_neighbors=11;; score=0.606 total time=0.0s  
 [CV 2/5; 317/1980] END leaf\_size=23, n\_neighbors=20;; score=0.583 total time=0.0s  
 [CV 3/5; 317/1980] START leaf\_size=23, n\_neighbors=20...  
 [CV 1/5; 325/1980] START leaf\_size=23, n\_neighbors=28...  
 [CV 5/5; 321/1980] END leaf\_size=23, n\_neighbors=24;; score=0.647 total time=0.0s  
 [CV 1/5; 322/1980] START leaf\_size=23, n\_neighbors=25...  
 [CV 2/5; 316/1980] END leaf\_size=23, n\_neighbors=19;; score=0.583 total time=0.0s  
 [CV 3/5; 316/1980] START leaf\_size=23, n\_neighbors=19...  
 [CV 3/5; 323/1980] END leaf\_size=23, n\_neighbors=26;; score=0.564 total time=0.0s  
 [CV 4/5; 323/1980] START leaf\_size=23, n\_neighbors=26...

[CV 5/5; 318/1980] END leaf\_size=23, n\_neighbors=21;; score=0.621 total time=0.0s  
 [CV 1/5; 319/1980] START leaf\_size=23, n\_neighbors=22...  
 [CV 1/5; 313/1980] END leaf\_size=23, n\_neighbors=16;; score=0.637 total time=0.0s  
 [CV 2/5; 320/1980] END leaf\_size=23, n\_neighbors=23;; score=0.583 total time=0.0s  
 [CV 3/5; 320/1980] START leaf\_size=23, n\_neighbors=23...  
 [CV 2/5; 313/1980] START leaf\_size=23, n\_neighbors=16...  
 [CV 5/5; 311/1980] END leaf\_size=23, n\_neighbors=14;; score=0.606 total time=0.0s  
 [CV 1/5; 312/1980] START leaf\_size=23, n\_neighbors=15...  
 [CV 3/5; 317/1980] END leaf\_size=23, n\_neighbors=20;; score=0.553 total time=0.0s  
 [CV 4/5; 317/1980] START leaf\_size=23, n\_neighbors=20...  
 [CV 1/5; 325/1980] END leaf\_size=23, n\_neighbors=28;; score=0.650 total time=0.0s  
 [CV 2/5; 325/1980] START leaf\_size=23, n\_neighbors=28...  
 [CV 1/5; 322/1980] END leaf\_size=23, n\_neighbors=25;; score=0.646 total time=0.0s  
 [CV 2/5; 322/1980] START leaf\_size=23, n\_neighbors=25...  
 [CV 3/5; 316/1980] END leaf\_size=23, n\_neighbors=19;; score=0.551 total time=0.0s  
 [CV 4/5; 316/1980] START leaf\_size=23, n\_neighbors=19...  
 [CV 4/5; 314/1980] END leaf\_size=23, n\_neighbors=17;; score=0.580 total time=0.0s  
 [CV 5/5; 314/1980] START leaf\_size=23, n\_neighbors=17...  
 [CV 4/5; 323/1980] END leaf\_size=23, n\_neighbors=26;; score=0.593 total time=0.0s  
 [CV 5/5; 323/1980] START leaf\_size=23, n\_neighbors=26...  
 [CV 1/5; 312/1980] END leaf\_size=23, n\_neighbors=15;; score=0.637 total time=0.0s  
 [CV 4/5; 326/1980] START leaf\_size=23, n\_neighbors=29...  
 [CV 1/5; 319/1980] END leaf\_size=23, n\_neighbors=22;; score=0.622 total time=0.0s  
 [CV 3/5; 320/1980] END leaf\_size=23, n\_neighbors=23;; score=0.557 total time=0.0s  
 [CV 4/5; 320/1980] START leaf\_size=23, n\_neighbors=23...  
 [CV 2/5; 319/1980] START leaf\_size=23, n\_neighbors=22...  
 [CV 2/5; 313/1980] END leaf\_size=23, n\_neighbors=16;; score=0.575 total time=0.0s  
 [CV 3/5; 313/1980] START leaf\_size=23, n\_neighbors=16...  
 [CV 4/5; 317/1980] END leaf\_size=23, n\_neighbors=20;; score=0.600 total time=0.0s  
 [CV 5/5; 317/1980] START leaf\_size=23, n\_neighbors=20...  
 [CV 2/5; 322/1980] END leaf\_size=23, n\_neighbors=25;; score=0.598 total time=0.0s  
 [CV 3/5; 322/1980] START leaf\_size=23, n\_neighbors=25...



[CV 2/5; 325/1980] END leaf\_size=23, n\_neighbors=28;; score=0.598 total time=0.0s  
 [CV 3/5; 325/1980] START leaf\_size=23, n\_neighbors=28..  
 [CV 4/5; 316/1980] END leaf\_size=23, n\_neighbors=19;; score=0.589 total time=0.0s  
 [CV 5/5; 316/1980] START leaf\_size=23, n\_neighbors=19..  
 [CV 5/5; 314/1980] END leaf\_size=23, n\_neighbors=17;; score=0.610 total time=0.0s  
 [CV 1/5; 315/1980] START leaf\_size=23, n\_neighbors=18..  
 [CV 5/5; 323/1980] END leaf\_size=23, n\_neighbors=26;; score=0.628 total time=0.0s  
 [CV 1/5; 324/1980] START leaf\_size=23, n\_neighbors=27..  
 [CV 4/5; 326/1980] END leaf\_size=23, n\_neighbors=29;; score=0.600 total time=0.0s  
 [CV 5/5; 326/1980] START leaf\_size=23, n\_neighbors=29..  
 [CV 2/5; 319/1980] END leaf\_size=23, n\_neighbors=22;; score=0.587 total time=0.0s  
 [CV 3/5; 319/1980] START leaf\_size=23, n\_neighbors=22..  
 [CV 4/5; 320/1980] END leaf\_size=23, n\_neighbors=23;; score=0.600 total time=0.0s  
 [CV 5/5; 320/1980] START leaf\_size=23, n\_neighbors=23..  
 [CV 5/5; 317/1980] END leaf\_size=23, n\_neighbors=20;; score=0.632 total time=0.0s  
 [CV 1/5; 318/1980] START leaf\_size=23, n\_neighbors=21..  
 [CV 3/5; 322/1980] END leaf\_size=23, n\_neighbors=25;; score=0.557 total time=0.0s  
 [CV 4/5; 322/1980] START leaf\_size=23, n\_neighbors=25..  
 [CV 5/5; 316/1980] END leaf\_size=23, n\_neighbors=19;; score=0.626 total time=0.0s  
 [CV 3/5; 325/1980] END leaf\_size=23, n\_neighbors=28;; score=0.568 total time=0.0s  
 [CV 4/5; 325/1980] START leaf\_size=23, n\_neighbors=28..  
 [CV 3/5; 313/1980] END leaf\_size=23, n\_neighbors=16;; score=0.557 total time=0.0s  
 [CV 4/5; 313/1980] START leaf\_size=23, n\_neighbors=16..  
 [CV 2/5; 328/1980] START leaf\_size=23, n\_neighbors=31..  
 [CV 1/5; 324/1980] END leaf\_size=23, n\_neighbors=27;; score=0.650 total time=0.0s  
 [CV 2/5; 324/1980] START leaf\_size=23, n\_neighbors=27..  
 [CV 1/5; 315/1980] END leaf\_size=23, n\_neighbors=18;; score=0.635 total time=0.0s  
 [CV 2/5; 315/1980] START leaf\_size=23, n\_neighbors=18..  
 [CV 5/5; 326/1980] END leaf\_size=23, n\_neighbors=29;; score=0.639 total time=0.0s  
 [CV 1/5; 327/1980] START leaf\_size=23, n\_neighbors=30..  
 [CV 1/5; 318/1980] END leaf\_size=23, n\_neighbors=21;; score=0.626 total time=0.0s  
 [CV 2/5; 318/1980] START leaf\_size=23, n\_neighbors=21...

[CV 3/5; 319/1980] END leaf\_size=23, n\_neighbors=22;; score=0.555 total time=0.0s  
 [CV 4/5; 319/1980] START leaf\_size=23, n\_neighbors=22...  
 [CV 5/5; 320/1980] END leaf\_size=23, n\_neighbors=23;; score=0.643 total time=0.0s  
 [CV 1/5; 321/1980] START leaf\_size=23, n\_neighbors=24...  
 [CV 4/5; 322/1980] END leaf\_size=23, n\_neighbors=25;; score=0.587 total time=0.0s  
 [CV 5/5; 322/1980] START leaf\_size=23, n\_neighbors=25...  
 [CV 4/5; 325/1980] END leaf\_size=23, n\_neighbors=28;; score=0.597 total time=0.0s  
 [CV 5/5; 325/1980] START leaf\_size=23, n\_neighbors=28...  
 [CV 2/5; 328/1980] END leaf\_size=23, n\_neighbors=31;; score=0.603 total time=0.0s  
 [CV 3/5; 328/1980] START leaf\_size=23, n\_neighbors=31...  
 [CV 2/5; 324/1980] END leaf\_size=23, n\_neighbors=27;; score=0.594 total time=0.0s  
 [CV 3/5; 324/1980] START leaf\_size=23, n\_neighbors=27...  
 [CV 4/5; 313/1980] END leaf\_size=23, n\_neighbors=16;; score=0.584 total time=0.0s  
 [CV 5/5; 329/1980] START leaf\_size=23, n\_neighbors=32...  
 [CV 1/5; 327/1980] END leaf\_size=23, n\_neighbors=30;; score=0.639 total time=0.0s  
 [CV 2/5; 327/1980] START leaf\_size=23, n\_neighbors=30...  
 [CV 2/5; 318/1980] END leaf\_size=23, n\_neighbors=21;; score=0.581 total time=0.0s  
 [CV 3/5; 318/1980] START leaf\_size=23, n\_neighbors=21...  
 [CV 2/5; 315/1980] END leaf\_size=23, n\_neighbors=18;; score=0.590 total time=0.0s  
 [CV 5/5; 322/1980] END leaf\_size=23, n\_neighbors=25;; score=0.647 total time=0.0s  
 [CV 1/5; 323/1980] START leaf\_size=23, n\_neighbors=26...  
 [CV 1/5; 321/1980] END leaf\_size=23, n\_neighbors=24;; score=0.646 total time=0.0s  
 [CV 3/5; 331/1980] START leaf\_size=23, n\_neighbors=34...  
 [CV 2/5; 321/1980] START leaf\_size=23, n\_neighbors=24...  
 [CV 4/5; 319/1980] END leaf\_size=23, n\_neighbors=22;; score=0.600 total time=0.0s  
 [CV 5/5; 319/1980] START leaf\_size=23, n\_neighbors=22...  
 [CV 5/5; 325/1980] END leaf\_size=23, n\_neighbors=28;; score=0.641 total time=0.0s  
 [CV 1/5; 326/1980] START leaf\_size=23, n\_neighbors=29...  
 [CV 3/5; 324/1980] END leaf\_size=23, n\_neighbors=27;; score=0.568 total time=0.0s  
 [CV 4/5; 324/1980] START leaf\_size=23, n\_neighbors=27...  
 [CV 3/5; 328/1980] END leaf\_size=23, n\_neighbors=31;; score=0.570 total time=0.0s  
 [CV 4/5; 328/1980] START leaf\_size=23, n\_neighbors=31...

[CV 2/5; 327/1980] END leaf\_size=23, n\_neighbors=30;; score=0.607 total time=0.0s  
 [CV 3/5; 327/1980] START leaf\_size=23, n\_neighbors=30...  
 [CV 3/5; 318/1980] END leaf\_size=23, n\_neighbors=21;; score=0.559 total time=0.0s  
 [CV 5/5; 329/1980] END leaf\_size=23, n\_neighbors=32;; score=0.628 total time=0.0s  
 [CV 1/5; 330/1980] START leaf\_size=23, n\_neighbors=33...  
 [CV 1/5; 323/1980] END leaf\_size=23, n\_neighbors=26;; score=0.639 total time=0.0s  
 [CV 2/5; 323/1980] START leaf\_size=23, n\_neighbors=26...  
 [CV 4/5; 324/1980] END leaf\_size=23, n\_neighbors=27;; score=0.593 total time=0.0s  
 [CV 5/5; 324/1980] START leaf\_size=23, n\_neighbors=27...  
 [CV 5/5; 319/1980] END leaf\_size=23, n\_neighbors=22;; score=0.628 total time=0.0s  
 [CV 1/5; 326/1980] END leaf\_size=23, n\_neighbors=29;; score=0.646 total time=0.0s  
 [CV 1/5; 320/1980] START leaf\_size=23, n\_neighbors=23...  
  
 [CV 2/5; 326/1980] START leaf\_size=23, n\_neighbors=29...  
 [CV 1/5; 333/1980] START leaf\_size=23, n\_neighbors=36...  
 [CV 2/5; 321/1980] END leaf\_size=23, n\_neighbors=24;; score=0.596 total time=0.0s  
 [CV 3/5; 321/1980] START leaf\_size=23, n\_neighbors=24...  
 [CV 4/5; 328/1980] END leaf\_size=23, n\_neighbors=31;; score=0.595 total time=0.0s  
 [CV 5/5; 328/1980] START leaf\_size=23, n\_neighbors=31...  
 [CV 3/5; 331/1980] END leaf\_size=23, n\_neighbors=34;; score=0.577 total time=0.0s  
 [CV 4/5; 331/1980] START leaf\_size=23, n\_neighbors=34...  
 [CV 3/5; 327/1980] END leaf\_size=23, n\_neighbors=30;; score=0.579 total time=0.0s  
 [CV 4/5; 327/1980] START leaf\_size=23, n\_neighbors=30...  
 [CV 5/5; 324/1980] END leaf\_size=23, n\_neighbors=27;; score=0.630 total time=0.0s  
 [CV 2/5; 323/1980] END leaf\_size=23, n\_neighbors=26;; score=0.600 total time= 0.0s  
  
 [CV 4/5; 334/1980] START leaf\_size=23, n\_neighbors=37...  
 [CV 2/5; 336/1980] START leaf\_size=23, n\_neighbors=39...  
 [CV 1/5; 320/1980] END leaf\_size=23, n\_neighbors=23;; score=0.646 total time=0.0s  
 [CV 2/5; 326/1980] END leaf\_size=23, n\_neighbors=29;; score=0.600 total time=0.0s  
 [CV 3/5; 326/1980] START leaf\_size=23, n\_neighbors=29...  
 [CV 1/5; 330/1980] END leaf\_size=23, n\_neighbors=33;; score=0.646 total time=0.0s  
 [CV 3/5; 321/1980] END leaf\_size=23, n\_neighbors=24;; score=0.564 total time= 0.0s

[CV 4/5; 321/1980] START leaf\_size=23, n\_neighbors=24...  
 [CV 2/5; 330/1980] START leaf\_size=23, n\_neighbors=33...  
 [CV 5/5; 337/1980] START leaf\_size=23, n\_neighbors=40...  
 [CV 5/5; 328/1980] END leaf\_size=23, n\_neighbors=31;; score=0.634 total time=0.0s  
 [CV 1/5; 329/1980] START leaf\_size=23, n\_neighbors=32...  
 [CV 1/5; 333/1980] END leaf\_size=23, n\_neighbors=36;; score=0.644 total time=0.0s  
 [CV 2/5; 333/1980] START leaf\_size=23, n\_neighbors=36...  
 [CV 4/5; 327/1980] END leaf\_size=23, n\_neighbors=30;; score=0.595 total time=0.0s  
 [CV 5/5; 327/1980] START leaf\_size=23, n\_neighbors=30...  
 [CV 4/5; 331/1980] END leaf\_size=23, n\_neighbors=34;; score=0.597 total time=0.0s  
 [CV 5/5; 331/1980] START leaf\_size=23, n\_neighbors=34...  
 [CV 4/5; 334/1980] END leaf\_size=23, n\_neighbors=37;; score=0.610 total time=0.0s  
 [CV 5/5; 334/1980] START leaf\_size=23, n\_neighbors=37...  
 [CV 3/5; 326/1980] END leaf\_size=23, n\_neighbors=29;; score=0.577 total time=0.0s  
 [CV 2/5; 336/1980] END leaf\_size=23, n\_neighbors=39;; score=0.609 total time=0.0s  
  
 [CV 3/5; 336/1980] START leaf\_size=23, n\_neighbors=39...  
 [CV 3/5; 339/1980] START leaf\_size=23, n\_neighbors=42...  
 [CV 4/5; 321/1980] END leaf\_size=23, n\_neighbors=24;; score=0.597 total time=0.0s  
 [CV 5/5; 337/1980] END leaf\_size=23, n\_neighbors=40;; score=0.617 total time=0.0s  
 [CV 1/5; 338/1980] START leaf\_size=23, n\_neighbors=41...  
 [CV 1/5; 341/1980] START leaf\_size=23, n\_neighbors=44...  
 [CV 1/5; 329/1980] END leaf\_size=23, n\_neighbors=32;; score=0.639 total time=0.0s  
 [CV 2/5; 329/1980] START leaf\_size=23, n\_neighbors=32...  
 [CV 2/5; 333/1980] END leaf\_size=23, n\_neighbors=36;; score=0.616 total time=0.0s  
 [CV 3/5; 333/1980] START leaf\_size=23, n\_neighbors=36...  
 [CV 5/5; 327/1980] END leaf\_size=23, n\_neighbors=30;; score=0.632 total time=0.0s  
 [CV 1/5; 328/1980] START leaf\_size=23, n\_neighbors=31...  
 [CV 2/5; 330/1980] END leaf\_size=23, n\_neighbors=33;; score=0.607 total time=0.0s  
 [CV 3/5; 330/1980] START leaf\_size=23, n\_neighbors=33...  
 [CV 5/5; 331/1980] END leaf\_size=23, n\_neighbors=34;; score=0.634 total time=0.0s  
 [CV 1/5; 332/1980] START leaf\_size=23, n\_neighbors=35...  
 [CV 5/5; 334/1980] END leaf\_size=23, n\_neighbors=37;; score=0.628 total time=0.0s

```

[CV 1/5; 335/1980] START leaf_size=23, n_neighbors=38...
[CV 3/5; 336/1980] END leaf_size=23, n_neighbors=39;; score=0.575 total time=
0.0s
[CV 4/5; 336/1980] START leaf_size=23, n_neighbors=39...
[CV 3/5; 339/1980] END leaf_size=23, n_neighbors=42;; score=0.564 total time=
0.0s
[CV 4/5; 339/1980] START leaf_size=23, n_neighbors=42...
[CV 1/5; 328/1980] END leaf_size=23, n_neighbors=31;; score=0.644 total time=
0.0s
[CV 1/5; 338/1980] END leaf_size=23, n_neighbors=41;; score=0.665 total time=
0.0s
[CV 2/5; 338/1980] START leaf_size=23, n_neighbors=41...
[CV 2/5; 329/1980] END leaf_size=23, n_neighbors=32;; score=0.605 total time=
0.0s
[CV 3/5; 329/1980] START leaf_size=23, n_neighbors=32...
[CV 3/5; 333/1980] END leaf_size=23, n_neighbors=36;; score=0.566 total time=
0.0s
[CV 4/5; 333/1980] START leaf_size=23,
n_neighbors=36...[CV 4/5; 342/1980] START leaf_size=23,
n_neighbors=45...

[CV 1/5; 341/1980] END leaf_size=23, n_neighbors=44;; score=0.667 total time=
0.0s
[CV 2/5; 341/1980] START leaf_size=23, n_neighbors=44...
[CV 3/5; 330/1980] END leaf_size=23, n_neighbors=33;; score=0.570 total time=
0.0s
[CV 4/5; 330/1980] START leaf_size=23, n_neighbors=33...
[CV 1/5; 335/1980] END leaf_size=23, n_neighbors=38;; score=0.652 total time=
0.0s
[CV 2/5; 335/1980] START leaf_size=23, n_neighbors=38...
[CV 4/5; 336/1980] END leaf_size=23, n_neighbors=39;; score=0.602 total time=
0.0s
[CV 5/5; 336/1980] START leaf_size=23, n_neighbors=39...
[CV 1/5; 332/1980] END leaf_size=23, n_neighbors=35;; score=0.650 total time=
0.0s
[CV 2/5; 332/1980] START leaf_size=23, n_neighbors=35...
[CV 4/5; 339/1980] END leaf_size=23, n_neighbors=42;; score=0.608 total time=
0.0s
[CV 5/5; 339/1980] START leaf_size=23, n_neighbors=42...
[CV 3/5; 329/1980] END leaf_size=23, n_neighbors=32;; score=0.577 total time=
0.0s
[CV 4/5; 329/1980] START leaf_size=23, n_neighbors=32...
[CV 4/5; 333/1980] END leaf_size=23, n_neighbors=36;; score=0.600 total time=
0.0s
[CV 5/5; 333/1980] START leaf_size=23, n_neighbors=36...
[CV 4/5; 342/1980] END leaf_size=23, n_neighbors=45;; score=0.600 total time=
0.0s[CV 2/5; 338/1980] END leaf_size=23, n_neighbors=41;; score=0.618 total
time= 0.0s

```

[CV 3/5; 338/1980] START leaf\_size=23, n\_neighbors=41...  
 [CV 5/5; 342/1980] START leaf\_size=23, n\_neighbors=45...  
 [CV 5/5; 336/1980] END leaf\_size=23, n\_neighbors=39;; score=0.636 total time=0.0s  
 [CV 4/5; 330/1980] END leaf\_size=23, n\_neighbors=33;; score=0.597 total time=0.0s  
 [CV 1/5; 337/1980] START leaf\_size=23, n\_neighbors=40...  
  
 [CV 5/5; 330/1980] START leaf\_size=23, n\_neighbors=33...  
 [CV 2/5; 341/1980] END leaf\_size=23, n\_neighbors=44;; score=0.613 total time=0.0s  
 [CV 3/5; 341/1980] START leaf\_size=23, n\_neighbors=44...  
 [CV 2/5; 335/1980] END leaf\_size=23, n\_neighbors=38;; score=0.613 total time=0.0s  
 [CV 3/5; 335/1980] START leaf\_size=23, n\_neighbors=38...  
 [CV 5/5; 339/1980] END leaf\_size=23, n\_neighbors=42;; score=0.621 total time=0.0s  
 [CV 1/5; 340/1980] START leaf\_size=23, n\_neighbors=43...  
 [CV 2/5; 332/1980] END leaf\_size=23, n\_neighbors=35;; score=0.607 total time=0.0s  
 [CV 3/5; 332/1980] START leaf\_size=23, n\_neighbors=35...  
 [CV 4/5; 329/1980] END leaf\_size=23, n\_neighbors=32;; score=0.593 total time=0.0s  
 [CV 2/5; 344/1980] START leaf\_size=23, n\_neighbors=47...  
 [CV 5/5; 333/1980] END leaf\_size=23, n\_neighbors=36;; score=0.628 total time=0.0s  
 [CV 1/5; 334/1980] START leaf\_size=23, n\_neighbors=37...  
 [CV 5/5; 342/1980] END leaf\_size=23, n\_neighbors=45;; score=0.619 total time=0.0s  
 [CV 1/5; 343/1980] START leaf\_size=23, n\_neighbors=46...  
 [CV 3/5; 338/1980] END leaf\_size=23, n\_neighbors=41;; score=0.568 total time=0.0s  
 [CV 4/5; 338/1980] START leaf\_size=23, n\_neighbors=41...  
 [CV 1/5; 337/1980] END leaf\_size=23, n\_neighbors=40;; score=0.661 total time=0.0s  
 [CV 2/5; 337/1980] START leaf\_size=23, n\_neighbors=40...  
 [CV 3/5; 335/1980] END leaf\_size=23, n\_neighbors=38;; score=0.566 total time=0.0s  
 [CV 4/5; 335/1980] START leaf\_size=23, n\_neighbors=38...  
 [CV 5/5; 330/1980] END leaf\_size=23, n\_neighbors=33;; score=0.630 total time=0.0s  
 [CV 3/5; 341/1980] END leaf\_size=23, n\_neighbors=44;; score=0.570 total time=0.0s  
 [CV 4/5; 341/1980] START leaf\_size=23, n\_neighbors=44...  
 [CV 1/5; 331/1980] START leaf\_size=23, n\_neighbors=34...  
 [CV 1/5; 340/1980] END leaf\_size=23, n\_neighbors=43;; score=0.674 total time=0.0s

[CV 2/5; 340/1980] START leaf\_size=23, n\_neighbors=43...  
 [CV 3/5; 332/1980] END leaf\_size=23, n\_neighbors=35;; score=0.572 total time=0.0s  
 [CV 4/5; 332/1980] START leaf\_size=23, n\_neighbors=35...  
 [CV 1/5; 334/1980] END leaf\_size=23, n\_neighbors=37;; score=0.657 total time=0.0s  
 [CV 2/5; 334/1980] START leaf\_size=23, n\_neighbors=37...  
 [CV 2/5; 344/1980] END leaf\_size=23, n\_neighbors=47;; score=0.611 total time=0.0s  
 [CV 3/5; 344/1980] START leaf\_size=23, n\_neighbors=47...  
 [CV 2/5; 337/1980] END leaf\_size=23, n\_neighbors=40;; score=0.611 total time=0.0s  
 [CV 3/5; 337/1980] START leaf\_size=23, n\_neighbors=40...  
 [CV 1/5; 343/1980] END leaf\_size=23, n\_neighbors=46;; score=0.672 total time=0.0s  
 [CV 2/5; 343/1980] START leaf\_size=23, n\_neighbors=46...  
 [CV 4/5; 338/1980] END leaf\_size=23, n\_neighbors=41;; score=0.610 total time=0.0s  
 [CV 5/5; 338/1980] START leaf\_size=23, n\_neighbors=41...  
 [CV 4/5; 335/1980] END leaf\_size=23, n\_neighbors=38;; score=0.602 total time=0.0s  
 [CV 5/5; 335/1980] START leaf\_size=23, n\_neighbors=38...  
 [CV 4/5; 341/1980] END leaf\_size=23, n\_neighbors=44;; score=0.597 total time=0.0s  
 [CV 5/5; 341/1980] START leaf\_size=23, n\_neighbors=44...  
 [CV 2/5; 340/1980] END leaf\_size=23, n\_neighbors=43;; score=0.616 total time=0.0s  
 [CV 3/5; 340/1980] START leaf\_size=23, n\_neighbors=43...  
 [CV 1/5; 331/1980] END leaf\_size=23, n\_neighbors=34;; score=0.644 total time=0.0s  
 [CV 2/5; 331/1980] START leaf\_size=23, n\_neighbors=34...  
 [CV 4/5; 332/1980] END leaf\_size=23, n\_neighbors=35;; score=0.604 total time=0.0s  
 [CV 2/5; 334/1980] END leaf\_size=23, n\_neighbors=37;; score=0.607 total time=0.0s  
 [CV 5/5; 332/1980] START leaf\_size=23, n\_neighbors=35...  
  
 [CV 3/5; 337/1980] END leaf\_size=23, n\_neighbors=40;; score=0.572 total time=0.0s  
 [CV 3/5; 334/1980] START leaf\_size=23, n\_neighbors=37...  
 [CV 4/5; 337/1980] START leaf\_size=23, n\_neighbors=40...  
 [CV 3/5; 344/1980] END leaf\_size=23, n\_neighbors=47;; score=0.572 total time=0.0s  
 [CV 2/5; 343/1980] END leaf\_size=23, n\_neighbors=46;; score=0.616 total time=0.0s  
  
 [CV 3/5; 343/1980] START leaf\_size=23, n\_neighbors=46...  
 [CV 4/5; 344/1980] START leaf\_size=23, n\_neighbors=47...

[CV 5/5; 338/1980] END leaf\_size=23, n\_neighbors=41;; score=0.619 total time=0.0s  
 [CV 1/5; 339/1980] START leaf\_size=23, n\_neighbors=42...  
 [CV 5/5; 335/1980] END leaf\_size=23, n\_neighbors=38;; score=0.634 total time=0.0s  
 [CV 1/5; 336/1980] START leaf\_size=23, n\_neighbors=39...  
 [CV 3/5; 340/1980] END leaf\_size=23, n\_neighbors=43;; score=0.566 total time=0.0s  
 [CV 4/5; 340/1980] START leaf\_size=23, n\_neighbors=43...  
 [CV 5/5; 341/1980] END leaf\_size=23, n\_neighbors=44;; score=0.615 total time=0.0s  
 [CV 1/5; 342/1980] START leaf\_size=23, n\_neighbors=45...  
 [CV 4/5; 337/1980] END leaf\_size=23, n\_neighbors=40;; score=0.595 total time=0.0s  
 [CV 5/5; 345/1980] START leaf\_size=23, n\_neighbors=48...  
 [CV 3/5; 334/1980] END leaf\_size=23, n\_neighbors=37;; score=0.568 total time=0.0s  
 [CV 2/5; 331/1980] END leaf\_size=23, n\_neighbors=34;; score=0.600 total time=0.0s  
 [CV 3/5; 343/1980] END leaf\_size=23, n\_neighbors=46;; score=0.572 total time=0.0s  
 [CV 4/5; 343/1980] START leaf\_size=23, n\_neighbors=46...  
 [CV 4/5; 344/1980] END leaf\_size=23, n\_neighbors=47;; score=0.589 total time=0.0s  
 [CV 5/5; 344/1980] START leaf\_size=23, n\_neighbors=47...  
 [CV 1/5; 349/1980] START leaf\_size=23, n\_neighbors=52...  
 [CV 1/5; 336/1980] END leaf\_size=23, n\_neighbors=39;; score=0.654 total time=0.0s  
 [CV 5/5; 332/1980] END leaf\_size=23, n\_neighbors=35;; score=0.639 total time=0.0s  
 [CV 3/5; 347/1980] START leaf\_size=23, n\_neighbors=50...  
 [CV 1/5; 339/1980] END leaf\_size=23, n\_neighbors=42;; score=0.667 total time=0.0s  
 [CV 2/5; 339/1980] START leaf\_size=23, n\_neighbors=42...  
 [CV 4/5; 340/1980] END leaf\_size=23, n\_neighbors=43;; score=0.600 total time=0.0s  
 [CV 5/5; 340/1980] START leaf\_size=23, n\_neighbors=43...  
 [CV 4/5; 350/1980] START leaf\_size=23, n\_neighbors=53...  
 [CV 1/5; 342/1980] END leaf\_size=23, n\_neighbors=45;; score=0.678 total time=0.0s  
 [CV 2/5; 342/1980] START leaf\_size=23, n\_neighbors=45...  
 [CV 2/5; 352/1980] START leaf\_size=23, n\_neighbors=55...  
 [CV 5/5; 345/1980] END leaf\_size=23, n\_neighbors=48;; score=0.630 total time=0.0s  
 [CV 1/5; 346/1980] START leaf\_size=23, n\_neighbors=49...  
 [CV 5/5; 344/1980] END leaf\_size=23, n\_neighbors=47;; score=0.623 total time=0.0s



[CV 1/5; 345/1980] START leaf\_size=23, n\_neighbors=48...  
 [CV 1/5; 349/1980] END leaf\_size=23, n\_neighbors=52;; score=0.676 total time=0.0s  
 [CV 2/5; 349/1980] START leaf\_size=23, n\_neighbors=52...  
 [CV 3/5; 347/1980] END leaf\_size=23, n\_neighbors=50;; score=0.557 total time=0.0s  
 [CV 4/5; 347/1980] START leaf\_size=23, n\_neighbors=50...  
 [CV 4/5; 343/1980] END leaf\_size=23, n\_neighbors=46;; score=0.597 total time=0.0s  
 [CV 5/5; 343/1980] START leaf\_size=23, n\_neighbors=46...  
 [CV 5/5; 340/1980] END leaf\_size=23, n\_neighbors=43;; score=0.615 total time=0.0s  
 [CV 5/5; 353/1980] START leaf\_size=23, n\_neighbors=56...  
 [CV 2/5; 339/1980] END leaf\_size=23, n\_neighbors=42;; score=0.618 total time=0.0s  
 [CV 1/5; 346/1980] END leaf\_size=23, n\_neighbors=49;; score=0.676 total time=0.0s  
 [CV 2/5; 346/1980] START leaf\_size=23, n\_neighbors=49...  
 [CV 2/5; 342/1980] END leaf\_size=23, n\_neighbors=45;; score=0.611 total time=0.0s  
 [CV 3/5; 342/1980] START leaf\_size=23, n\_neighbors=45...  
 [CV 3/5; 355/1980] START leaf\_size=23, n\_neighbors=58...  
 [CV 4/5; 350/1980] END leaf\_size=23, n\_neighbors=53;; score=0.600 total time=0.0s  
 [CV 5/5; 350/1980] START leaf\_size=23, n\_neighbors=53...  
 [CV 1/5; 345/1980] END leaf\_size=23, n\_neighbors=48;; score=0.672 total time=0.0s  
 [CV 2/5; 345/1980] START leaf\_size=23, n\_neighbors=48...  
 [CV 2/5; 349/1980] END leaf\_size=23, n\_neighbors=52;; score=0.611 total time=0.0s  
 [CV 3/5; 349/1980] START leaf\_size=23, n\_neighbors=52...  
 [CV 5/5; 353/1980] END leaf\_size=23, n\_neighbors=56;; score=0.613 total time=0.0s  
 [CV 1/5; 354/1980] START leaf\_size=23, n\_neighbors=57...  
 [CV 2/5; 346/1980] END leaf\_size=23, n\_neighbors=49;; score=0.622 total time=0.0s  
 [CV 3/5; 346/1980] START leaf\_size=23, n\_neighbors=49...  
 [CV 3/5; 342/1980] END leaf\_size=23, n\_neighbors=45;; score=0.575 total time=0.0s  
 [CV 1/5; 357/1980] START leaf\_size=23, n\_neighbors=60...  
 [CV 2/5; 352/1980] END leaf\_size=23, n\_neighbors=55;; score=0.618 total time=0.1s  
 [CV 3/5; 352/1980] START leaf\_size=23, n\_neighbors=55...  
 [CV 5/5; 343/1980] END leaf\_size=23, n\_neighbors=46;; score=0.619 total time=0.1s  
 [CV 1/5; 344/1980] START leaf\_size=23, n\_neighbors=47...  
 [CV 2/5; 345/1980] END leaf\_size=23, n\_neighbors=48;; score=0.609 total time=0.0s

[CV 3/5; 345/1980] START leaf\_size=23, n\_neighbors=48...  
 [CV 1/5; 354/1980] END leaf\_size=23, n\_neighbors=57;; score=0.665 total time=0.0s  
 [CV 3/5; 346/1980] END leaf\_size=23, n\_neighbors=49;; score=0.568 total time=0.0s  
 [CV 2/5; 354/1980] START leaf\_size=23, n\_neighbors=57...  
 [CV 4/5; 346/1980] START leaf\_size=23, n\_neighbors=49...  
 [CV 4/5; 347/1980] END leaf\_size=23, n\_neighbors=50;; score=0.597 total time=0.1s  
 [CV 5/5; 347/1980] START leaf\_size=23, n\_neighbors=50...  
 [CV 3/5; 349/1980] END leaf\_size=23, n\_neighbors=52;; score=0.566 total time=0.1s  
 [CV 1/5; 357/1980] END leaf\_size=23, n\_neighbors=60;; score=0.667 total time=0.0s  
 [CV 2/5; 357/1980] START leaf\_size=23, n\_neighbors=60...  
  
 [CV 4/5; 349/1980] START leaf\_size=23, n\_neighbors=52...  
 [CV 3/5; 355/1980] END leaf\_size=23, n\_neighbors=58;; score=0.549 total time=0.1s  
 [CV 4/5; 355/1980] START leaf\_size=23, n\_neighbors=58...  
 [CV 4/5; 346/1980] END leaf\_size=23, n\_neighbors=49;; score=0.593 total time=0.0s  
 [CV 5/5; 346/1980] START leaf\_size=23, n\_neighbors=49...  
 [CV 2/5; 354/1980] END leaf\_size=23, n\_neighbors=57;; score=0.616 total time=0.0s  
 [CV 3/5; 354/1980] START leaf\_size=23, n\_neighbors=57...  
 [CV 5/5; 350/1980] END leaf\_size=23, n\_neighbors=53;; score=0.613 total time=0.1s  
 [CV 1/5; 351/1980] START leaf\_size=23, n\_neighbors=54...  
 [CV 3/5; 352/1980] END leaf\_size=23, n\_neighbors=55;; score=0.564 total time=0.1s  
 [CV 4/5; 352/1980] START leaf\_size=23, n\_neighbors=55...  
 [CV 3/5; 345/1980] END leaf\_size=23, n\_neighbors=48;; score=0.562 total time=0.0s  
 [CV 4/5; 345/1980] START leaf\_size=23, n\_neighbors=48...  
 [CV 1/5; 344/1980] END leaf\_size=23, n\_neighbors=47;; score=0.676 total time=0.1s  
 [CV 2/5; 357/1980] END leaf\_size=23, n\_neighbors=60;; score=0.605 total time=0.0s  
 [CV 3/5; 357/1980] START leaf\_size=23, n\_neighbors=60...  
 [CV 4/5; 358/1980] START leaf\_size=23, n\_neighbors=61...  
 [CV 3/5; 354/1980] END leaf\_size=23, n\_neighbors=57;; score=0.559 total time=0.0s  
 [CV 4/5; 355/1980] END leaf\_size=23, n\_neighbors=58;; score=0.595 total time=0.0s  
 [CV 4/5; 354/1980] START leaf\_size=23, n\_neighbors=57...  
 [CV 5/5; 355/1980] START leaf\_size=23, n\_neighbors=58...  
 [CV 5/5; 346/1980] END leaf\_size=23, n\_neighbors=49;; score=0.623 total time=0.0s

[CV 1/5; 347/1980] START leaf\_size=23, n\_neighbors=50...  
 [CV 5/5; 347/1980] END leaf\_size=23, n\_neighbors=50;; score=0.619 total time=0.1s  
 [CV 1/5; 348/1980] START leaf\_size=23, n\_neighbors=51...  
 [CV 4/5; 345/1980] END leaf\_size=23, n\_neighbors=48;; score=0.589 total time=0.0s  
 [CV 4/5; 349/1980] END leaf\_size=23, n\_neighbors=52;; score=0.597 total time=0.0s  
 [CV 5/5; 349/1980] START leaf\_size=23, n\_neighbors=52...  
 [CV 2/5; 360/1980] START leaf\_size=23, n\_neighbors=63...  
 [CV 1/5; 351/1980] END leaf\_size=23, n\_neighbors=54;; score=0.667 total time=0.0s  
 [CV 2/5; 351/1980] START leaf\_size=23, n\_neighbors=54...  
 [CV 1/5; 347/1980] END leaf\_size=23, n\_neighbors=50;; score=0.678 total time=0.0s  
 [CV 2/5; 347/1980] START leaf\_size=23, n\_neighbors=50...  
 [CV 4/5; 354/1980] END leaf\_size=23, n\_neighbors=57;; score=0.597 total time=0.0s  
 [CV 5/5; 354/1980] START leaf\_size=23, n\_neighbors=57...  
 [CV 3/5; 357/1980] END leaf\_size=23, n\_neighbors=60;; score=0.553 total time=0.0s  
 [CV 4/5; 357/1980] START leaf\_size=23, n\_neighbors=60...  
 [CV 5/5; 355/1980] END leaf\_size=23, n\_neighbors=58;; score=0.610 total time=0.0s  
 [CV 1/5; 356/1980] START leaf\_size=23, n\_neighbors=59...  
 [CV 5/5; 349/1980] END leaf\_size=23, n\_neighbors=52;; score=0.619 total time=0.0s  
 [CV 1/5; 350/1980] START leaf\_size=23, n\_neighbors=53...  
 [CV 4/5; 352/1980] END leaf\_size=23, n\_neighbors=55;; score=0.593 total time=0.1s  
 [CV 5/5; 352/1980] START leaf\_size=23, n\_neighbors=55...  
 [CV 1/5; 348/1980] END leaf\_size=23, n\_neighbors=51;; score=0.680 total time=0.0s  
 [CV 2/5; 348/1980] START leaf\_size=23, n\_neighbors=51...  
 [CV 4/5; 358/1980] END leaf\_size=23, n\_neighbors=61;; score=0.604 total time=0.0s  
 [CV 5/5; 358/1980] START leaf\_size=23, n\_neighbors=61...  
 [CV 2/5; 360/1980] END leaf\_size=23, n\_neighbors=63;; score=0.609 total time=0.0s  
 [CV 3/5; 360/1980] START leaf\_size=23, n\_neighbors=63...  
 [CV 2/5; 347/1980] END leaf\_size=23, n\_neighbors=50;; score=0.603 total time=0.0s  
 [CV 5/5; 361/1980] START leaf\_size=23, n\_neighbors=64...  
 [CV 5/5; 354/1980] END leaf\_size=23, n\_neighbors=57;; score=0.610 total time=0.0s  
 [CV 1/5; 355/1980] START leaf\_size=23, n\_neighbors=58...  
 [CV 2/5; 348/1980] END leaf\_size=23, n\_neighbors=51;; score=0.618 total time=0.0s  
 [CV 1/5; 350/1980] END leaf\_size=23, n\_neighbors=53;; score=0.678 total

```

time= 0.0s

[CV 2/5; 350/1980] START leaf_size=23, n_neighbors=53...
[CV 3/5; 348/1980] START leaf_size=23, n_neighbors=51...
[CV 5/5; 358/1980] END leaf_size=23, n_neighbors=61;; score=0.606 total time=
0.0s
[CV 1/5; 359/1980] START leaf_size=23, n_neighbors=62...
[CV 1/5; 356/1980] END leaf_size=23, n_neighbors=59;; score=0.670 total time=
0.0s
[CV 2/5; 356/1980] START leaf_size=23, n_neighbors=59...
[CV 2/5; 351/1980] END leaf_size=23, n_neighbors=54;; score=0.618 total time=
0.1s[CV 3/5; 360/1980] END leaf_size=23, n_neighbors=63;; score=0.562 total
time= 0.0s
[CV 4/5; 360/1980] START leaf_size=23, n_neighbors=63...

[CV 3/5; 351/1980] START leaf_size=23, n_neighbors=54...
[CV 4/5; 357/1980] END leaf_size=23, n_neighbors=60;; score=0.602 total time=
0.1s
[CV 5/5; 357/1980] START leaf_size=23, n_neighbors=60...
[CV 5/5; 361/1980] END leaf_size=23, n_neighbors=64;; score=0.613 total time=
0.0s
[CV 1/5; 362/1980] START leaf_size=23, n_neighbors=65...
[CV 1/5; 355/1980] END leaf_size=23, n_neighbors=58;; score=0.665 total time=
0.0s
[CV 2/5; 355/1980] START leaf_size=23, n_neighbors=58...
[CV 3/5; 348/1980] END leaf_size=23, n_neighbors=51;; score=0.566 total time=
0.0s
[CV 5/5; 352/1980] END leaf_size=23, n_neighbors=55;; score=0.608 total time=
0.1s
[CV 1/5; 353/1980] START leaf_size=23,
n_neighbors=56...[CV 4/5; 348/1980] START leaf_size=23,
n_neighbors=51...

[CV 2/5; 350/1980] END leaf_size=23, n_neighbors=53;; score=0.611 total time=
0.0s
[CV 3/5; 350/1980] START leaf_size=23, n_neighbors=53...
[CV 1/5; 359/1980] END leaf_size=23, n_neighbors=62;; score=0.663 total time=
0.0s
[CV 2/5; 359/1980] START leaf_size=23, n_neighbors=62...
[CV 4/5; 360/1980] END leaf_size=23, n_neighbors=63;; score=0.604 total time=
0.0s
[CV 5/5; 360/1980] START leaf_size=23, n_neighbors=63...
[CV 2/5; 356/1980] END leaf_size=23, n_neighbors=59;; score=0.609 total time=
0.0s
[CV 3/5; 356/1980] START leaf_size=23, n_neighbors=59...
[CV 1/5; 362/1980] END leaf_size=23, n_neighbors=65;; score=0.663 total time=
0.0s
[CV 2/5; 362/1980] START leaf_size=23, n_neighbors=65...

```

[CV 5/5; 357/1980] END leaf\_size=23, n\_neighbors=60;; score=0.604 total time=0.0s  
 [CV 1/5; 358/1980] START leaf\_size=23, n\_neighbors=61...  
 [CV 2/5; 355/1980] END leaf\_size=23, n\_neighbors=58;; score=0.609 total time=0.0s  
 [CV 4/5; 348/1980] END leaf\_size=23, n\_neighbors=51;; score=0.602 total time=0.0s  
 [CV 5/5; 348/1980] START leaf\_size=23, n\_neighbors=51...  
 [CV 3/5; 363/1980] START leaf\_size=23, n\_neighbors=66...  
 [CV 3/5; 351/1980] END leaf\_size=23, n\_neighbors=54;; score=0.562 total time=0.0s  
 [CV 3/5; 350/1980] END leaf\_size=23, n\_neighbors=53;; score=0.572 total time= 0.0s  
 [CV 2/5; 359/1980] END leaf\_size=23, n\_neighbors=62;; score=0.603 total time=0.0s  
 [CV 3/5; 359/1980] START leaf\_size=23, n\_neighbors=62...  
 [CV 5/5; 360/1980] END leaf\_size=23, n\_neighbors=63;; score=0.615 total time=0.0s  
 [CV 1/5; 361/1980] START leaf\_size=23, n\_neighbors=64...  
  
 [CV 4/5; 351/1980] START leaf\_size=23, n\_neighbors=54...  
 [CV 3/5; 356/1980] END leaf\_size=23, n\_neighbors=59;; score=0.553 total time=0.0s  
 [CV 4/5; 356/1980] START leaf\_size=23, n\_neighbors=59...  
 [CV 1/5; 353/1980] END leaf\_size=23, n\_neighbors=56;; score=0.670 total time=0.0s  
 [CV 2/5; 353/1980] START leaf\_size=23, n\_neighbors=56...  
 [CV 1/5; 365/1980] START leaf\_size=23, n\_neighbors=68...  
 [CV 2/5; 362/1980] END leaf\_size=23, n\_neighbors=65;; score=0.616 total time=0.0s  
 [CV 3/5; 362/1980] START leaf\_size=23, n\_neighbors=65...  
 [CV 5/5; 348/1980] END leaf\_size=23, n\_neighbors=51;; score=0.621 total time=0.0s  
 [CV 4/5; 366/1980] START leaf\_size=23, n\_neighbors=69...  
 [CV 3/5; 363/1980] END leaf\_size=23, n\_neighbors=66;; score=0.566 total time=0.0s  
 [CV 4/5; 363/1980] START leaf\_size=23, n\_neighbors=66...  
 [CV 3/5; 359/1980] END leaf\_size=23, n\_neighbors=62;; score=0.555 total time=0.0s  
 [CV 4/5; 359/1980] START leaf\_size=23, n\_neighbors=62...  
 [CV 1/5; 361/1980] END leaf\_size=23, n\_neighbors=64;; score=0.663 total time=0.0s  
 [CV 2/5; 361/1980] START leaf\_size=23, n\_neighbors=64...  
 [CV 1/5; 365/1980] END leaf\_size=23, n\_neighbors=68;; score=0.667 total time=0.0s  
 [CV 2/5; 365/1980] START leaf\_size=23, n\_neighbors=68...  
 [CV 4/5; 356/1980] END leaf\_size=23, n\_neighbors=59;; score=0.604 total time=0.0s  
 [CV 5/5; 356/1980] START leaf\_size=23, n\_neighbors=59...

[CV 1/5; 358/1980] END leaf\_size=23, n\_neighbors=61;; score=0.665 total time=0.1s  
 [CV 2/5; 358/1980] START leaf\_size=23, n\_neighbors=61...  
 [CV 2/5; 353/1980] END leaf\_size=23, n\_neighbors=56;; score=0.609 total time=0.0s  
 [CV 3/5; 353/1980] START leaf\_size=23, n\_neighbors=56...  
 [CV 3/5; 362/1980] END leaf\_size=23, n\_neighbors=65;; score=0.566 total time=0.0s  
 [CV 4/5; 362/1980] START leaf\_size=23, n\_neighbors=65...[CV 4/5; 363/1980] END leaf\_size=23, n\_neighbors=66;; score=0.574 total time= 0.0s  
 [CV 5/5; 363/1980] START leaf\_size=23, n\_neighbors=66...  
 [CV 4/5; 366/1980] END leaf\_size=23, n\_neighbors=69;; score=0.582 total time=0.0s  
 [CV 5/5; 366/1980] START leaf\_size=23, n\_neighbors=69...  
 [CV 4/5; 351/1980] END leaf\_size=23, n\_neighbors=54;; score=0.595 total time=0.1s  
 [CV 4/5; 359/1980] END leaf\_size=23, n\_neighbors=62;; score=0.600 total time=0.0s  
 [CV 5/5; 359/1980] START leaf\_size=23, n\_neighbors=62...  
 [CV 2/5; 361/1980] END leaf\_size=23, n\_neighbors=64;; score=0.609 total time=0.0s  
 [CV 3/5; 361/1980] START leaf\_size=23, n\_neighbors=64...  
 [CV 2/5; 365/1980] END leaf\_size=23, n\_neighbors=68;; score=0.609 total time=0.0s  
 [CV 3/5; 365/1980] START leaf\_size=23, n\_neighbors=68...  
  
 [CV 5/5; 351/1980] START leaf\_size=23, n\_neighbors=54...  
 [CV 5/5; 356/1980] END leaf\_size=23, n\_neighbors=59;; score=0.610 total time=0.0s  
 [CV 2/5; 368/1980] START leaf\_size=23, n\_neighbors=71...  
 [CV 2/5; 358/1980] END leaf\_size=23, n\_neighbors=61;; score=0.603 total time=0.0s  
 [CV 3/5; 358/1980] START leaf\_size=23, n\_neighbors=61...  
 [CV 3/5; 353/1980] END leaf\_size=23, n\_neighbors=56;; score=0.551 total time=0.0s  
 [CV 4/5; 353/1980] START leaf\_size=23, n\_neighbors=56...  
 [CV 5/5; 363/1980] END leaf\_size=23, n\_neighbors=66;; score=0.613 total time=0.0s  
 [CV 1/5; 364/1980] START leaf\_size=23, n\_neighbors=67...  
 [CV 5/5; 366/1980] END leaf\_size=23, n\_neighbors=69;; score=0.621 total time=0.0s  
 [CV 1/5; 367/1980] START leaf\_size=23, n\_neighbors=70...  
 [CV 5/5; 359/1980] END leaf\_size=23, n\_neighbors=62;; score=0.610 total time=0.0s  
 [CV 1/5; 360/1980] START leaf\_size=23, n\_neighbors=63...  
 [CV 3/5; 361/1980] END leaf\_size=23, n\_neighbors=64;; score=0.562 total time=0.0s

[CV 4/5; 361/1980] START leaf\_size=23, n\_neighbors=64...  
 [CV 3/5; 365/1980] END leaf\_size=23, n\_neighbors=68;; score=0.566 total time=0.0s  
 [CV 4/5; 362/1980] END leaf\_size=23, n\_neighbors=65;; score=0.591 total time=0.0s  
 [CV 4/5; 365/1980] START leaf\_size=23, n\_neighbors=68...  
 [CV 5/5; 362/1980] START leaf\_size=23, n\_neighbors=65...  
 [CV 3/5; 358/1980] END leaf\_size=23, n\_neighbors=61;; score=0.557 total time=0.0s  
 [CV 1/5; 364/1980] END leaf\_size=23, n\_neighbors=67;; score=0.663 total time=0.0s  
 [CV 2/5; 364/1980] START leaf\_size=23, n\_neighbors=67...  
 [CV 5/5; 369/1980] START leaf\_size=23, n\_neighbors=72...  
 [CV 1/5; 367/1980] END leaf\_size=23, n\_neighbors=70;; score=0.663 total time=0.0s  
 [CV 2/5; 367/1980] START leaf\_size=23, n\_neighbors=70...  
 [CV 4/5; 353/1980] END leaf\_size=23, n\_neighbors=56;; score=0.591 total time=0.0s  
 [CV 2/5; 368/1980] END leaf\_size=23, n\_neighbors=71;; score=0.616 total time=0.0s  
 [CV 3/5; 368/1980] START leaf\_size=23, n\_neighbors=71...  
 [CV 3/5; 371/1980] START leaf\_size=23, n\_neighbors=74...  
 [CV 5/5; 351/1980] END leaf\_size=23, n\_neighbors=54;; score=0.608 total time=0.1s  
 [CV 1/5; 352/1980] START leaf\_size=23, n\_neighbors=55...  
 [CV 1/5; 360/1980] END leaf\_size=23, n\_neighbors=63;; score=0.665 total time=0.0s  
 [CV 4/5; 361/1980] END leaf\_size=23, n\_neighbors=64;; score=0.593 total time=0.0s  
 [CV 4/5; 374/1980] START leaf\_size=23, n\_neighbors=77...  
 [CV 5/5; 362/1980] END leaf\_size=23, n\_neighbors=65;; score=0.621 total time=0.0s  
 [CV 1/5; 373/1980] START leaf\_size=23, n\_neighbors=76...  
 [CV 1/5; 363/1980] START leaf\_size=23, n\_neighbors=66...  
 [CV 4/5; 365/1980] END leaf\_size=23, n\_neighbors=68;; score=0.576 total time=0.0s  
 [CV 5/5; 365/1980] START leaf\_size=23, n\_neighbors=68...  
 [CV 2/5; 364/1980] END leaf\_size=23, n\_neighbors=67;; score=0.611 total time=0.0s  
 [CV 3/5; 364/1980] START leaf\_size=23, n\_neighbors=67...  
 [CV 2/5; 367/1980] END leaf\_size=23, n\_neighbors=70;; score=0.607 total time=0.0s  
 [CV 3/5; 367/1980] START leaf\_size=23, n\_neighbors=70...  
 [CV 1/5; 363/1980] END leaf\_size=23, n\_neighbors=66;; score=0.663 total time=0.0s  
 [CV 2/5; 363/1980] START leaf\_size=23, n\_neighbors=66...  
 [CV 5/5; 365/1980] END leaf\_size=23, n\_neighbors=68;; score=0.615 total time=0.0s

[CV 1/5; 366/1980] START leaf\_size=23, n\_neighbors=69...  
 [CV 4/5; 374/1980] END leaf\_size=23, n\_neighbors=77;; score=0.580 total time=0.0s  
 [CV 5/5; 374/1980] START leaf\_size=23, n\_neighbors=77...  
 [CV 1/5; 373/1980] END leaf\_size=23, n\_neighbors=76;; score=0.667 total time=0.0s  
 [CV 2/5; 373/1980] START leaf\_size=23, n\_neighbors=76...  
 [CV 3/5; 371/1980] END leaf\_size=23, n\_neighbors=74;; score=0.557 total time=0.0s  
 [CV 4/5; 371/1980] START leaf\_size=23, n\_neighbors=74...  
 [CV 3/5; 368/1980] END leaf\_size=23, n\_neighbors=71;; score=0.562 total time=0.0s  
 [CV 4/5; 368/1980] START leaf\_size=23, n\_neighbors=71...  
 [CV 5/5; 369/1980] END leaf\_size=23, n\_neighbors=72;; score=0.613 total time=0.1s  
 [CV 1/5; 370/1980] START leaf\_size=23, n\_neighbors=73...  
 [CV 1/5; 352/1980] END leaf\_size=23, n\_neighbors=55;; score=0.667 total time=0.0s  
 [CV 3/5; 364/1980] END leaf\_size=23, n\_neighbors=67;; score=0.564 total time=0.0s  
 [CV 4/5; 364/1980] START leaf\_size=23, n\_neighbors=67...  
 [CV 2/5; 376/1980] START leaf\_size=23, n\_neighbors=79...  
 [CV 3/5; 367/1980] END leaf\_size=23, n\_neighbors=70;; score=0.559 total time=0.0s  
 [CV 4/5; 367/1980] START leaf\_size=23, n\_neighbors=70...  
 [CV 2/5; 363/1980] END leaf\_size=23, n\_neighbors=66;; score=0.609 total time=0.0s  
 [CV 5/5; 377/1980] START leaf\_size=23, n\_neighbors=80...  
 [CV 1/5; 366/1980] END leaf\_size=23, n\_neighbors=69;; score=0.663 total time=0.0s  
 [CV 2/5; 366/1980] START leaf\_size=23,  
 n\_neighbors=69...[CV 5/5; 374/1980] END leaf\_size=23,  
 n\_neighbors=77;; score=0.617 total time= 0.0s  
  
 [CV 1/5; 375/1980] START leaf\_size=23, n\_neighbors=78...  
 [CV 2/5; 373/1980] END leaf\_size=23, n\_neighbors=76;; score=0.603 total time=0.0s  
 [CV 3/5; 373/1980] START leaf\_size=23, n\_neighbors=76...  
 [CV 4/5; 364/1980] END leaf\_size=23, n\_neighbors=67;; score=0.587 total time=0.0s  
 [CV 5/5; 364/1980] START leaf\_size=23, n\_neighbors=67...  
 [CV 4/5; 368/1980] END leaf\_size=23, n\_neighbors=71;; score=0.587 total time=0.0s  
 [CV 5/5; 368/1980] START leaf\_size=23, n\_neighbors=71...  
 [CV 1/5; 370/1980] END leaf\_size=23, n\_neighbors=73;; score=0.663 total time=0.0s  
 [CV 2/5; 370/1980] START leaf\_size=23, n\_neighbors=73...  
 [CV 4/5; 371/1980] END leaf\_size=23, n\_neighbors=74;; score=0.591 total time=



0.0s  
 [CV 5/5; 371/1980] START leaf\_size=23, n\_neighbors=74...  
 [CV 4/5; 367/1980] END leaf\_size=23, n\_neighbors=70;;, score=0.589 total time=  
 0.0s  
 [CV 5/5; 367/1980] START leaf\_size=23, n\_neighbors=70...  
 [CV 2/5; 376/1980] END leaf\_size=23, n\_neighbors=79;;, score=0.598 total time=  
 0.0s  
 [CV 3/5; 376/1980] START leaf\_size=23, n\_neighbors=79...  
 [CV 5/5; 377/1980] END leaf\_size=23, n\_neighbors=80;;, score=0.628 total time=  
 0.0s  
 [CV 1/5; 378/1980] START leaf\_size=23, n\_neighbors=81...  
 [CV 2/5; 366/1980] END leaf\_size=23, n\_neighbors=69;;, score=0.609 total time=  
 0.0s  
 [CV 3/5; 366/1980] START leaf\_size=23, n\_neighbors=69...  
 [CV 1/5; 375/1980] END leaf\_size=23, n\_neighbors=78;;, score=0.659 total time=  
 0.0s  
 [CV 2/5; 375/1980] START leaf\_size=23, n\_neighbors=78...  
 [CV 3/5; 373/1980] END leaf\_size=23, n\_neighbors=76;;, score=0.557 total time=  
 0.0s  
 [CV 4/5; 373/1980] START leaf\_size=23, n\_neighbors=76...  
 [CV 5/5; 364/1980] END leaf\_size=23, n\_neighbors=67;;, score=0.613 total time=  
 0.0s  
 [CV 3/5; 379/1980] START leaf\_size=23, n\_neighbors=82...  
 [CV 5/5; 367/1980] END leaf\_size=23, n\_neighbors=70;;, score=0.606 total time=  
 0.0s  
 [CV 1/5; 368/1980] START leaf\_size=23, n\_neighbors=71...  
 [CV 5/5; 368/1980] END leaf\_size=23, n\_neighbors=71;;, score=0.613 total time=  
 0.0s  
 [CV 1/5; 369/1980] START leaf\_size=23, n\_neighbors=72...  
 [CV 5/5; 371/1980] END leaf\_size=23, n\_neighbors=74;;, score=0.623 total time=  
 0.0s  
 [CV 1/5; 372/1980] START leaf\_size=23, n\_neighbors=75...  
 [CV 1/5; 378/1980] END leaf\_size=23, n\_neighbors=81;;, score=0.659 total time=  
 0.0s  
 [CV 2/5; 378/1980] START leaf\_size=23, n\_neighbors=81...  
 [CV 3/5; 366/1980] END leaf\_size=23, n\_neighbors=69;;, score=0.568 total time=  
 0.0s  
 [CV 2/5; 375/1980] END leaf\_size=23, n\_neighbors=78;;, score=0.603 total time=  
 0.0s  
 [CV 3/5; 375/1980] START leaf\_size=23, n\_neighbors=78...  
 [CV 2/5; 370/1980] END leaf\_size=23, n\_neighbors=73;;, score=0.605 total time=  
 0.1s  
 [CV 3/5; 370/1980] START leaf\_size=23, n\_neighbors=73...  
 [CV 4/5; 373/1980] END leaf\_size=23, n\_neighbors=76;;, score=0.578 total time=  
 0.0s  
 [CV 5/5; 373/1980] START leaf\_size=23, n\_neighbors=76...  
 [CV 1/5; 381/1980] START leaf\_size=23, n\_neighbors=84...  
 [CV 3/5; 376/1980] END leaf\_size=23, n\_neighbors=79;;, score=0.557 total time=

```

0.0s
[CV 4/5; 376/1980] START leaf_size=23, n_neighbors=79...
[CV 3/5; 379/1980] END leaf_size=23, n_neighbors=82;; score=0.566 total time=
0.0s
[CV 4/5; 379/1980] START leaf_size=23, n_neighbors=82...
[CV 1/5; 368/1980] END leaf_size=23, n_neighbors=71;; score=0.670 total time=
0.0s
[CV 4/5; 382/1980] START leaf_size=23, n_neighbors=85...
[CV 2/5; 378/1980] END leaf_size=23, n_neighbors=81;; score=0.596 total time=
0.0s
[CV 3/5; 378/1980] START leaf_size=23, n_neighbors=81...
[CV 3/5; 375/1980] END leaf_size=23, n_neighbors=78;; score=0.555 total time=
0.0s
[CV 4/5; 375/1980] START leaf_size=23, n_neighbors=78...
[CV 1/5; 372/1980] END leaf_size=23, n_neighbors=75;; score=0.667 total time=
0.0s
[CV 2/5; 372/1980] START leaf_size=23, n_neighbors=75...
[CV 5/5; 373/1980] END leaf_size=23, n_neighbors=76;; score=0.621 total time=
0.0s
[CV 1/5; 374/1980] START leaf_size=23, n_neighbors=77...
[CV 3/5; 370/1980] END leaf_size=23, n_neighbors=73;; score=0.566 total time=
0.0s
[CV 4/5; 370/1980] START leaf_size=23, n_neighbors=73...
[CV 1/5; 369/1980] END leaf_size=23, n_neighbors=72;; score=0.663 total time=
0.1s
[CV 2/5; 369/1980] START leaf_size=23, n_neighbors=72...
[CV 1/5; 381/1980] END leaf_size=23, n_neighbors=84;; score=0.654 total time=
0.0s
[CV 2/5; 381/1980] START leaf_size=23, n_neighbors=84...
[CV 4/5; 379/1980] END leaf_size=23, n_neighbors=82;; score=0.587 total time=
0.0s
[CV 5/5; 379/1980] START leaf_size=23, n_neighbors=82...
[CV 4/5; 382/1980] END leaf_size=23, n_neighbors=85;; score=0.576 total time=
0.0s
[CV 5/5; 382/1980] START leaf_size=23, n_neighbors=85...
[CV 4/5; 376/1980] END leaf_size=23, n_neighbors=79;; score=0.584 total time=
0.0s
[CV 5/5; 376/1980] START leaf_size=23, n_neighbors=79...
[CV 3/5; 378/1980] END leaf_size=23, n_neighbors=81;; score=0.562 total time=
0.0s
[CV 4/5; 378/1980] START leaf_size=23, n_neighbors=81...
[CV 4/5; 375/1980] END leaf_size=23, n_neighbors=78;; score=0.571 total time=
0.0s
[CV 5/5; 375/1980] START leaf_size=23, n_neighbors=78...
[CV 1/5; 374/1980] END leaf_size=23, n_neighbors=77;; score=0.667 total time=
0.0s
[CV 2/5; 374/1980] START leaf_size=23, n_neighbors=77...
[CV 2/5; 372/1980] END leaf_size=23, n_neighbors=75;; score=0.603 total time=

```

0.0s  
 [CV 3/5; 372/1980] START leaf\_size=23, n\_neighbors=75...  
 [CV 2/5; 369/1980] END leaf\_size=23, n\_neighbors=72;;, score=0.607 total time=  
 0.0s  
 [CV 3/5; 369/1980] START leaf\_size=23, n\_neighbors=72...  
 [CV 5/5; 382/1980] END leaf\_size=23, n\_neighbors=85;;, score=0.626 total time=  
 0.0s  
 [CV 1/5; 383/1980] START leaf\_size=23, n\_neighbors=86...  
 [CV 2/5; 381/1980] END leaf\_size=23, n\_neighbors=84;;, score=0.603 total time=  
 0.0s  
 [CV 3/5; 381/1980] START leaf\_size=23, n\_neighbors=84...  
 [CV 5/5; 379/1980] END leaf\_size=23, n\_neighbors=82;;, score=0.630 total time=  
 0.0s  
 [CV 1/5; 380/1980] START leaf\_size=23, n\_neighbors=83...  
 [CV 4/5; 378/1980] END leaf\_size=23, n\_neighbors=81;;, score=0.587 total time=  
 0.0s  
 [CV 5/5; 378/1980] START leaf\_size=23, n\_neighbors=81...  
 [CV 4/5; 370/1980] END leaf\_size=23, n\_neighbors=73;;, score=0.591 total time=  
 0.1s  
 [CV 5/5; 370/1980] START leaf\_size=23, n\_neighbors=73...  
 [CV 5/5; 375/1980] END leaf\_size=23, n\_neighbors=78;;, score=0.628 total time=  
 0.0s  
 [CV 1/5; 376/1980] START leaf\_size=23, n\_neighbors=79...  
 [CV 2/5; 374/1980] END leaf\_size=23, n\_neighbors=77;;, score=0.605 total time=  
 0.0s  
 [CV 3/5; 374/1980] START leaf\_size=23, n\_neighbors=77...  
 [CV 1/5; 383/1980] END leaf\_size=23, n\_neighbors=86;;, score=0.648 total time=  
 0.0s  
 [CV 2/5; 383/1980] START leaf\_size=23, n\_neighbors=86...  
 [CV 3/5; 372/1980] END leaf\_size=23, n\_neighbors=75;;, score=0.555 total time=  
 0.0s  
 [CV 4/5; 372/1980] START leaf\_size=23, n\_neighbors=75...  
 [CV 3/5; 381/1980] END leaf\_size=23, n\_neighbors=84;;, score=0.555 total time=  
 0.0s  
 [CV 4/5; 381/1980] START leaf\_size=23, n\_neighbors=84...  
 [CV 5/5; 378/1980] END leaf\_size=23, n\_neighbors=81;;, score=0.626 total time=  
 0.0s  
 [CV 1/5; 379/1980] START leaf\_size=23, n\_neighbors=82...  
 [CV 1/5; 380/1980] END leaf\_size=23, n\_neighbors=83;;, score=0.650 total time=  
 0.0s  
 [CV 2/5; 380/1980] START leaf\_size=23, n\_neighbors=83...  
 [CV 5/5; 376/1980] END leaf\_size=23, n\_neighbors=79;;, score=0.619 total time=  
 0.1s  
 [CV 1/5; 377/1980] START leaf\_size=23, n\_neighbors=80...  
 [CV 1/5; 376/1980] END leaf\_size=23, n\_neighbors=79;;, score=0.659 total time=  
 0.0s  
 [CV 5/5; 370/1980] END leaf\_size=23, n\_neighbors=73;;, score=0.628 total time=  
 0.0s

[CV 1/5; 371/1980] START leaf\_size=23, n\_neighbors=74...  
 [CV 2/5; 384/1980] START leaf\_size=23, n\_neighbors=87...  
 [CV 3/5; 369/1980] END leaf\_size=23, n\_neighbors=72;;, score=0.562 total time=0.1s  
 [CV 4/5; 369/1980] START leaf\_size=23, n\_neighbors=72...  
 [CV 3/5; 374/1980] END leaf\_size=23, n\_neighbors=77;;, score=0.562 total time=0.0s  
 [CV 5/5; 385/1980] START leaf\_size=23, n\_neighbors=88...  
 [CV 2/5; 383/1980] END leaf\_size=23, n\_neighbors=86;;, score=0.598 total time=0.0s  
 [CV 3/5; 383/1980] START leaf\_size=23, n\_neighbors=86...  
 [CV 1/5; 379/1980] END leaf\_size=23, n\_neighbors=82;;, score=0.659 total time=0.0s  
 [CV 2/5; 379/1980] START leaf\_size=23, n\_neighbors=82...  
 [CV 4/5; 381/1980] END leaf\_size=23, n\_neighbors=84;;, score=0.582 total time=0.0s  
 [CV 5/5; 381/1980] START leaf\_size=23, n\_neighbors=84...  
 [CV 4/5; 372/1980] END leaf\_size=23, n\_neighbors=75;;, score=0.591 total time=0.0s  
 [CV 5/5; 372/1980] START leaf\_size=23, n\_neighbors=75...  
 [CV 2/5; 380/1980] END leaf\_size=23, n\_neighbors=83;;, score=0.596 total time=0.0s  
 [CV 3/5; 380/1980] START leaf\_size=23, n\_neighbors=83...  
 [CV 2/5; 384/1980] END leaf\_size=23, n\_neighbors=87;;, score=0.603 total time=0.0s  
 [CV 3/5; 384/1980] START leaf\_size=23, n\_neighbors=87...  
 [CV 1/5; 371/1980] END leaf\_size=23, n\_neighbors=74;;, score=0.661 total time=0.0s  
 [CV 2/5; 371/1980] START leaf\_size=23, n\_neighbors=74...  
 [CV 1/5; 377/1980] END leaf\_size=23, n\_neighbors=80;;, score=0.659 total time=0.0s  
 [CV 2/5; 377/1980] START leaf\_size=23, n\_neighbors=80...  
 [CV 5/5; 385/1980] END leaf\_size=23, n\_neighbors=88;;, score=0.617 total time=0.0s  
 [CV 1/5; 386/1980] START leaf\_size=23, n\_neighbors=89...  
 [CV 4/5; 369/1980] END leaf\_size=23, n\_neighbors=72;;, score=0.593 total time=0.0s  
 [CV 3/5; 387/1980] START leaf\_size=23, n\_neighbors=90...  
 [CV 3/5; 383/1980] END leaf\_size=23, n\_neighbors=86;;, score=0.559 total time=0.0s  
 [CV 4/5; 383/1980] START leaf\_size=23, n\_neighbors=86...  
 [CV 2/5; 379/1980] END leaf\_size=23, n\_neighbors=82;;, score=0.600 total time=0.0s  
 [CV 1/5; 389/1980] START leaf\_size=23, n\_neighbors=92...  
 [CV 5/5; 381/1980] END leaf\_size=23, n\_neighbors=84;;, score=0.626 total time=0.0s  
 [CV 1/5; 382/1980] START leaf\_size=23, n\_neighbors=85...  
 [CV 3/5; 384/1980] END leaf\_size=23, n\_neighbors=87;;, score=0.562 total time=

0.0s  
 [CV 3/5; 380/1980] END leaf\_size=23, n\_neighbors=83;; score=0.564 total time=  
 0.0s  
 [CV 4/5; 384/1980] START leaf\_size=23, n\_neighbors=87...  
 [CV 4/5; 380/1980] START leaf\_size=23, n\_neighbors=83...  
 [CV 5/5; 372/1980] END leaf\_size=23, n\_neighbors=75;; score=0.632 total time=  
 0.0s  
 [CV 4/5; 390/1980] START leaf\_size=23, n\_neighbors=93...  
 [CV 2/5; 377/1980] END leaf\_size=23, n\_neighbors=80;; score=0.594 total time=  
 0.0s  
 [CV 3/5; 377/1980] START leaf\_size=23, n\_neighbors=80...  
 [CV 1/5; 386/1980] END leaf\_size=23, n\_neighbors=89;; score=0.646 total time=  
 0.0s  
 [CV 2/5; 386/1980] START leaf\_size=23, n\_neighbors=89...  
 [CV 4/5; 383/1980] END leaf\_size=23, n\_neighbors=86;; score=0.580 total time=  
 0.0s  
 [CV 5/5; 383/1980] START leaf\_size=23, n\_neighbors=86...  
 [CV 2/5; 371/1980] END leaf\_size=23, n\_neighbors=74;; score=0.607 total time=  
 0.1s  
 [CV 2/5; 392/1980] START leaf\_size=23, n\_neighbors=95...  
 [CV 1/5; 389/1980] END leaf\_size=23, n\_neighbors=92;; score=0.646 total time=  
 0.0s  
 [CV 2/5; 389/1980] START leaf\_size=23, n\_neighbors=92...  
 [CV 3/5; 387/1980] END leaf\_size=23, n\_neighbors=90;; score=0.564 total time=  
 0.0s  
 [CV 4/5; 387/1980] START leaf\_size=23, n\_neighbors=90...  
 [CV 4/5; 384/1980] END leaf\_size=23, n\_neighbors=87;; score=0.584 total time=  
 0.0s  
 [CV 5/5; 384/1980] START leaf\_size=23, n\_neighbors=87...  
 [CV 4/5; 380/1980] END leaf\_size=23, n\_neighbors=83;; score=0.584 total time=  
 0.0s  
 [CV 5/5; 380/1980] START leaf\_size=23, n\_neighbors=83...  
 [CV 1/5; 382/1980] END leaf\_size=23, n\_neighbors=85;; score=0.650 total time=  
 0.0s  
 [CV 2/5; 382/1980] START leaf\_size=23, n\_neighbors=85...  
 [CV 2/5; 386/1980] END leaf\_size=23, n\_neighbors=89;; score=0.600 total time=  
 0.0s  
 [CV 3/5; 386/1980] START leaf\_size=23, n\_neighbors=89...  
 [CV 3/5; 377/1980] END leaf\_size=23, n\_neighbors=80;; score=0.564 total time=  
 0.0s  
 [CV 4/5; 377/1980] START leaf\_size=23, n\_neighbors=80...  
 [CV 5/5; 383/1980] END leaf\_size=23, n\_neighbors=86;; score=0.623 total time=  
 0.0s  
 [CV 1/5; 384/1980] START leaf\_size=23, n\_neighbors=87...  
 [CV 4/5; 390/1980] END leaf\_size=23, n\_neighbors=93;; score=0.587 total time=  
 0.0s  
 [CV 5/5; 390/1980] START leaf\_size=23, n\_neighbors=93...  
 [CV 2/5; 389/1980] END leaf\_size=23, n\_neighbors=92;; score=0.598 total time=

```

0.0s
[CV 3/5; 389/1980] START leaf_size=23, n_neighbors=92...
[CV 2/5; 392/1980] END leaf_size=23, n_neighbors=95;; score=0.603 total time=
0.0s
[CV 3/5; 392/1980] START leaf_size=23, n_neighbors=95...
[CV 5/5; 384/1980] END leaf_size=23, n_neighbors=87;; score=0.619 total time=
0.0s
[CV 1/5; 385/1980] START leaf_size=23, n_neighbors=88...
[CV 5/5; 380/1980] END leaf_size=23, n_neighbors=83;; score=0.619 total time=
0.0s
[CV 2/5; 382/1980] END leaf_size=23, n_neighbors=85;; score=0.600 total time=
0.0s
[CV 4/5; 387/1980] END leaf_size=23, n_neighbors=90;; score=0.580 total time=
0.0s
[CV 3/5; 382/1980] START leaf_size=23, n_neighbors=85...
[CV 5/5; 387/1980] START leaf_size=23, n_neighbors=90...
[CV 5/5; 393/1980] START leaf_size=23, n_neighbors=96...
[CV 3/5; 386/1980] END leaf_size=23, n_neighbors=89;; score=0.564 total time=
0.0s
[CV 4/5; 386/1980] START leaf_size=23, n_neighbors=89...
[CV 4/5; 377/1980] END leaf_size=23, n_neighbors=80;; score=0.584 total time=
0.0s
[CV 3/5; 395/1980] START leaf_size=23, n_neighbors=98...
[CV 1/5; 384/1980] END leaf_size=23, n_neighbors=87;; score=0.650 total time=
0.0s
[CV 3/5; 389/1980] END leaf_size=23, n_neighbors=92;; score=0.564 total time=
0.0s
[CV 4/5; 389/1980] START leaf_size=23, n_neighbors=92...
[CV 1/5; 397/1980] START leaf_size=24, n_neighbors=1...
[CV 1/5; 385/1980] END leaf_size=23, n_neighbors=88;; score=0.652 total time=
0.0s
[CV 2/5; 385/1980] START leaf_size=23, n_neighbors=88...
[CV 5/5; 390/1980] END leaf_size=23, n_neighbors=93;; score=0.617 total time=
0.1s
[CV 1/5; 391/1980] START leaf_size=23, n_neighbors=94...
[CV 3/5; 382/1980] END leaf_size=23, n_neighbors=85;; score=0.557 total time=
0.0s
[CV 4/5; 398/1980] START leaf_size=24, n_neighbors=2...
[CV 4/5; 386/1980] END leaf_size=23, n_neighbors=89;; score=0.591 total time=
0.0s
[CV 5/5; 386/1980] START leaf_size=23, n_neighbors=89...
[CV 5/5; 393/1980] END leaf_size=23, n_neighbors=96;; score=0.604 total time=
0.0s
[CV 1/5; 394/1980] START leaf_size=23, n_neighbors=97...
[CV 5/5; 387/1980] END leaf_size=23, n_neighbors=90;; score=0.617 total time=
0.0s
[CV 1/5; 388/1980] START leaf_size=23, n_neighbors=91...
[CV 1/5; 397/1980] END leaf_size=24, n_neighbors=1;; score=0.516 total time=

```

0.0s  
 [CV 2/5; 397/1980] START leaf\_size=24, n\_neighbors=1...  
 [CV 3/5; 392/1980] END leaf\_size=23, n\_neighbors=95;; score=0.566 total time=  
 0.1s  
 [CV 4/5; 392/1980] START leaf\_size=23, n\_neighbors=95...  
 [CV 4/5; 389/1980] END leaf\_size=23, n\_neighbors=92;; score=0.582 total time=  
 0.0s  
 [CV 5/5; 389/1980] START leaf\_size=23, n\_neighbors=92...  
 [CV 3/5; 395/1980] END leaf\_size=23, n\_neighbors=98;; score=0.562 total time=  
 0.0s  
 [CV 4/5; 395/1980] START leaf\_size=23, n\_neighbors=98...  
 [CV 4/5; 398/1980] END leaf\_size=24, n\_neighbors=2;; score=0.571 total time=  
 0.0s  
 [CV 5/5; 398/1980] START leaf\_size=24, n\_neighbors=2...  
 [CV 2/5; 385/1980] END leaf\_size=23, n\_neighbors=88;; score=0.600 total time=  
 0.0s  
 [CV 2/5; 397/1980] END leaf\_size=24, n\_neighbors=1;; score=0.568 total time=  
 0.0s  
 [CV 3/5; 385/1980] START leaf\_size=23, n\_neighbors=88...  
 [CV 3/5; 397/1980] START leaf\_size=24, n\_neighbors=1...  
 [CV 5/5; 386/1980] END leaf\_size=23, n\_neighbors=89;; score=0.621 total time=  
 0.0s  
 [CV 1/5; 387/1980] START leaf\_size=23, n\_neighbors=90...  
 [CV 5/5; 398/1980] END leaf\_size=24, n\_neighbors=2;; score=0.574 total time=  
 0.0s  
 [CV 1/5; 399/1980] START leaf\_size=24, n\_neighbors=3...  
 [CV 1/5; 394/1980] END leaf\_size=23, n\_neighbors=97;; score=0.641 total time=  
 0.0s  
 [CV 2/5; 394/1980] START leaf\_size=23, n\_neighbors=97...  
 [CV 1/5; 391/1980] END leaf\_size=23, n\_neighbors=94;; score=0.644 total time=  
 0.1s  
 [CV 2/5; 391/1980] START leaf\_size=23, n\_neighbors=94...  
 [CV 5/5; 389/1980] END leaf\_size=23, n\_neighbors=92;; score=0.621 total time=  
 0.0s  
 [CV 1/5; 390/1980] START leaf\_size=23, n\_neighbors=93...  
 [CV 3/5; 397/1980] END leaf\_size=24, n\_neighbors=1;; score=0.490 total time=  
 0.0s  
 [CV 4/5; 397/1980] START leaf\_size=24, n\_neighbors=1...  
 [CV 4/5; 392/1980] END leaf\_size=23, n\_neighbors=95;; score=0.584 total time=  
 0.0s  
 [CV 5/5; 392/1980] START leaf\_size=23, n\_neighbors=95...  
 [CV 1/5; 388/1980] END leaf\_size=23, n\_neighbors=91;; score=0.648 total time=  
 0.1s  
 [CV 2/5; 388/1980] START leaf\_size=23, n\_neighbors=91...  
 [CV 4/5; 395/1980] END leaf\_size=23, n\_neighbors=98;; score=0.584 total time=  
 0.0s  
 [CV 5/5; 395/1980] START leaf\_size=23, n\_neighbors=98...  
 [CV 1/5; 399/1980] END leaf\_size=24, n\_neighbors=3;; score=0.557 total time=

0.0s  
 [CV 2/5; 399/1980] START leaf\_size=24, n\_neighbors=3...  
 [CV 3/5; 385/1980] END leaf\_size=23, n\_neighbors=88;; score=0.562 total time=  
 0.0s  
 [CV 4/5; 385/1980] START leaf\_size=23, n\_neighbors=88...  
 [CV 4/5; 397/1980] END leaf\_size=24, n\_neighbors=1;; score=0.539 total time=  
 0.0s  
 [CV 5/5; 397/1980] START leaf\_size=24, n\_neighbors=1...  
 [CV 1/5; 387/1980] END leaf\_size=23, n\_neighbors=90;; score=0.650 total time=  
 0.0s  
 [CV 2/5; 387/1980] START leaf\_size=23, n\_neighbors=90...  
 [CV 1/5; 390/1980] END leaf\_size=23, n\_neighbors=93;; score=0.646 total time=  
 0.0s  
 [CV 2/5; 390/1980] START leaf\_size=23, n\_neighbors=93...  
 [CV 2/5; 394/1980] END leaf\_size=23, n\_neighbors=97;; score=0.594 total time=  
 0.0s  
 [CV 3/5; 394/1980] START leaf\_size=23, n\_neighbors=97...  
 [CV 2/5; 399/1980] END leaf\_size=24, n\_neighbors=3;; score=0.579 total time=  
 0.0s  
 [CV 3/5; 399/1980] START leaf\_size=24, n\_neighbors=3...  
 [CV 5/5; 397/1980] END leaf\_size=24, n\_neighbors=1;; score=0.567 total time=  
 0.0s  
 [CV 1/5; 398/1980] START leaf\_size=24, n\_neighbors=2...  
 [CV 2/5; 391/1980] END leaf\_size=23, n\_neighbors=94;; score=0.600 total time=  
 0.0s  
 [CV 3/5; 391/1980] START leaf\_size=23, n\_neighbors=94...  
 [CV 4/5; 385/1980] END leaf\_size=23, n\_neighbors=88;; score=0.578 total time=  
 0.0s  
 [CV 5/5; 395/1980] END leaf\_size=23, n\_neighbors=98;; score=0.606 total time=  
 0.0s  
 [CV 1/5; 396/1980] START leaf\_size=23, n\_neighbors=99...  
 [CV 3/5; 399/1980] END leaf\_size=24, n\_neighbors=3;; score=0.484 total time=  
 0.0s  
 [CV 4/5; 399/1980] START leaf\_size=24, n\_neighbors=3...  
 [CV 5/5; 392/1980] END leaf\_size=23, n\_neighbors=95;; score=0.608 total time=  
 0.1s  
 [CV 1/5; 393/1980] START leaf\_size=23, n\_neighbors=96...  
 [CV 2/5; 400/1980] START leaf\_size=24, n\_neighbors=4...  
 [CV 2/5; 387/1980] END leaf\_size=23, n\_neighbors=90;; score=0.600 total time=  
 0.0s  
 [CV 2/5; 388/1980] END leaf\_size=23, n\_neighbors=91;; score=0.605 total time=  
 0.1s  
 [CV 3/5; 388/1980] START leaf\_size=23, n\_neighbors=91...  
 [CV 1/5; 398/1980] END leaf\_size=24, n\_neighbors=2;; score=0.566 total time=  
 0.0s  
 [CV 2/5; 398/1980] START leaf\_size=24, n\_neighbors=2...  
 [CV 5/5; 401/1980] START leaf\_size=24, n\_neighbors=5...  
 [CV 2/5; 390/1980] END leaf\_size=23, n\_neighbors=93;; score=0.603 total time=



```

0.0s
[CV 3/5; 390/1980] START leaf_size=23, n_neighbors=93...
[CV 3/5; 394/1980] END leaf_size=23, n_neighbors=97;;, score=0.564 total time=
0.0s
[CV 4/5; 394/1980] START leaf_size=23, n_neighbors=97...
[CV 4/5; 399/1980] END leaf_size=24, n_neighbors=3;;, score=0.584 total time=
0.0s
[CV 5/5; 399/1980] START leaf_size=24, n_neighbors=3...
[CV 2/5; 400/1980] END leaf_size=24, n_neighbors=4;;, score=0.581 total time=
0.0s
[CV 3/5; 400/1980] START leaf_size=24, n_neighbors=4...
[CV 2/5; 398/1980] END leaf_size=24, n_neighbors=2;;, score=0.579 total time=
0.0s
[CV 3/5; 398/1980] START leaf_size=24, n_neighbors=2...
[CV 5/5; 401/1980] END leaf_size=24, n_neighbors=5;;, score=0.591 total time=
0.0s
[CV 1/5; 402/1980] START leaf_size=24, n_neighbors=6...
[CV 3/5; 391/1980] END leaf_size=23, n_neighbors=94;;, score=0.562 total time=
0.0s
[CV 4/5; 391/1980] START leaf_size=23, n_neighbors=94...
[CV 1/5; 393/1980] END leaf_size=23, n_neighbors=96;;, score=0.637 total time=
0.0s
[CV 2/5; 393/1980] START leaf_size=23, n_neighbors=96...
[CV 1/5; 396/1980] END leaf_size=23, n_neighbors=99;;, score=0.641 total time=
0.0s
[CV 2/5; 396/1980] START leaf_size=23, n_neighbors=99...
[CV 5/5; 399/1980] END leaf_size=24, n_neighbors=3;;, score=0.593 total time=
0.0s
[CV 1/5; 400/1980] START leaf_size=24, n_neighbors=4...
[CV 3/5; 390/1980] END leaf_size=23, n_neighbors=93;;, score=0.564 total time=
0.0s
[CV 3/5; 403/1980] START leaf_size=24, n_neighbors=7...
[CV 3/5; 388/1980] END leaf_size=23, n_neighbors=91;;, score=0.564 total time=
0.0s
[CV 4/5; 388/1980] START leaf_size=23, n_neighbors=91...
[CV 1/5; 402/1980] END leaf_size=24, n_neighbors=6;;, score=0.570 total time=
0.0s[CV 3/5; 398/1980] END leaf_size=24, n_neighbors=2;;, score=0.512 total time=
0.0s[CV 4/5; 394/1980] END leaf_size=23, n_neighbors=97;;, score=0.580 total
time= 0.0s

[CV 5/5; 394/1980] START leaf_size=23, n_neighbors=97...
[CV 2/5; 402/1980] START leaf_size=24, n_neighbors=6...
[CV 3/5; 400/1980] END leaf_size=24, n_neighbors=4;;, score=0.544 total time=
0.0s
[CV 4/5; 400/1980] START leaf_size=24, n_neighbors=4...
[CV 1/5; 405/1980] START leaf_size=24, n_neighbors=9...
[CV 1/5; 400/1980] END leaf_size=24, n_neighbors=4;;, score=0.562 total time=

```

0.0s  
 [CV 4/5; 406/1980] START leaf\_size=24, n\_neighbors=10...  
 [CV 3/5; 403/1980] END leaf\_size=24, n\_neighbors=7;; score=0.551 total time=  
 0.0s  
 [CV 4/5; 403/1980] START leaf\_size=24, n\_neighbors=7...  
 [CV 2/5; 402/1980] END leaf\_size=24, n\_neighbors=6;; score=0.546 total time=  
 0.0s  
 [CV 3/5; 402/1980] START leaf\_size=24, n\_neighbors=6...  
 [CV 4/5; 400/1980] END leaf\_size=24, n\_neighbors=4;; score=0.580 total time=  
 0.0s  
 [CV 5/5; 400/1980] START leaf\_size=24, n\_neighbors=4...  
 [CV 2/5; 393/1980] END leaf\_size=23, n\_neighbors=96;; score=0.598 total time=  
 0.0s  
 [CV 3/5; 393/1980] START leaf\_size=23, n\_neighbors=96...  
 [CV 2/5; 396/1980] END leaf\_size=23, n\_neighbors=99;; score=0.598 total time=  
 0.0s  
 [CV 3/5; 396/1980] START leaf\_size=23, n\_neighbors=99...  
 [CV 1/5; 405/1980] END leaf\_size=24, n\_neighbors=9;; score=0.592 total time=  
 0.0s  
 [CV 2/5; 405/1980] START leaf\_size=24, n\_neighbors=9...  
 [CV 4/5; 391/1980] END leaf\_size=23, n\_neighbors=94;; score=0.582 total time=  
 0.0s  
 [CV 5/5; 391/1980] START leaf\_size=23, n\_neighbors=94...  
 [CV 4/5; 403/1980] END leaf\_size=24, n\_neighbors=7;; score=0.584 total time=  
 0.0s  
 [CV 5/5; 403/1980] START leaf\_size=24, n\_neighbors=7...  
 [CV 5/5; 394/1980] END leaf\_size=23, n\_neighbors=97;; score=0.602 total time=  
 0.0s  
 [CV 1/5; 395/1980] START leaf\_size=23, n\_neighbors=98...  
 [CV 4/5; 406/1980] END leaf\_size=24, n\_neighbors=10;; score=0.597 total time=  
 0.0s  
 [CV 5/5; 406/1980] START leaf\_size=24, n\_neighbors=10...  
 [CV 4/5; 388/1980] END leaf\_size=23, n\_neighbors=91;; score=0.591 total time=  
 0.0s  
 [CV 5/5; 388/1980] START leaf\_size=23, n\_neighbors=91...  
 [CV 3/5; 402/1980] END leaf\_size=24, n\_neighbors=6;; score=0.555 total time=  
 0.0s  
 [CV 4/5; 402/1980] START leaf\_size=24, n\_neighbors=6...  
 [CV 5/5; 400/1980] END leaf\_size=24, n\_neighbors=4;; score=0.593 total time=  
 0.0s  
 [CV 1/5; 401/1980] START leaf\_size=24, n\_neighbors=5...  
 [CV 2/5; 405/1980] END leaf\_size=24, n\_neighbors=9;; score=0.570 total time=  
 0.0s  
 [CV 3/5; 405/1980] START leaf\_size=24, n\_neighbors=9...  
 [CV 5/5; 403/1980] END leaf\_size=24, n\_neighbors=7;; score=0.613 total time=  
 0.0s  
 [CV 1/5; 404/1980] START leaf\_size=24, n\_neighbors=8...  
 [CV 5/5; 406/1980] END leaf\_size=24, n\_neighbors=10;; score=0.615 total time=

0.0s  
[CV 1/5; 407/1980] START leaf\_size=24, n\_neighbors=11...  
[CV 3/5; 396/1980] END leaf\_size=23, n\_neighbors=99;; score=0.566 total time=  
0.0s[CV 4/5; 402/1980] END leaf\_size=24, n\_neighbors=6;; score=0.578 total time=  
0.0s  
  
[CV 4/5; 396/1980] START leaf\_size=23, n\_neighbors=99...  
[CV 5/5; 402/1980] START leaf\_size=24, n\_neighbors=6...  
[CV 3/5; 393/1980] END leaf\_size=23, n\_neighbors=96;; score=0.564 total time=  
0.0s  
[CV 4/5; 393/1980] START leaf\_size=23, n\_neighbors=96...  
[CV 1/5; 401/1980] END leaf\_size=24, n\_neighbors=5;; score=0.546 total time=  
0.0s  
[CV 2/5; 401/1980] START leaf\_size=24, n\_neighbors=5...  
[CV 1/5; 395/1980] END leaf\_size=23, n\_neighbors=98;; score=0.635 total time=  
0.0s  
[CV 3/5; 405/1980] END leaf\_size=24, n\_neighbors=9;; score=0.559 total time=  
0.0s[CV 2/5; 395/1980] START leaf\_size=23,  
n\_neighbors=98...  
  
[CV 4/5; 405/1980] START leaf\_size=24, n\_neighbors=9...  
[CV 5/5; 391/1980] END leaf\_size=23, n\_neighbors=94;; score=0.608 total time=  
0.0s  
[CV 1/5; 392/1980] START leaf\_size=23, n\_neighbors=95...  
[CV 1/5; 404/1980] END leaf\_size=24, n\_neighbors=8;; score=0.568 total time=  
0.0s  
[CV 2/5; 404/1980] START leaf\_size=24, n\_neighbors=8...  
[CV 5/5; 388/1980] END leaf\_size=23, n\_neighbors=91;; score=0.623 total time=  
0.0s  
[CV 2/5; 408/1980] START leaf\_size=24, n\_neighbors=12...  
[CV 1/5; 407/1980] END leaf\_size=24, n\_neighbors=11;; score=0.624 total time=  
0.0s  
[CV 2/5; 407/1980] START leaf\_size=24, n\_neighbors=11...  
[CV 5/5; 402/1980] END leaf\_size=24, n\_neighbors=6;; score=0.582 total time=  
0.0s  
[CV 1/5; 403/1980] START leaf\_size=24, n\_neighbors=7...  
[CV 2/5; 401/1980] END leaf\_size=24, n\_neighbors=5;; score=0.562 total time=  
0.0s  
[CV 3/5; 401/1980] START leaf\_size=24, n\_neighbors=5...  
[CV 2/5; 404/1980] END leaf\_size=24, n\_neighbors=8;; score=0.551 total time=  
0.0s  
[CV 3/5; 404/1980] START leaf\_size=24, n\_neighbors=8...  
[CV 4/5; 405/1980] END leaf\_size=24, n\_neighbors=9;; score=0.589 total time=  
0.0s  
[CV 5/5; 405/1980] START leaf\_size=24, n\_neighbors=9...  
[CV 4/5; 396/1980] END leaf\_size=23, n\_neighbors=99;; score=0.589 total time=  
0.0s  
[CV 5/5; 396/1980] START leaf\_size=23, n\_neighbors=99...

[CV 4/5; 393/1980] END leaf\_size=23, n\_neighbors=96;; score=0.582 total time=0.0s  
 [CV 1/5; 403/1980] END leaf\_size=24, n\_neighbors=7;; score=0.568 total time=0.0s  
 [CV 2/5; 403/1980] START leaf\_size=24, n\_neighbors=7...  
 [CV 5/5; 409/1980] START leaf\_size=24, n\_neighbors=13...  
 [CV 3/5; 401/1980] END leaf\_size=24, n\_neighbors=5;; score=0.536 total time=0.0s  
 [CV 4/5; 401/1980] START leaf\_size=24, n\_neighbors=5...  
 [CV 2/5; 408/1980] END leaf\_size=24, n\_neighbors=12;; score=0.581 total time=0.0s  
 [CV 2/5; 407/1980] END leaf\_size=24, n\_neighbors=11;; score=0.579 total time= 0.0s  
 [CV 3/5; 407/1980] START leaf\_size=24, n\_neighbors=11...  
 [CV 2/5; 395/1980] END leaf\_size=23, n\_neighbors=98;; score=0.596 total time=0.0s  
 [CV 3/5; 411/1980] START leaf\_size=24, n\_neighbors=15...  
  
 [CV 3/5; 408/1980] START leaf\_size=24, n\_neighbors=12...  
 [CV 3/5; 404/1980] END leaf\_size=24, n\_neighbors=8;; score=0.551 total time=0.0s  
 [CV 4/5; 404/1980] START leaf\_size=24, n\_neighbors=8...  
 [CV 1/5; 392/1980] END leaf\_size=23, n\_neighbors=95;; score=0.644 total time=0.0s  
 [CV 5/5; 405/1980] END leaf\_size=24, n\_neighbors=9;; score=0.613 total time=0.0s  
 [CV 1/5; 406/1980] START leaf\_size=24, n\_neighbors=10...  
 [CV 2/5; 403/1980] END leaf\_size=24, n\_neighbors=7;; score=0.559 total time=0.0s  
 [CV 4/5; 401/1980] END leaf\_size=24, n\_neighbors=5;; score=0.589 total time=0.0s  
 [CV 1/5; 413/1980] START leaf\_size=24, n\_neighbors=17...  
 [CV 4/5; 414/1980] START leaf\_size=24, n\_neighbors=18...  
 [CV 3/5; 407/1980] END leaf\_size=24, n\_neighbors=11;; score=0.551 total time=0.0s  
 [CV 4/5; 407/1980] START leaf\_size=24, n\_neighbors=11...  
 [CV 2/5; 416/1980] START leaf\_size=24, n\_neighbors=20...  
 [CV 5/5; 409/1980] END leaf\_size=24, n\_neighbors=13;; score=0.591 total time=0.0s  
 [CV 1/5; 410/1980] START leaf\_size=24, n\_neighbors=14...  
 [CV 4/5; 404/1980] END leaf\_size=24, n\_neighbors=8;; score=0.617 total time=0.0s  
 [CV 5/5; 396/1980] END leaf\_size=23, n\_neighbors=99;; score=0.610 total time= 0.0s  
  
 [CV 5/5; 404/1980] START leaf\_size=24, n\_neighbors=8...  
 [CV 5/5; 417/1980] START leaf\_size=24, n\_neighbors=21...  
 [CV 3/5; 411/1980] END leaf\_size=24, n\_neighbors=15;; score=0.557 total time=0.0s  
 [CV 4/5; 411/1980] START leaf\_size=24, n\_neighbors=15...

[CV 1/5; 406/1980] END leaf\_size=24, n\_neighbors=10;; score=0.611 total time=0.0s  
 [CV 2/5; 406/1980] START leaf\_size=24, n\_neighbors=10..  
 [CV 1/5; 413/1980] END leaf\_size=24, n\_neighbors=17;; score=0.631 total time=0.0s  
 [CV 2/5; 413/1980] START leaf\_size=24, n\_neighbors=17..  
 [CV 3/5; 408/1980] END leaf\_size=24, n\_neighbors=12;; score=0.546 total time=0.0s  
 [CV 5/5; 404/1980] END leaf\_size=24, n\_neighbors=8;; score=0.608 total time=0.0s  
 [CV 4/5; 408/1980] START leaf\_size=24, n\_neighbors=12..  
  
 [CV 4/5; 414/1980] END leaf\_size=24, n\_neighbors=18;; score=0.600 total time=0.0s  
 [CV 5/5; 414/1980] START leaf\_size=24, n\_neighbors=18..  
 [CV 3/5; 419/1980] START leaf\_size=24, n\_neighbors=23..  
 [CV 4/5; 407/1980] END leaf\_size=24, n\_neighbors=11;; score=0.589 total time=0.0s  
 [CV 5/5; 407/1980] START leaf\_size=24, n\_neighbors=11..  
 [CV 4/5; 411/1980] END leaf\_size=24, n\_neighbors=15;; score=0.584 total time=0.0s  
 [CV 5/5; 411/1980] START leaf\_size=24, n\_neighbors=15..  
 [CV 2/5; 416/1980] END leaf\_size=24, n\_neighbors=20;; score=0.583 total time=0.0s  
 [CV 3/5; 416/1980] START leaf\_size=24, n\_neighbors=20..  
 [CV 1/5; 410/1980] END leaf\_size=24, n\_neighbors=14;; score=0.644 total time=0.0s  
 [CV 2/5; 410/1980] START leaf\_size=24, n\_neighbors=14..  
 [CV 2/5; 406/1980] END leaf\_size=24, n\_neighbors=10;; score=0.568 total time=0.0s  
 [CV 3/5; 406/1980] START leaf\_size=24, n\_neighbors=10..  
 [CV 5/5; 417/1980] END leaf\_size=24, n\_neighbors=21;; score=0.621 total time=0.0s  
 [CV 1/5; 418/1980] START leaf\_size=24, n\_neighbors=22..  
 [CV 2/5; 413/1980] END leaf\_size=24, n\_neighbors=17;; score=0.568 total time=0.0s  
 [CV 3/5; 413/1980] START leaf\_size=24, n\_neighbors=17..  
 [CV 5/5; 414/1980] END leaf\_size=24, n\_neighbors=18;; score=0.617 total time=0.0s  
 [CV 1/5; 415/1980] START leaf\_size=24, n\_neighbors=19..  
 [CV 3/5; 419/1980] END leaf\_size=24, n\_neighbors=23;; score=0.557 total time=0.0s  
 [CV 4/5; 419/1980] START leaf\_size=24, n\_neighbors=23..  
 [CV 5/5; 407/1980] END leaf\_size=24, n\_neighbors=11;; score=0.606 total time=0.0s  
 [CV 1/5; 408/1980] START leaf\_size=24, n\_neighbors=12..  
 [CV 5/5; 411/1980] END leaf\_size=24, n\_neighbors=15;; score=0.615 total time=0.0s

[CV 1/5; 412/1980] START leaf\_size=24, n\_neighbors=16...  
 [CV 4/5; 408/1980] END leaf\_size=24, n\_neighbors=12;; score=0.576 total time=0.0s  
 [CV 3/5; 406/1980] END leaf\_size=24, n\_neighbors=10;; score=0.549 total time= 0.0s

[CV 5/5; 408/1980] START leaf\_size=24, n\_neighbors=12...  
 [CV 2/5; 410/1980] END leaf\_size=24, n\_neighbors=14;; score=0.572 total time=0.0s  
 [CV 3/5; 410/1980] START leaf\_size=24, n\_neighbors=14...  
 [CV 1/5; 421/1980] START leaf\_size=24, n\_neighbors=25...  
 [CV 1/5; 418/1980] END leaf\_size=24, n\_neighbors=22;; score=0.622 total time=0.0s  
 [CV 2/5; 418/1980] START leaf\_size=24, n\_neighbors=22...  
 [CV 3/5; 416/1980] END leaf\_size=24, n\_neighbors=20;; score=0.553 total time=0.0s  
 [CV 4/5; 416/1980] START leaf\_size=24, n\_neighbors=20...  
 [CV 3/5; 413/1980] END leaf\_size=24, n\_neighbors=17;; score=0.564 total time=0.0s  
 [CV 4/5; 413/1980] START leaf\_size=24, n\_neighbors=17...  
 [CV 4/5; 419/1980] END leaf\_size=24, n\_neighbors=23;; score=0.600 total time=0.0s  
 [CV 5/5; 419/1980] START leaf\_size=24, n\_neighbors=23...  
 [CV 1/5; 415/1980] END leaf\_size=24, n\_neighbors=19;; score=0.637 total time= 0.0s

[CV 2/5; 415/1980] START leaf\_size=24, n\_neighbors=19...  
 [CV 1/5; 408/1980] END leaf\_size=24, n\_neighbors=12;; score=0.648 total time=0.0s  
 [CV 4/5; 422/1980] START leaf\_size=24, n\_neighbors=26...  
 [CV 1/5; 412/1980] END leaf\_size=24, n\_neighbors=16;; score=0.637 total time=0.0s  
 [CV 2/5; 412/1980] START leaf\_size=24, n\_neighbors=16...  
 [CV 5/5; 408/1980] END leaf\_size=24, n\_neighbors=12;; score=0.613 total time=0.0s  
 [CV 1/5; 409/1980] START leaf\_size=24, n\_neighbors=13...  
 [CV 2/5; 418/1980] END leaf\_size=24, n\_neighbors=22;; score=0.587 total time=0.0s  
 [CV 3/5; 418/1980] START leaf\_size=24, n\_neighbors=22...  
 [CV 4/5; 413/1980] END leaf\_size=24, n\_neighbors=17;; score=0.580 total time=0.0s  
 [CV 5/5; 413/1980] START leaf\_size=24, n\_neighbors=17...  
 [CV 5/5; 419/1980] END leaf\_size=24, n\_neighbors=23;; score=0.643 total time=0.0s  
 [CV 1/5; 420/1980] START leaf\_size=24, n\_neighbors=24...  
 [CV 1/5; 421/1980] END leaf\_size=24, n\_neighbors=25;; score=0.646 total time=0.0s  
 [CV 2/5; 421/1980] START leaf\_size=24, n\_neighbors=25...  
 [CV 3/5; 410/1980] END leaf\_size=24, n\_neighbors=14;; score=0.544 total time=

```

0.0s
[CV 4/5; 410/1980] START leaf_size=24, n_neighbors=14...
[CV 4/5; 416/1980] END leaf_size=24, n_neighbors=20;;, score=0.600 total time=
0.0s
[CV 5/5; 416/1980] START leaf_size=24, n_neighbors=20...
[CV 2/5; 415/1980] END leaf_size=24, n_neighbors=19;;, score=0.583 total time=
0.0s
[CV 3/5; 415/1980] START leaf_size=24, n_neighbors=19...
[CV 4/5; 422/1980] END leaf_size=24, n_neighbors=26;;, score=0.593 total time=
0.0s
[CV 5/5; 422/1980] START leaf_size=24, n_neighbors=26...
[CV 2/5; 412/1980] END leaf_size=24, n_neighbors=16;;, score=0.575 total time=
0.0s
[CV 3/5; 412/1980] START leaf_size=24, n_neighbors=16...
[CV 5/5; 413/1980] END leaf_size=24, n_neighbors=17;;, score=0.610 total time=
0.0s
[CV 1/5; 414/1980] START leaf_size=24,
n_neighbors=18...[CV 1/5; 409/1980] END leaf_size=24,
n_neighbors=13;;, score=0.633 total time= 0.0s

[CV 2/5; 409/1980] START leaf_size=24, n_neighbors=13...
[CV 1/5; 420/1980] END leaf_size=24, n_neighbors=24;;, score=0.646 total time=
0.0s
[CV 2/5; 420/1980] START leaf_size=24, n_neighbors=24...
[CV 3/5; 418/1980] END leaf_size=24, n_neighbors=22;;, score=0.555 total time=
0.0s
[CV 4/5; 418/1980] START leaf_size=24, n_neighbors=22...
[CV 4/5; 410/1980] END leaf_size=24, n_neighbors=14;;, score=0.584 total time=
0.0s
[CV 5/5; 410/1980] START leaf_size=24, n_neighbors=14...
[CV 3/5; 415/1980] END leaf_size=24, n_neighbors=19;;, score=0.551 total time=
0.0s
[CV 4/5; 415/1980] START leaf_size=24, n_neighbors=19...
[CV 2/5; 421/1980] END leaf_size=24, n_neighbors=25;;, score=0.598 total time=
0.0s
[CV 3/5; 421/1980] START leaf_size=24, n_neighbors=25...
[CV 5/5; 416/1980] END leaf_size=24, n_neighbors=20;;, score=0.632 total time=
0.0s
[CV 1/5; 417/1980] START leaf_size=24, n_neighbors=21...
[CV 5/5; 422/1980] END leaf_size=24, n_neighbors=26;;, score=0.628 total time=
0.0s
[CV 1/5; 423/1980] START leaf_size=24,
n_neighbors=27...[CV 3/5; 412/1980] END leaf_size=24,
n_neighbors=16;;, score=0.557 total time= 0.0s

[CV 4/5; 412/1980] START leaf_size=24, n_neighbors=16...
[CV 1/5; 414/1980] END leaf_size=24, n_neighbors=18;;, score=0.635 total time=
0.0s

```

[CV 2/5; 414/1980] START leaf\_size=24, n\_neighbors=18...  
 [CV 2/5; 420/1980] END leaf\_size=24, n\_neighbors=24;; score=0.596 total time=0.0s  
 [CV 3/5; 420/1980] START leaf\_size=24, n\_neighbors=24...  
 [CV 2/5; 409/1980] END leaf\_size=24, n\_neighbors=13;; score=0.570 total time=0.0s  
 [CV 3/5; 409/1980] START leaf\_size=24, n\_neighbors=13...  
 [CV 5/5; 410/1980] END leaf\_size=24, n\_neighbors=14;; score=0.606 total time=0.0s  
 [CV 1/5; 411/1980] START leaf\_size=24, n\_neighbors=15...  
 [CV 4/5; 418/1980] END leaf\_size=24, n\_neighbors=22;; score=0.600 total time=0.0s  
 [CV 5/5; 418/1980] START leaf\_size=24, n\_neighbors=22...  
 [CV 4/5; 415/1980] END leaf\_size=24, n\_neighbors=19;; score=0.589 total time=0.0s  
 [CV 5/5; 415/1980] START leaf\_size=24, n\_neighbors=19...  
 [CV 3/5; 421/1980] END leaf\_size=24, n\_neighbors=25;; score=0.557 total time=0.0s  
 [CV 4/5; 421/1980] START leaf\_size=24, n\_neighbors=25...  
 [CV 4/5; 412/1980] END leaf\_size=24, n\_neighbors=16;; score=0.584 total time=0.0s  
 [CV 5/5; 412/1980] START leaf\_size=24, n\_neighbors=16...  
 [CV 1/5; 417/1980] END leaf\_size=24, n\_neighbors=21;; score=0.626 total time=0.0s  
 [CV 2/5; 417/1980] START leaf\_size=24, n\_neighbors=21...  
 [CV 3/5; 420/1980] END leaf\_size=24, n\_neighbors=24;; score=0.564 total time=0.0s  
 [CV 1/5; 423/1980] END leaf\_size=24, n\_neighbors=27;; score=0.650 total time=0.0s  
  
 [CV 4/5; 420/1980] START leaf\_size=24, n\_neighbors=24...  
 [CV 2/5; 423/1980] START leaf\_size=24, n\_neighbors=27...  
 [CV 2/5; 414/1980] END leaf\_size=24, n\_neighbors=18;; score=0.590 total time=0.0s  
 [CV 3/5; 414/1980] START leaf\_size=24, n\_neighbors=18...  
 [CV 3/5; 409/1980] END leaf\_size=24, n\_neighbors=13;; score=0.553 total time=0.0s  
 [CV 4/5; 409/1980] START leaf\_size=24, n\_neighbors=13...  
 [CV 5/5; 418/1980] END leaf\_size=24, n\_neighbors=22;; score=0.628 total time=0.0s  
 [CV 1/5; 419/1980] START leaf\_size=24, n\_neighbors=23...  
 [CV 5/5; 415/1980] END leaf\_size=24, n\_neighbors=19;; score=0.626 total time=0.0s  
 [CV 1/5; 416/1980] START leaf\_size=24, n\_neighbors=20...  
 [CV 5/5; 412/1980] END leaf\_size=24, n\_neighbors=16;; score=0.621 total time=0.0s  
 [CV 4/5; 420/1980] END leaf\_size=24, n\_neighbors=24;; score=0.597 total time=0.0s  
 [CV 5/5; 420/1980] START leaf\_size=24, n\_neighbors=24...



[CV 3/5; 414/1980] END leaf\_size=24, n\_neighbors=18;; score=0.555 total time=0.0s  
 [CV 2/5; 423/1980] END leaf\_size=24, n\_neighbors=27;; score=0.594 total time=0.0s  
 [CV 3/5; 423/1980] START leaf\_size=24, n\_neighbors=27...  
 [CV 2/5; 417/1980] END leaf\_size=24, n\_neighbors=21;; score=0.581 total time=0.0s  
 [CV 3/5; 417/1980] START leaf\_size=24, n\_neighbors=21...  
 [CV 1/5; 416/1980] END leaf\_size=24, n\_neighbors=20;; score=0.618 total time=0.0s  
 [CV 4/5; 409/1980] END leaf\_size=24, n\_neighbors=13;; score=0.574 total time=0.0s  
 [CV 4/5; 421/1980] END leaf\_size=24, n\_neighbors=25;; score=0.587 total time= 0.0s  
  
 [CV 5/5; 421/1980] START leaf\_size=24, n\_neighbors=25...  
 [CV 5/5; 420/1980] END leaf\_size=24, n\_neighbors=24;; score=0.647 total time=0.0s  
 [CV 1/5; 419/1980] END leaf\_size=24, n\_neighbors=23;; score=0.646 total time=0.0s  
 [CV 2/5; 419/1980] START leaf\_size=24, n\_neighbors=23...  
 [CV 2/5; 424/1980] START leaf\_size=24, n\_neighbors=28...  
 [CV 5/5; 425/1980] START leaf\_size=24, n\_neighbors=29...  
 [CV 3/5; 423/1980] END leaf\_size=24, n\_neighbors=27;; score=0.568 total time=0.0s  
 [CV 4/5; 423/1980] START leaf\_size=24, n\_neighbors=27...  
 [CV 3/5; 427/1980] START leaf\_size=24, n\_neighbors=31...  
 [CV 1/5; 411/1980] END leaf\_size=24, n\_neighbors=15;; score=0.637 total time=0.1s  
 [CV 2/5; 411/1980] START leaf\_size=24, n\_neighbors=15...  
 [CV 4/5; 430/1980] START leaf\_size=24, n\_neighbors=34...  
 [CV 1/5; 429/1980] START leaf\_size=24, n\_neighbors=33...  
 [CV 2/5; 419/1980] END leaf\_size=24, n\_neighbors=23;; score=0.583 total time=0.0s  
 [CV 2/5; 432/1980] START leaf\_size=24, n\_neighbors=36...  
 [CV 4/5; 423/1980] END leaf\_size=24, n\_neighbors=27;; score=0.593 total time=0.0s  
 [CV 5/5; 423/1980] START leaf\_size=24, n\_neighbors=27...  
 [CV 3/5; 417/1980] END leaf\_size=24, n\_neighbors=21;; score=0.559 total time=0.0s  
 [CV 5/5; 425/1980] END leaf\_size=24, n\_neighbors=29;; score=0.639 total time= 0.0s  
 [CV 1/5; 426/1980] START leaf\_size=24, n\_neighbors=30...  
 [CV 5/5; 421/1980] END leaf\_size=24, n\_neighbors=25;; score=0.647 total time=0.0s  
 [CV 1/5; 422/1980] START leaf\_size=24, n\_neighbors=26...  
  
 [CV 4/5; 417/1980] START leaf\_size=24, n\_neighbors=21...  
 [CV 2/5; 424/1980] END leaf\_size=24, n\_neighbors=28;; score=0.598 total time=0.0s

[CV 3/5; 424/1980] START leaf\_size=24, n\_neighbors=28...  
 [CV 3/5; 427/1980] END leaf\_size=24, n\_neighbors=31;; score=0.570 total time=0.0s  
 [CV 4/5; 427/1980] START leaf\_size=24, n\_neighbors=31...  
 [CV 4/5; 430/1980] END leaf\_size=24, n\_neighbors=34;; score=0.597 total time=0.0s  
 [CV 5/5; 430/1980] START leaf\_size=24, n\_neighbors=34...  
 [CV 5/5; 423/1980] END leaf\_size=24, n\_neighbors=27;; score=0.630 total time=0.0s  
 [CV 1/5; 424/1980] START leaf\_size=24, n\_neighbors=28...  
 [CV 2/5; 432/1980] END leaf\_size=24, n\_neighbors=36;; score=0.616 total time=0.0s  
 [CV 3/5; 432/1980] START leaf\_size=24, n\_neighbors=36...  
 [CV 2/5; 411/1980] END leaf\_size=24, n\_neighbors=15;; score=0.570 total time=0.0s  
 [CV 5/5; 433/1980] START leaf\_size=24, n\_neighbors=37...  
 [CV 1/5; 422/1980] END leaf\_size=24, n\_neighbors=26;; score=0.639 total time=0.0s  
 [CV 2/5; 422/1980] START leaf\_size=24, n\_neighbors=26...  
 [CV 1/5; 426/1980] END leaf\_size=24, n\_neighbors=30;; score=0.639 total time=0.0s  
 [CV 2/5; 426/1980] START leaf\_size=24, n\_neighbors=30...  
 [CV 1/5; 429/1980] END leaf\_size=24, n\_neighbors=33;; score=0.646 total time=0.0s  
 [CV 2/5; 429/1980] START leaf\_size=24, n\_neighbors=33...  
 [CV 5/5; 430/1980] END leaf\_size=24, n\_neighbors=34;; score=0.634 total time=0.0s  
 [CV 1/5; 431/1980] START leaf\_size=24, n\_neighbors=35...  
 [CV 1/5; 424/1980] END leaf\_size=24, n\_neighbors=28;; score=0.650 total time=0.0s  
 [CV 3/5; 435/1980] START leaf\_size=24, n\_neighbors=39...  
 [CV 4/5; 427/1980] END leaf\_size=24, n\_neighbors=31;; score=0.595 total time=0.0s  
 [CV 5/5; 427/1980] START leaf\_size=24, n\_neighbors=31...  
 [CV 4/5; 417/1980] END leaf\_size=24, n\_neighbors=21;; score=0.606 total time=0.0s  
 [CV 1/5; 437/1980] START leaf\_size=24, n\_neighbors=41...  
 [CV 2/5; 422/1980] END leaf\_size=24, n\_neighbors=26;; score=0.600 total time=0.0s  
 [CV 3/5; 422/1980] START leaf\_size=24, n\_neighbors=26...  
 [CV 3/5; 432/1980] END leaf\_size=24, n\_neighbors=36;; score=0.566 total time=0.0s  
 [CV 4/5; 432/1980] START leaf\_size=24, n\_neighbors=36...  
 [CV 2/5; 426/1980] END leaf\_size=24, n\_neighbors=30;; score=0.607 total time=0.0s  
 [CV 3/5; 426/1980] START leaf\_size=24, n\_neighbors=30...  
 [CV 3/5; 424/1980] END leaf\_size=24, n\_neighbors=28;; score=0.568 total time=0.1s

[CV 4/5; 424/1980] START leaf\_size=24, n\_neighbors=28...  
 [CV 1/5; 431/1980] END leaf\_size=24, n\_neighbors=35;; score=0.650 total time=0.0s  
 [CV 2/5; 431/1980] START leaf\_size=24, n\_neighbors=35...  
 [CV 2/5; 429/1980] END leaf\_size=24, n\_neighbors=33;; score=0.607 total time=0.0s  
 [CV 3/5; 429/1980] START leaf\_size=24, n\_neighbors=33...  
 [CV 5/5; 433/1980] END leaf\_size=24, n\_neighbors=37;; score=0.628 total time=0.0s  
 [CV 1/5; 434/1980] START leaf\_size=24, n\_neighbors=38...  
 [CV 3/5; 435/1980] END leaf\_size=24, n\_neighbors=39;; score=0.575 total time=0.0s  
 [CV 4/5; 435/1980] START leaf\_size=24, n\_neighbors=39...  
 [CV 5/5; 427/1980] END leaf\_size=24, n\_neighbors=31;; score=0.634 total time=0.0s  
 [CV 1/5; 428/1980] START leaf\_size=24, n\_neighbors=32...  
 [CV 3/5; 422/1980] END leaf\_size=24, n\_neighbors=26;; score=0.564 total time=0.0s  
 [CV 4/5; 432/1980] END leaf\_size=24, n\_neighbors=36;; score=0.600 total time=0.0s  
 [CV 5/5; 432/1980] START leaf\_size=24, n\_neighbors=36...  
 [CV 4/5; 438/1980] START leaf\_size=24, n\_neighbors=42...  
 [CV 3/5; 426/1980] END leaf\_size=24, n\_neighbors=30;; score=0.579 total time=0.0s  
 [CV 4/5; 426/1980] START leaf\_size=24, n\_neighbors=30...  
 [CV 1/5; 437/1980] END leaf\_size=24, n\_neighbors=41;; score=0.665 total time=0.0s  
 [CV 2/5; 437/1980] START leaf\_size=24, n\_neighbors=41...  
 [CV 4/5; 424/1980] END leaf\_size=24, n\_neighbors=28;; score=0.597 total time=0.0s  
 [CV 5/5; 424/1980] START leaf\_size=24, n\_neighbors=28...  
 [CV 2/5; 431/1980] END leaf\_size=24, n\_neighbors=35;; score=0.607 total time=0.0s  
 [CV 3/5; 431/1980] START leaf\_size=24, n\_neighbors=35...  
 [CV 1/5; 434/1980] END leaf\_size=24, n\_neighbors=38;; score=0.652 total time=0.0s  
 [CV 2/5; 434/1980] START leaf\_size=24, n\_neighbors=38...  
 [CV 1/5; 428/1980] END leaf\_size=24, n\_neighbors=32;; score=0.639 total time=0.0s  
 [CV 2/5; 428/1980] START leaf\_size=24, n\_neighbors=32...  
 [CV 4/5; 435/1980] END leaf\_size=24, n\_neighbors=39;; score=0.602 total time=0.0s  
 [CV 5/5; 435/1980] START leaf\_size=24, n\_neighbors=39...  
 [CV 3/5; 429/1980] END leaf\_size=24, n\_neighbors=33;; score=0.570 total time=0.0s  
 [CV 4/5; 429/1980] START leaf\_size=24, n\_neighbors=33...  
 [CV 4/5; 426/1980] END leaf\_size=24, n\_neighbors=30;; score=0.595 total time=0.0s

[CV 5/5; 426/1980] START leaf\_size=24, n\_neighbors=30...  
 [CV 4/5; 438/1980] END leaf\_size=24, n\_neighbors=42;; score=0.608 total time=0.0s  
 [CV 5/5; 438/1980] START leaf\_size=24, n\_neighbors=42...  
 [CV 5/5; 432/1980] END leaf\_size=24, n\_neighbors=36;; score=0.628 total time=0.0s  
 [CV 1/5; 433/1980] START leaf\_size=24, n\_neighbors=37...  
 [CV 5/5; 424/1980] END leaf\_size=24, n\_neighbors=28;; score=0.641 total time=0.0s  
 [CV 1/5; 425/1980] START leaf\_size=24, n\_neighbors=29...  
 [CV 2/5; 437/1980] END leaf\_size=24, n\_neighbors=41;; score=0.618 total time=0.0s  
 [CV 3/5; 437/1980] START leaf\_size=24, n\_neighbors=41...  
 [CV 3/5; 431/1980] END leaf\_size=24, n\_neighbors=35;; score=0.572 total time=0.0s  
 [CV 4/5; 431/1980] START leaf\_size=24, n\_neighbors=35...  
 [CV 2/5; 434/1980] END leaf\_size=24, n\_neighbors=38;; score=0.613 total time=0.0s  
 [CV 3/5; 434/1980] START leaf\_size=24, n\_neighbors=38...  
 [CV 2/5; 428/1980] END leaf\_size=24, n\_neighbors=32;; score=0.605 total time=0.0s  
 [CV 3/5; 428/1980] START leaf\_size=24, n\_neighbors=32...  
 [CV 5/5; 435/1980] END leaf\_size=24, n\_neighbors=39;; score=0.636 total time=0.0s  
 [CV 1/5; 436/1980] START leaf\_size=24, n\_neighbors=40...  
 [CV 5/5; 426/1980] END leaf\_size=24, n\_neighbors=30;; score=0.632 total time=0.0s  
 [CV 1/5; 427/1980] START leaf\_size=24, n\_neighbors=31...  
 [CV 5/5; 438/1980] END leaf\_size=24, n\_neighbors=42;; score=0.621 total time=0.0s  
 [CV 1/5; 439/1980] START leaf\_size=24, n\_neighbors=43...  
 [CV 1/5; 425/1980] END leaf\_size=24, n\_neighbors=29;; score=0.646 total time=0.0s  
 [CV 2/5; 425/1980] START leaf\_size=24, n\_neighbors=29...  
 [CV 1/5; 433/1980] END leaf\_size=24, n\_neighbors=37;; score=0.657 total time=0.0s  
 [CV 2/5; 433/1980] START leaf\_size=24, n\_neighbors=37...  
 [CV 4/5; 429/1980] END leaf\_size=24, n\_neighbors=33;; score=0.597 total time=0.0s  
 [CV 5/5; 429/1980] START leaf\_size=24, n\_neighbors=33...  
 [CV 3/5; 428/1980] END leaf\_size=24, n\_neighbors=32;; score=0.577 total time=0.0s  
 [CV 4/5; 428/1980] START leaf\_size=24, n\_neighbors=32...  
 [CV 3/5; 434/1980] END leaf\_size=24, n\_neighbors=38;; score=0.566 total time=0.0s  
 [CV 4/5; 434/1980] START leaf\_size=24, n\_neighbors=38...  
 [CV 4/5; 431/1980] END leaf\_size=24, n\_neighbors=35;; score=0.604 total time=0.0s

[CV 5/5; 431/1980] START leaf\_size=24, n\_neighbors=35...  
 [CV 1/5; 436/1980] END leaf\_size=24, n\_neighbors=40;; score=0.661 total time=0.0s  
 [CV 2/5; 436/1980] START leaf\_size=24, n\_neighbors=40...  
 [CV 3/5; 437/1980] END leaf\_size=24, n\_neighbors=41;; score=0.568 total time=0.0s  
 [CV 4/5; 437/1980] START leaf\_size=24, n\_neighbors=41...  
 [CV 1/5; 427/1980] END leaf\_size=24, n\_neighbors=31;; score=0.644 total time=0.0s  
 [CV 2/5; 427/1980] START leaf\_size=24, n\_neighbors=31...  
 [CV 1/5; 439/1980] END leaf\_size=24, n\_neighbors=43;; score=0.674 total time=0.0s  
 [CV 2/5; 439/1980] START leaf\_size=24, n\_neighbors=43...  
 [CV 2/5; 425/1980] END leaf\_size=24, n\_neighbors=29;; score=0.600 total time=0.0s  
 [CV 3/5; 425/1980] START leaf\_size=24, n\_neighbors=29...  
 [CV 2/5; 433/1980] END leaf\_size=24, n\_neighbors=37;; score=0.607 total time=0.0s  
 [CV 3/5; 433/1980] START leaf\_size=24, n\_neighbors=37...  
 [CV 4/5; 428/1980] END leaf\_size=24, n\_neighbors=32;; score=0.593 total time=0.0s  
 [CV 5/5; 428/1980] START leaf\_size=24, n\_neighbors=32...  
 [CV 5/5; 431/1980] END leaf\_size=24, n\_neighbors=35;; score=0.639 total time=0.0s  
 [CV 1/5; 432/1980] START leaf\_size=24, n\_neighbors=36...  
 [CV 2/5; 436/1980] END leaf\_size=24, n\_neighbors=40;; score=0.611 total time=0.0s  
 [CV 3/5; 436/1980] START leaf\_size=24, n\_neighbors=40...  
 [CV 2/5; 427/1980] END leaf\_size=24, n\_neighbors=31;; score=0.603 total time=0.0s  
 [CV 4/5; 434/1980] END leaf\_size=24, n\_neighbors=38;; score=0.602 total time=0.0s  
 [CV 5/5; 434/1980] START leaf\_size=24, n\_neighbors=38...  
 [CV 5/5; 429/1980] END leaf\_size=24, n\_neighbors=33;; score=0.630 total time=0.0s  
 [CV 2/5; 440/1980] START leaf\_size=24, n\_neighbors=44...  
  
 [CV 1/5; 430/1980] START leaf\_size=24, n\_neighbors=34...  
 [CV 4/5; 437/1980] END leaf\_size=24, n\_neighbors=41;; score=0.610 total time=0.0s  
 [CV 5/5; 437/1980] START leaf\_size=24, n\_neighbors=41...  
 [CV 2/5; 439/1980] END leaf\_size=24, n\_neighbors=43;; score=0.616 total time=0.0s  
 [CV 3/5; 439/1980] START leaf\_size=24, n\_neighbors=43...  
 [CV 3/5; 425/1980] END leaf\_size=24, n\_neighbors=29;; score=0.577 total time=0.0s  
 [CV 4/5; 425/1980] START leaf\_size=24, n\_neighbors=29...  
 [CV 3/5; 433/1980] END leaf\_size=24, n\_neighbors=37;; score=0.568 total time=

0.0s  
[CV 4/5; 433/1980] START leaf\_size=24, n\_neighbors=37...  
[CV 5/5; 428/1980] END leaf\_size=24, n\_neighbors=32;; score=0.628 total time=0.0s  
[CV 5/5; 441/1980] START leaf\_size=24, n\_neighbors=45...  
[CV 1/5; 432/1980] END leaf\_size=24, n\_neighbors=36;; score=0.644 total time=0.0s  
[CV 3/5; 436/1980] END leaf\_size=24, n\_neighbors=40;; score=0.572 total time=0.0s  
[CV 4/5; 436/1980] START leaf\_size=24, n\_neighbors=40...  
[CV 5/5; 434/1980] END leaf\_size=24, n\_neighbors=38;; score=0.634 total time=0.0s  
[CV 1/5; 435/1980] START leaf\_size=24, n\_neighbors=39...  
[CV 3/5; 443/1980] START leaf\_size=24, n\_neighbors=47...  
[CV 2/5; 440/1980] END leaf\_size=24, n\_neighbors=44;; score=0.613 total time=0.0s  
[CV 3/5; 440/1980] START leaf\_size=24, n\_neighbors=44...  
[CV 4/5; 425/1980] END leaf\_size=24, n\_neighbors=29;; score=0.600 total time=0.0s  
[CV 1/5; 430/1980] END leaf\_size=24, n\_neighbors=34;; score=0.644 total time=0.0s  
[CV 2/5; 430/1980] START leaf\_size=24, n\_neighbors=34...  
[CV 3/5; 439/1980] END leaf\_size=24, n\_neighbors=43;; score=0.566 total time=0.0s  
[CV 4/5; 439/1980] START leaf\_size=24, n\_neighbors=43...  
[CV 5/5; 437/1980] END leaf\_size=24, n\_neighbors=41;; score=0.619 total time=0.0s  
[CV 1/5; 438/1980] START leaf\_size=24, n\_neighbors=42...  
[CV 1/5; 445/1980] START leaf\_size=24, n\_neighbors=49...  
[CV 5/5; 441/1980] END leaf\_size=24, n\_neighbors=45;; score=0.619 total time=0.0s  
[CV 1/5; 442/1980] START leaf\_size=24, n\_neighbors=46...  
[CV 4/5; 433/1980] END leaf\_size=24, n\_neighbors=37;; score=0.610 total time=0.0s  
[CV 3/5; 443/1980] END leaf\_size=24, n\_neighbors=47;; score=0.572 total time=0.0s  
[CV 4/5; 443/1980] START leaf\_size=24, n\_neighbors=47...  
[CV 1/5; 435/1980] END leaf\_size=24, n\_neighbors=39;; score=0.654 total time=0.0s  
[CV 2/5; 435/1980] START leaf\_size=24, n\_neighbors=39...  
[CV 4/5; 436/1980] END leaf\_size=24, n\_neighbors=40;; score=0.595 total time=0.0s  
[CV 5/5; 436/1980] START leaf\_size=24, n\_neighbors=40...  
[CV 4/5; 446/1980] START leaf\_size=24, n\_neighbors=50...  
[CV 3/5; 440/1980] END leaf\_size=24, n\_neighbors=44;; score=0.570 total time=0.0s  
[CV 4/5; 440/1980] START leaf\_size=24, n\_neighbors=44...  
[CV 4/5; 439/1980] END leaf\_size=24, n\_neighbors=43;; score=0.600 total time=

```

0.0s
[CV 5/5; 439/1980] START leaf_size=24, n_neighbors=43...
[CV 2/5; 430/1980] END leaf_size=24, n_neighbors=34;; score=0.600 total time=
0.0s
[CV 3/5; 430/1980] START leaf_size=24, n_neighbors=34...
[CV 1/5; 438/1980] END leaf_size=24, n_neighbors=42;; score=0.667 total time=
0.0s
[CV 2/5; 438/1980] START leaf_size=24, n_neighbors=42...
[CV 1/5; 442/1980] END leaf_size=24, n_neighbors=46;; score=0.672 total time=
0.0s
[CV 2/5; 442/1980] START leaf_size=24, n_neighbors=46...
[CV 4/5; 443/1980] END leaf_size=24, n_neighbors=47;; score=0.589 total time=
0.0s
[CV 1/5; 445/1980] END leaf_size=24, n_neighbors=49;; score=0.676 total time=
0.0s[CV 5/5; 443/1980] START leaf_size=24,
n_neighbors=47...

[CV 2/5; 445/1980] START leaf_size=24, n_neighbors=49...
[CV 4/5; 440/1980] END leaf_size=24, n_neighbors=44;; score=0.597 total time=
0.0s[CV 5/5; 436/1980] END leaf_size=24, n_neighbors=40;; score=0.617 total
time= 0.0s

[CV 5/5; 440/1980] START leaf_size=24, n_neighbors=44...
[CV 2/5; 448/1980] START leaf_size=24, n_neighbors=52...
[CV 2/5; 435/1980] END leaf_size=24, n_neighbors=39;; score=0.609 total time=
0.0s
[CV 5/5; 449/1980] START leaf_size=24, n_neighbors=53...
[CV 5/5; 439/1980] END leaf_size=24, n_neighbors=43;; score=0.615 total time=
0.0s
[CV 1/5; 440/1980] START leaf_size=24, n_neighbors=44...
[CV 3/5; 430/1980] END leaf_size=24, n_neighbors=34;; score=0.577 total time=
0.0s
[CV 4/5; 446/1980] END leaf_size=24, n_neighbors=50;; score=0.597 total time=
0.0s
[CV 5/5; 446/1980] START leaf_size=24, n_neighbors=50...
[CV 3/5; 451/1980] START leaf_size=24, n_neighbors=55...
[CV 2/5; 442/1980] END leaf_size=24, n_neighbors=46;; score=0.616 total time=
0.0s
[CV 3/5; 442/1980] START leaf_size=24, n_neighbors=46...
[CV 5/5; 443/1980] END leaf_size=24, n_neighbors=47;; score=0.623 total time=
0.0s
[CV 1/5; 444/1980] START leaf_size=24, n_neighbors=48...
[CV 2/5; 445/1980] END leaf_size=24, n_neighbors=49;; score=0.622 total time=
0.0s
[CV 3/5; 445/1980] START leaf_size=24, n_neighbors=49...
[CV 2/5; 438/1980] END leaf_size=24, n_neighbors=42;; score=0.618 total time=
0.0s[CV 5/5; 440/1980] END leaf_size=24, n_neighbors=44;; score=0.615 total
time= 0.0s

```

[CV 1/5; 441/1980] START leaf\_size=24,  
 n\_neighbors=45...[CV 3/5; 438/1980] START leaf\_size=24,  
 n\_neighbors=42...

[CV 2/5; 448/1980] END leaf\_size=24, n\_neighbors=52;;, score=0.611 total time=  
 0.0s  
 [CV 3/5; 448/1980] START leaf\_size=24, n\_neighbors=52...  
 [CV 1/5; 440/1980] END leaf\_size=24, n\_neighbors=44;;, score=0.667 total time=  
 0.0s  
 [CV 1/5; 453/1980] START leaf\_size=24, n\_neighbors=57...  
 [CV 5/5; 449/1980] END leaf\_size=24, n\_neighbors=53;;, score=0.613 total time=  
 0.0s  
 [CV 1/5; 450/1980] START leaf\_size=24, n\_neighbors=54...  
 [CV 3/5; 451/1980] END leaf\_size=24, n\_neighbors=55;;, score=0.564 total time=  
 0.0s  
 [CV 4/5; 451/1980] START leaf\_size=24, n\_neighbors=55...  
 [CV 3/5; 442/1980] END leaf\_size=24, n\_neighbors=46;;, score=0.572 total time=  
 0.0s  
 [CV 4/5; 442/1980] START leaf\_size=24, n\_neighbors=46...  
 [CV 1/5; 444/1980] END leaf\_size=24, n\_neighbors=48;;, score=0.672 total time=  
 0.0s  
 [CV 2/5; 444/1980] START leaf\_size=24, n\_neighbors=48...  
 [CV 3/5; 445/1980] END leaf\_size=24, n\_neighbors=49;;, score=0.568 total time=  
 0.0s  
 [CV 4/5; 445/1980] START leaf\_size=24, n\_neighbors=49...  
 [CV 5/5; 446/1980] END leaf\_size=24, n\_neighbors=50;;, score=0.619 total time=  
 0.0s  
 [CV 1/5; 447/1980] START leaf\_size=24, n\_neighbors=51...  
 [CV 1/5; 441/1980] END leaf\_size=24, n\_neighbors=45;;, score=0.678 total time=  
 0.0s  
 [CV 2/5; 441/1980] START leaf\_size=24, n\_neighbors=45...  
 [CV 3/5; 448/1980] END leaf\_size=24, n\_neighbors=52;;, score=0.566 total time=  
 0.0s  
 [CV 4/5; 448/1980] START leaf\_size=24, n\_neighbors=52...  
 [CV 3/5; 438/1980] END leaf\_size=24, n\_neighbors=42;;, score=0.564 total time=  
 0.0s  
 [CV 1/5; 450/1980] END leaf\_size=24, n\_neighbors=54;;, score=0.667 total time=  
 0.0s  
 [CV 2/5; 450/1980] START leaf\_size=24, n\_neighbors=54...  
 [CV 4/5; 454/1980] START leaf\_size=24, n\_neighbors=58...  
 [CV 2/5; 444/1980] END leaf\_size=24, n\_neighbors=48;;, score=0.609 total time=  
 0.0s  
 [CV 3/5; 444/1980] START leaf\_size=24, n\_neighbors=48...  
 [CV 1/5; 453/1980] END leaf\_size=24, n\_neighbors=57;;, score=0.665 total time=  
 0.0s  
 [CV 2/5; 453/1980] START leaf\_size=24, n\_neighbors=57...  
 [CV 4/5; 451/1980] END leaf\_size=24, n\_neighbors=55;;, score=0.593 total time=



```

0.0s
[CV 5/5; 451/1980] START leaf_size=24, n_neighbors=55...
[CV 4/5; 442/1980] END leaf_size=24, n_neighbors=46;; score=0.597 total time=
0.0s
[CV 5/5; 442/1980] START leaf_size=24, n_neighbors=46...
[CV 4/5; 445/1980] END leaf_size=24, n_neighbors=49;; score=0.593 total time=
0.0s
[CV 5/5; 445/1980] START leaf_size=24, n_neighbors=49...
[CV 2/5; 441/1980] END leaf_size=24, n_neighbors=45;; score=0.611 total time=
0.0s
[CV 3/5; 441/1980] START leaf_size=24, n_neighbors=45...
[CV 4/5; 448/1980] END leaf_size=24, n_neighbors=52;; score=0.597 total time=
0.0s
[CV 5/5; 448/1980] START leaf_size=24, n_neighbors=52...
[CV 2/5; 450/1980] END leaf_size=24, n_neighbors=54;; score=0.618 total time=
0.0s
[CV 3/5; 450/1980] START leaf_size=24, n_neighbors=54...
[CV 1/5; 447/1980] END leaf_size=24, n_neighbors=51;; score=0.680 total time=
0.0s
[CV 2/5; 447/1980] START leaf_size=24, n_neighbors=51...
[CV 3/5; 444/1980] END leaf_size=24, n_neighbors=48;; score=0.562 total time=
0.0s
[CV 4/5; 444/1980] START leaf_size=24, n_neighbors=48...
[CV 5/5; 445/1980] END leaf_size=24, n_neighbors=49;; score=0.623 total time=
0.0s
[CV 1/5; 446/1980] START leaf_size=24, n_neighbors=50...
[CV 5/5; 442/1980] END leaf_size=24, n_neighbors=46;; score=0.619 total time=
0.0s[CV 5/5; 451/1980] END leaf_size=24, n_neighbors=55;; score=0.608 total
time= 0.0s
[CV 1/5; 452/1980] START leaf_size=24, n_neighbors=56...
[CV 2/5; 453/1980] END leaf_size=24, n_neighbors=57;; score=0.616 total time=
0.0s
[CV 3/5; 453/1980] START leaf_size=24, n_neighbors=57...

[CV 1/5; 443/1980] START leaf_size=24, n_neighbors=47...
[CV 3/5; 441/1980] END leaf_size=24, n_neighbors=45;; score=0.575 total time=
0.0s
[CV 4/5; 441/1980] START leaf_size=24, n_neighbors=45...
[CV 5/5; 448/1980] END leaf_size=24, n_neighbors=52;; score=0.619 total time=
0.0s
[CV 1/5; 449/1980] START leaf_size=24, n_neighbors=53...
[CV 4/5; 454/1980] END leaf_size=24, n_neighbors=58;; score=0.595 total time=
0.1s
[CV 5/5; 454/1980] START leaf_size=24, n_neighbors=58...
[CV 3/5; 450/1980] END leaf_size=24, n_neighbors=54;; score=0.562 total time=
0.0s
[CV 4/5; 450/1980] START leaf_size=24, n_neighbors=54...
[CV 4/5; 444/1980] END leaf_size=24, n_neighbors=48;; score=0.589 total time=

```

```

0.0s
[CV 5/5; 444/1980] START leaf_size=24, n_neighbors=48...
[CV 1/5; 446/1980] END leaf_size=24, n_neighbors=50;; score=0.678 total time=
0.0s
[CV 2/5; 446/1980] START leaf_size=24, n_neighbors=50...
[CV 1/5; 452/1980] END leaf_size=24, n_neighbors=56;; score=0.670 total time=
0.0s
[CV 2/5; 452/1980] START leaf_size=24, n_neighbors=56...
[CV 3/5; 453/1980] END leaf_size=24, n_neighbors=57;; score=0.559 total time=
0.0s[CV 4/5; 441/1980] END leaf_size=24, n_neighbors=45;; score=0.600 total
time= 0.0s

[CV 4/5; 453/1980] START leaf_size=24, n_neighbors=57...
[CV 1/5; 443/1980] END leaf_size=24, n_neighbors=47;; score=0.676 total time=
0.0s
[CV 2/5; 443/1980] START leaf_size=24, n_neighbors=47...
[CV 2/5; 456/1980] START leaf_size=24, n_neighbors=60...
[CV 1/5; 449/1980] END leaf_size=24, n_neighbors=53;; score=0.678 total time=
0.0s
[CV 2/5; 449/1980] START leaf_size=24, n_neighbors=53...
[CV 2/5; 447/1980] END leaf_size=24, n_neighbors=51;; score=0.618 total time=
0.0s
[CV 3/5; 447/1980] START leaf_size=24, n_neighbors=51...
[CV 5/5; 444/1980] END leaf_size=24, n_neighbors=48;; score=0.630 total time=
0.0s
[CV 5/5; 457/1980] START leaf_size=24, n_neighbors=61...
[CV 4/5; 450/1980] END leaf_size=24, n_neighbors=54;; score=0.595 total time=
0.0s
[CV 5/5; 450/1980] START leaf_size=24, n_neighbors=54...
[CV 2/5; 446/1980] END leaf_size=24, n_neighbors=50;; score=0.603 total time=
0.0s
[CV 3/5; 446/1980] START leaf_size=24, n_neighbors=50...
[CV 5/5; 454/1980] END leaf_size=24, n_neighbors=58;; score=0.610 total time=
0.0s
[CV 1/5; 455/1980] START leaf_size=24, n_neighbors=59...
[CV 2/5; 452/1980] END leaf_size=24, n_neighbors=56;; score=0.609 total time=
0.0s
[CV 3/5; 452/1980] START leaf_size=24, n_neighbors=56...
[CV 2/5; 443/1980] END leaf_size=24, n_neighbors=47;; score=0.611 total time=
0.0s[CV 2/5; 449/1980] END leaf_size=24, n_neighbors=53;; score=0.611 total
time= 0.0s

[CV 3/5; 449/1980] START leaf_size=24, n_neighbors=53...
[CV 4/5; 453/1980] END leaf_size=24, n_neighbors=57;; score=0.597 total time=
0.0s
[CV 5/5; 453/1980] START leaf_size=24, n_neighbors=57...
[CV 2/5; 456/1980] END leaf_size=24, n_neighbors=60;; score=0.605 total time=
0.0s

```

[CV 3/5; 456/1980] START leaf\_size=24, n\_neighbors=60...  
 [CV 3/5; 459/1980] START leaf\_size=24, n\_neighbors=63...  
 [CV 3/5; 447/1980] END leaf\_size=24, n\_neighbors=51;; score=0.566 total time=0.0s  
 [CV 4/5; 447/1980] START leaf\_size=24, n\_neighbors=51...  
 [CV 5/5; 457/1980] END leaf\_size=24, n\_neighbors=61;; score=0.606 total time=0.0s  
 [CV 1/5; 458/1980] START leaf\_size=24, n\_neighbors=62...  
 [CV 3/5; 446/1980] END leaf\_size=24, n\_neighbors=50;; score=0.557 total time=0.0s  
 [CV 5/5; 450/1980] END leaf\_size=24, n\_neighbors=54;; score=0.608 total time=0.0s  
 [CV 1/5; 451/1980] START leaf\_size=24, n\_neighbors=55...  
 [CV 1/5; 461/1980] START leaf\_size=24, n\_neighbors=65...  
 [CV 3/5; 452/1980] END leaf\_size=24, n\_neighbors=56;; score=0.551 total time=0.0s  
 [CV 4/5; 452/1980] START leaf\_size=24, n\_neighbors=56...  
 [CV 3/5; 449/1980] END leaf\_size=24, n\_neighbors=53;; score=0.572 total time=0.0s  
 [CV 4/5; 449/1980] START leaf\_size=24, n\_neighbors=53...  
 [CV 5/5; 453/1980] END leaf\_size=24, n\_neighbors=57;; score=0.610 total time=0.0s  
 [CV 1/5; 454/1980] START leaf\_size=24, n\_neighbors=58...  
 [CV 3/5; 456/1980] END leaf\_size=24, n\_neighbors=60;; score=0.553 total time=0.0s  
 [CV 4/5; 456/1980] START leaf\_size=24, n\_neighbors=60...  
 [CV 3/5; 459/1980] END leaf\_size=24, n\_neighbors=63;; score=0.562 total time=0.0s  
 [CV 4/5; 459/1980] START leaf\_size=24, n\_neighbors=63...  
 [CV 1/5; 455/1980] END leaf\_size=24, n\_neighbors=59;; score=0.670 total time=0.0s  
 [CV 2/5; 455/1980] START leaf\_size=24, n\_neighbors=59...  
 [CV 1/5; 458/1980] END leaf\_size=24, n\_neighbors=62;; score=0.663 total time=0.0s  
 [CV 2/5; 458/1980] START leaf\_size=24, n\_neighbors=62...  
 [CV 1/5; 451/1980] END leaf\_size=24, n\_neighbors=55;; score=0.667 total time=0.0s  
 [CV 2/5; 451/1980] START leaf\_size=24, n\_neighbors=55...  
 [CV 4/5; 447/1980] END leaf\_size=24, n\_neighbors=51;; score=0.602 total time=0.0s  
 [CV 5/5; 447/1980] START leaf\_size=24, n\_neighbors=51...  
 [CV 4/5; 452/1980] END leaf\_size=24, n\_neighbors=56;; score=0.591 total time=0.0s  
 [CV 5/5; 452/1980] START leaf\_size=24, n\_neighbors=56...  
 [CV 4/5; 456/1980] END leaf\_size=24, n\_neighbors=60;; score=0.602 total time=0.0s  
 [CV 5/5; 456/1980] START leaf\_size=24, n\_neighbors=60...  
 [CV 1/5; 461/1980] END leaf\_size=24, n\_neighbors=65;; score=0.663 total time=

0.0s  
 [CV 2/5; 461/1980] START leaf\_size=24, n\_neighbors=65...  
 [CV 4/5; 449/1980] END leaf\_size=24, n\_neighbors=53;; score=0.600 total time=  
 0.0s  
 [CV 1/5; 454/1980] END leaf\_size=24, n\_neighbors=58;; score=0.665 total time=  
 0.0s  
 [CV 2/5; 454/1980] START leaf\_size=24, n\_neighbors=58...  
 [CV 4/5; 462/1980] START leaf\_size=24, n\_neighbors=66...  
 [CV 4/5; 459/1980] END leaf\_size=24, n\_neighbors=63;; score=0.604 total time=  
 0.0s  
 [CV 5/5; 459/1980] START leaf\_size=24, n\_neighbors=63...  
 [CV 2/5; 458/1980] END leaf\_size=24, n\_neighbors=62;; score=0.603 total time=  
 0.0s  
 [CV 3/5; 458/1980] START leaf\_size=24, n\_neighbors=62...  
 [CV 2/5; 451/1980] END leaf\_size=24, n\_neighbors=55;; score=0.618 total time=  
 0.0s  
 [CV 2/5; 464/1980] START leaf\_size=24, n\_neighbors=68...  
 [CV 2/5; 455/1980] END leaf\_size=24, n\_neighbors=59;; score=0.609 total time=  
 0.0s  
 [CV 3/5; 455/1980] START leaf\_size=24, n\_neighbors=59...  
 [CV 5/5; 447/1980] END leaf\_size=24, n\_neighbors=51;; score=0.621 total time=  
 0.0s  
 [CV 1/5; 448/1980] START leaf\_size=24, n\_neighbors=52...  
 [CV 5/5; 456/1980] END leaf\_size=24, n\_neighbors=60;; score=0.604 total time=  
 0.0s  
 [CV 1/5; 457/1980] START leaf\_size=24, n\_neighbors=61...  
 [CV 5/5; 452/1980] END leaf\_size=24, n\_neighbors=56;; score=0.613 total time=  
 0.0s  
 [CV 2/5; 454/1980] END leaf\_size=24, n\_neighbors=58;; score=0.609 total time=  
 0.0s  
 [CV 3/5; 454/1980] START leaf\_size=24, n\_neighbors=58...  
 [CV 5/5; 465/1980] START leaf\_size=24, n\_neighbors=69...  
 [CV 2/5; 461/1980] END leaf\_size=24, n\_neighbors=65;; score=0.616 total time=  
 0.0s  
 [CV 3/5; 461/1980] START leaf\_size=24, n\_neighbors=65...  
 [CV 4/5; 462/1980] END leaf\_size=24, n\_neighbors=66;; score=0.574 total time=  
 0.0s  
 [CV 5/5; 462/1980] START leaf\_size=24, n\_neighbors=66...  
 [CV 3/5; 458/1980] END leaf\_size=24, n\_neighbors=62;; score=0.555 total time=  
 0.0s  
 [CV 4/5; 458/1980] START leaf\_size=24, n\_neighbors=62...  
 [CV 5/5; 459/1980] END leaf\_size=24, n\_neighbors=63;; score=0.615 total time=  
 0.0s  
 [CV 1/5; 460/1980] START leaf\_size=24, n\_neighbors=64...  
 [CV 2/5; 464/1980] END leaf\_size=24, n\_neighbors=68;; score=0.609 total time=  
 0.0s  
 [CV 3/5; 464/1980] START leaf\_size=24, n\_neighbors=68...  
 [CV 3/5; 455/1980] END leaf\_size=24, n\_neighbors=59;; score=0.553 total time=

0.0s  
[CV 4/5; 455/1980] START leaf\_size=24, n\_neighbors=59...  
[CV 3/5; 454/1980] END leaf\_size=24, n\_neighbors=58;; score=0.549 total time=  
0.0s  
[CV 1/5; 457/1980] END leaf\_size=24, n\_neighbors=61;; score=0.665 total time=  
0.0s  
[CV 3/5; 467/1980] START leaf\_size=24, n\_neighbors=71...  
[CV 2/5; 457/1980] START leaf\_size=24, n\_neighbors=61...  
[CV 4/5; 458/1980] END leaf\_size=24, n\_neighbors=62;; score=0.600 total time=  
0.0s  
[CV 5/5; 458/1980] START leaf\_size=24, n\_neighbors=62...  
[CV 3/5; 461/1980] END leaf\_size=24, n\_neighbors=65;; score=0.566 total time=  
0.0s  
[CV 4/5; 461/1980] START leaf\_size=24, n\_neighbors=65...  
[CV 5/5; 465/1980] END leaf\_size=24, n\_neighbors=69;; score=0.621 total time=  
0.0s  
[CV 1/5; 466/1980] START leaf\_size=24, n\_neighbors=70...  
[CV 5/5; 462/1980] END leaf\_size=24, n\_neighbors=66;; score=0.613 total time=  
0.0s  
[CV 1/5; 463/1980] START leaf\_size=24, n\_neighbors=67...  
[CV 1/5; 460/1980] END leaf\_size=24, n\_neighbors=64;; score=0.663 total time=  
0.0s  
[CV 2/5; 460/1980] START leaf\_size=24, n\_neighbors=64...  
[CV 1/5; 448/1980] END leaf\_size=24, n\_neighbors=52;; score=0.676 total time=  
0.0s  
[CV 1/5; 469/1980] START leaf\_size=24, n\_neighbors=73...  
[CV 3/5; 464/1980] END leaf\_size=24, n\_neighbors=68;; score=0.566 total time=  
0.0s  
[CV 4/5; 464/1980] START leaf\_size=24, n\_neighbors=68...  
[CV 4/5; 455/1980] END leaf\_size=24, n\_neighbors=59;; score=0.604 total time=  
0.0s  
[CV 5/5; 455/1980] START leaf\_size=24, n\_neighbors=59...  
[CV 5/5; 458/1980] END leaf\_size=24, n\_neighbors=62;; score=0.610 total time=  
0.0s  
[CV 1/5; 459/1980] START leaf\_size=24, n\_neighbors=63...  
[CV 2/5; 457/1980] END leaf\_size=24, n\_neighbors=61;; score=0.603 total time=  
0.0s  
[CV 3/5; 457/1980] START leaf\_size=24, n\_neighbors=61...  
[CV 3/5; 467/1980] END leaf\_size=24, n\_neighbors=71;; score=0.562 total time=  
0.0s  
[CV 4/5; 467/1980] START leaf\_size=24, n\_neighbors=71...  
[CV 4/5; 461/1980] END leaf\_size=24, n\_neighbors=65;; score=0.591 total time=  
0.0s  
[CV 5/5; 461/1980] START leaf\_size=24, n\_neighbors=65...  
[CV 1/5; 466/1980] END leaf\_size=24, n\_neighbors=70;; score=0.663 total time=  
0.0s  
[CV 2/5; 466/1980] START leaf\_size=24, n\_neighbors=70...  
[CV 1/5; 463/1980] END leaf\_size=24, n\_neighbors=67;; score=0.663 total time=

```

0.0s
[CV 2/5; 463/1980] START leaf_size=24, n_neighbors=67...
[CV 2/5; 460/1980] END leaf_size=24, n_neighbors=64;; score=0.609 total time=
0.0s
[CV 3/5; 460/1980] START leaf_size=24, n_neighbors=64...
[CV 4/5; 464/1980] END leaf_size=24, n_neighbors=68;; score=0.576 total time=
0.0s
[CV 5/5; 464/1980] START leaf_size=24, n_neighbors=68...
[CV 1/5; 469/1980] END leaf_size=24, n_neighbors=73;; score=0.663 total time=
0.0s
[CV 2/5; 469/1980] START leaf_size=24, n_neighbors=73...
[CV 1/5; 459/1980] END leaf_size=24, n_neighbors=63;; score=0.665 total time=
0.0s
[CV 2/5; 459/1980] START leaf_size=24, n_neighbors=63...
[CV 3/5; 457/1980] END leaf_size=24, n_neighbors=61;; score=0.557 total time=
0.0s
[CV 4/5; 457/1980] START leaf_size=24, n_neighbors=61...
[CV 5/5; 455/1980] END leaf_size=24, n_neighbors=59;; score=0.610 total time=
0.0s
[CV 1/5; 456/1980] START leaf_size=24, n_neighbors=60...
[CV 4/5; 467/1980] END leaf_size=24, n_neighbors=71;; score=0.587 total time=
0.0s
[CV 5/5; 467/1980] START leaf_size=24, n_neighbors=71...
[CV 5/5; 461/1980] END leaf_size=24, n_neighbors=65;; score=0.621 total time=
0.0s
[CV 1/5; 462/1980] START leaf_size=24, n_neighbors=66...
[CV 2/5; 463/1980] END leaf_size=24, n_neighbors=67;; score=0.611 total time=
0.0s
[CV 3/5; 463/1980] START leaf_size=24, n_neighbors=67...
[CV 3/5; 460/1980] END leaf_size=24, n_neighbors=64;; score=0.562 total time=
0.0s
[CV 4/5; 460/1980] START leaf_size=24, n_neighbors=64...
[CV 2/5; 466/1980] END leaf_size=24, n_neighbors=70;; score=0.607 total time=
0.0s
[CV 3/5; 466/1980] START leaf_size=24, n_neighbors=70...
[CV 2/5; 459/1980] END leaf_size=24, n_neighbors=63;; score=0.609 total time=
0.0s
[CV 5/5; 464/1980] END leaf_size=24, n_neighbors=68;; score=0.615 total time=
0.1s
[CV 1/5; 465/1980] START leaf_size=24, n_neighbors=69...
[CV 4/5; 470/1980] START leaf_size=24, n_neighbors=74...
[CV 4/5; 457/1980] END leaf_size=24, n_neighbors=61;; score=0.604 total time=
0.0s
[CV 2/5; 472/1980] START leaf_size=24, n_neighbors=76...
[CV 5/5; 467/1980] END leaf_size=24, n_neighbors=71;; score=0.613 total time=
0.0s
[CV 1/5; 468/1980] START leaf_size=24, n_neighbors=72...
[CV 1/5; 456/1980] END leaf_size=24, n_neighbors=60;; score=0.667 total time=

```

0.0s  
 [CV 1/5; 462/1980] END leaf\_size=24, n\_neighbors=66;; score=0.663 total time=0.0s  
 [CV 2/5; 462/1980] START leaf\_size=24, n\_neighbors=66...  
 [CV 4/5; 460/1980] END leaf\_size=24, n\_neighbors=64;; score=0.593 total time=0.0s  
 [CV 5/5; 460/1980] START leaf\_size=24, n\_neighbors=64...  
 [CV 3/5; 463/1980] END leaf\_size=24, n\_neighbors=67;; score=0.564 total time=0.0s  
 [CV 4/5; 463/1980] START leaf\_size=24, n\_neighbors=67...  
 [CV 2/5; 469/1980] END leaf\_size=24, n\_neighbors=73;; score=0.605 total time=0.1s  
 [CV 3/5; 469/1980] START leaf\_size=24, n\_neighbors=73...  
 [CV 3/5; 466/1980] END leaf\_size=24, n\_neighbors=70;; score=0.559 total time=0.0s  
 [CV 4/5; 466/1980] START leaf\_size=24, n\_neighbors=70...  
 [CV 5/5; 473/1980] START leaf\_size=24, n\_neighbors=77...  
 [CV 4/5; 470/1980] END leaf\_size=24, n\_neighbors=74;; score=0.591 total time=0.0s  
 [CV 5/5; 470/1980] START leaf\_size=24, n\_neighbors=74...  
 [CV 1/5; 465/1980] END leaf\_size=24, n\_neighbors=69;; score=0.663 total time=0.0s  
 [CV 2/5; 465/1980] START leaf\_size=24, n\_neighbors=69...  
 [CV 2/5; 472/1980] END leaf\_size=24, n\_neighbors=76;; score=0.603 total time=0.0s  
 [CV 3/5; 472/1980] START leaf\_size=24, n\_neighbors=76...  
 [CV 1/5; 468/1980] END leaf\_size=24, n\_neighbors=72;; score=0.663 total time=0.0s  
 [CV 2/5; 468/1980] START leaf\_size=24, n\_neighbors=72...  
 [CV 5/5; 460/1980] END leaf\_size=24, n\_neighbors=64;; score=0.613 total time=0.0s  
 [CV 4/5; 466/1980] END leaf\_size=24, n\_neighbors=70;; score=0.589 total time=0.0s  
 [CV 2/5; 462/1980] END leaf\_size=24, n\_neighbors=66;; score=0.609 total time=0.0s  
 [CV 5/5; 466/1980] START leaf\_size=24, n\_neighbors=70...  
 [CV 4/5; 463/1980] END leaf\_size=24, n\_neighbors=67;; score=0.587 total time=0.0s  
 [CV 3/5; 462/1980] START leaf\_size=24, n\_neighbors=66...  
 [CV 5/5; 463/1980] START leaf\_size=24, n\_neighbors=67...  
 [CV 3/5; 475/1980] START leaf\_size=24, n\_neighbors=79...  
 [CV 5/5; 470/1980] END leaf\_size=24, n\_neighbors=74;; score=0.623 total time=0.0s  
 [CV 1/5; 471/1980] START leaf\_size=24, n\_neighbors=75...  
 [CV 5/5; 473/1980] END leaf\_size=24, n\_neighbors=77;; score=0.617 total time=0.0s  
 [CV 1/5; 474/1980] START leaf\_size=24, n\_neighbors=78...  
 [CV 3/5; 469/1980] END leaf\_size=24, n\_neighbors=73;; score=0.566 total time=

```

0.0s
[CV 4/5; 469/1980] START leaf_size=24, n_neighbors=73...
[CV 3/5; 472/1980] END leaf_size=24, n_neighbors=76;; score=0.557 total time=
0.0s
[CV 4/5; 472/1980] START leaf_size=24, n_neighbors=76...
[CV 2/5; 468/1980] END leaf_size=24, n_neighbors=72;; score=0.607 total time=
0.0s
[CV 3/5; 468/1980] START leaf_size=24, n_neighbors=72...
[CV 2/5; 465/1980] END leaf_size=24, n_neighbors=69;; score=0.609 total time=
0.0s
[CV 3/5; 465/1980] START leaf_size=24, n_neighbors=69...
[CV 5/5; 466/1980] END leaf_size=24, n_neighbors=70;; score=0.606 total time=
0.0s
[CV 1/5; 467/1980] START leaf_size=24, n_neighbors=71...
[CV 5/5; 463/1980] END leaf_size=24, n_neighbors=67;; score=0.613 total time=
0.0s
[CV 1/5; 464/1980] START leaf_size=24, n_neighbors=68...
[CV 1/5; 471/1980] END leaf_size=24, n_neighbors=75;; score=0.667 total time=
0.0s
[CV 2/5; 471/1980] START leaf_size=24, n_neighbors=75...
[CV 3/5; 468/1980] END leaf_size=24, n_neighbors=72;; score=0.562 total time=
0.0s
[CV 4/5; 468/1980] START leaf_size=24, n_neighbors=72...
[CV 4/5; 472/1980] END leaf_size=24, n_neighbors=76;; score=0.578 total time=
0.0s
[CV 5/5; 472/1980] START leaf_size=24, n_neighbors=76...
[CV 1/5; 464/1980] END leaf_size=24, n_neighbors=68;; score=0.667 total time=
0.0s
[CV 1/5; 477/1980] START leaf_size=24, n_neighbors=81...
[CV 2/5; 471/1980] END leaf_size=24, n_neighbors=75;; score=0.603 total time=
0.0s
[CV 3/5; 471/1980] START leaf_size=24, n_neighbors=75...
[CV 3/5; 465/1980] END leaf_size=24, n_neighbors=69;; score=0.568 total time=
0.0s
[CV 4/5; 465/1980] START leaf_size=24, n_neighbors=69...
[CV 3/5; 462/1980] END leaf_size=24, n_neighbors=66;; score=0.566 total time=
0.1s[CV 4/5; 468/1980] END leaf_size=24, n_neighbors=72;; score=0.593 total
time= 0.0s
[CV 5/5; 468/1980] START leaf_size=24, n_neighbors=72...

[CV 4/5; 478/1980] START leaf_size=24, n_neighbors=82...
[CV 4/5; 469/1980] END leaf_size=24, n_neighbors=73;; score=0.591 total time=
0.1s
[CV 5/5; 469/1980] START leaf_size=24, n_neighbors=73...
[CV 3/5; 475/1980] END leaf_size=24, n_neighbors=79;; score=0.557 total time=
0.1s
[CV 4/5; 475/1980] START leaf_size=24, n_neighbors=79...
[CV 5/5; 472/1980] END leaf_size=24, n_neighbors=76;; score=0.621 total time=

```



```

0.0s
[CV 1/5; 473/1980] START leaf_size=24, n_neighbors=77...
[CV 3/5; 471/1980] END leaf_size=24, n_neighbors=75;; score=0.555 total time=
0.0s
[CV 4/5; 471/1980] START leaf_size=24, n_neighbors=75...
[CV 1/5; 477/1980] END leaf_size=24, n_neighbors=81;; score=0.659 total time=
0.0s
[CV 2/5; 477/1980] START leaf_size=24, n_neighbors=81...
[CV 1/5; 474/1980] END leaf_size=24, n_neighbors=78;; score=0.659 total time=
0.1s
[CV 2/5; 474/1980] START leaf_size=24, n_neighbors=78...
[CV 5/5; 468/1980] END leaf_size=24, n_neighbors=72;; score=0.613 total time=
0.0s
[CV 2/5; 480/1980] START leaf_size=24, n_neighbors=84...
[CV 4/5; 465/1980] END leaf_size=24, n_neighbors=69;; score=0.582 total time=
0.0s
[CV 5/5; 481/1980] START leaf_size=24, n_neighbors=85...
[CV 5/5; 469/1980] END leaf_size=24, n_neighbors=73;; score=0.628 total time=
0.0s
[CV 1/5; 470/1980] START leaf_size=24, n_neighbors=74...
[CV 1/5; 467/1980] END leaf_size=24, n_neighbors=71;; score=0.670 total time=
0.1s
[CV 2/5; 467/1980] START leaf_size=24, n_neighbors=71...
[CV 2/5; 477/1980] END leaf_size=24, n_neighbors=81;; score=0.596 total time=
0.0s
[CV 3/5; 477/1980] START leaf_size=24, n_neighbors=81...
[CV 1/5; 473/1980] END leaf_size=24, n_neighbors=77;; score=0.667 total time=
0.0s
[CV 2/5; 473/1980] START leaf_size=24, n_neighbors=77...
[CV 4/5; 471/1980] END leaf_size=24, n_neighbors=75;; score=0.591 total time=
0.0s
[CV 5/5; 471/1980] START leaf_size=24, n_neighbors=75...
[CV 2/5; 474/1980] END leaf_size=24, n_neighbors=78;; score=0.603 total time=
0.0s
[CV 3/5; 474/1980] START leaf_size=24, n_neighbors=78...
[CV 4/5; 475/1980] END leaf_size=24, n_neighbors=79;; score=0.584 total time=
0.1s
[CV 5/5; 475/1980] START leaf_size=24, n_neighbors=79...
[CV 4/5; 478/1980] END leaf_size=24, n_neighbors=82;; score=0.587 total time=
0.1s
[CV 5/5; 478/1980] START leaf_size=24, n_neighbors=82...
[CV 2/5; 480/1980] END leaf_size=24, n_neighbors=84;; score=0.603 total time=
0.0s
[CV 3/5; 480/1980] START leaf_size=24, n_neighbors=84...
[CV 2/5; 467/1980] END leaf_size=24, n_neighbors=71;; score=0.616 total time=
0.0s
[CV 3/5; 483/1980] START leaf_size=24, n_neighbors=87...
[CV 3/5; 477/1980] END leaf_size=24, n_neighbors=81;; score=0.562 total time=

```

```

0.0s
[CV 4/5; 477/1980] START leaf_size=24, n_neighbors=81...
[CV 5/5; 481/1980] END leaf_size=24, n_neighbors=85;; score=0.626 total time=
0.0s
[CV 1/5; 482/1980] START leaf_size=24, n_neighbors=86...
[CV 1/5; 470/1980] END leaf_size=24, n_neighbors=74;; score=0.661 total time=
0.0s
[CV 2/5; 470/1980] START leaf_size=24, n_neighbors=74...
[CV 5/5; 471/1980] END leaf_size=24, n_neighbors=75;; score=0.632 total time=
0.0s
[CV 1/5; 472/1980] START leaf_size=24, n_neighbors=76...
[CV 2/5; 473/1980] END leaf_size=24, n_neighbors=77;; score=0.605 total time=
0.0s[CV 5/5; 475/1980] END leaf_size=24, n_neighbors=79;; score=0.619 total
time= 0.0s
[CV 1/5; 476/1980] START leaf_size=24, n_neighbors=80...

[CV 3/5; 473/1980] START leaf_size=24, n_neighbors=77...
[CV 5/5; 478/1980] END leaf_size=24, n_neighbors=82;; score=0.630 total time=
0.0s
[CV 1/5; 479/1980] START leaf_size=24, n_neighbors=83...
[CV 3/5; 474/1980] END leaf_size=24, n_neighbors=78;; score=0.555 total time=
0.0s[CV 3/5; 480/1980] END leaf_size=24, n_neighbors=84;; score=0.555 total
time= 0.0s

[CV 4/5; 480/1980] START leaf_size=24, n_neighbors=84...
[CV 4/5; 474/1980] START leaf_size=24, n_neighbors=78...
[CV 4/5; 477/1980] END leaf_size=24, n_neighbors=81;; score=0.587 total time=
0.0s
[CV 5/5; 477/1980] START leaf_size=24, n_neighbors=81...
[CV 3/5; 483/1980] END leaf_size=24, n_neighbors=87;; score=0.562 total time=
0.0s
[CV 4/5; 483/1980] START leaf_size=24, n_neighbors=87...
[CV 1/5; 472/1980] END leaf_size=24, n_neighbors=76;; score=0.667 total time=
0.0s
[CV 1/5; 485/1980] START leaf_size=24, n_neighbors=89...
[CV 2/5; 470/1980] END leaf_size=24, n_neighbors=74;; score=0.607 total time=
0.0s
[CV 3/5; 470/1980] START leaf_size=24, n_neighbors=74...
[CV 1/5; 482/1980] END leaf_size=24, n_neighbors=86;; score=0.648 total time=
0.0s
[CV 2/5; 482/1980] START leaf_size=24, n_neighbors=86...
[CV 1/5; 476/1980] END leaf_size=24, n_neighbors=80;; score=0.659 total time=
0.0s
[CV 2/5; 476/1980] START leaf_size=24, n_neighbors=80...
[CV 1/5; 479/1980] END leaf_size=24, n_neighbors=83;; score=0.650 total time=
0.0s
[CV 2/5; 479/1980] START leaf_size=24, n_neighbors=83...
[CV 4/5; 480/1980] END leaf_size=24, n_neighbors=84;; score=0.582 total time=

```

0.0s  
 [CV 5/5; 480/1980] START leaf\_size=24, n\_neighbors=84...  
 [CV 3/5; 473/1980] END leaf\_size=24, n\_neighbors=77;; score=0.562 total time=  
 0.0s  
 [CV 4/5; 473/1980] START leaf\_size=24, n\_neighbors=77...  
 [CV 5/5; 477/1980] END leaf\_size=24, n\_neighbors=81;; score=0.626 total time=  
 0.0s  
 [CV 1/5; 478/1980] START leaf\_size=24, n\_neighbors=82...  
 [CV 4/5; 474/1980] END leaf\_size=24, n\_neighbors=78;; score=0.571 total time=  
 0.0s  
 [CV 5/5; 474/1980] START leaf\_size=24, n\_neighbors=78...  
 [CV 4/5; 483/1980] END leaf\_size=24, n\_neighbors=87;; score=0.584 total time=  
 0.0s  
 [CV 5/5; 483/1980] START leaf\_size=24, n\_neighbors=87...  
 [CV 1/5; 485/1980] END leaf\_size=24, n\_neighbors=89;; score=0.646 total time=  
 0.0s  
 [CV 2/5; 485/1980] START leaf\_size=24, n\_neighbors=89...  
 [CV 3/5; 470/1980] END leaf\_size=24, n\_neighbors=74;; score=0.557 total time=  
 0.0s  
 [CV 4/5; 486/1980] START leaf\_size=24, n\_neighbors=90...  
 [CV 2/5; 476/1980] END leaf\_size=24, n\_neighbors=80;; score=0.594 total time=  
 0.0s  
 [CV 3/5; 476/1980] START leaf\_size=24, n\_neighbors=80...  
 [CV 2/5; 479/1980] END leaf\_size=24, n\_neighbors=83;; score=0.596 total time=  
 0.0s  
 [CV 3/5; 479/1980] START leaf\_size=24, n\_neighbors=83...  
 [CV 4/5; 473/1980] END leaf\_size=24, n\_neighbors=77;; score=0.580 total time=  
 0.0s  
 [CV 5/5; 480/1980] END leaf\_size=24, n\_neighbors=84;; score=0.626 total time=  
 0.0s  
 [CV 1/5; 481/1980] START leaf\_size=24, n\_neighbors=85...  
 [CV 2/5; 488/1980] START leaf\_size=24,  
 n\_neighbors=92...[CV 2/5; 482/1980] END leaf\_size=24,  
 n\_neighbors=86;; score=0.598 total time= 0.0s  
  
 [CV 3/5; 482/1980] START leaf\_size=24, n\_neighbors=86...  
 [CV 1/5; 478/1980] END leaf\_size=24, n\_neighbors=82;; score=0.659 total time=  
 0.0s  
 [CV 2/5; 478/1980] START leaf\_size=24, n\_neighbors=82...  
 [CV 2/5; 485/1980] END leaf\_size=24, n\_neighbors=89;; score=0.600 total time=  
 0.0s  
 [CV 3/5; 485/1980] START leaf\_size=24, n\_neighbors=89...  
 [CV 5/5; 483/1980] END leaf\_size=24, n\_neighbors=87;; score=0.619 total time=  
 0.0s  
 [CV 1/5; 484/1980] START leaf\_size=24, n\_neighbors=88...  
 [CV 5/5; 474/1980] END leaf\_size=24, n\_neighbors=78;; score=0.628 total time=  
 0.0s  
 [CV 1/5; 475/1980] START leaf\_size=24, n\_neighbors=79...

[CV 3/5; 476/1980] END leaf\_size=24, n\_neighbors=80;; score=0.564 total time=0.0s  
 [CV 4/5; 476/1980] START leaf\_size=24, n\_neighbors=80...  
 [CV 4/5; 486/1980] END leaf\_size=24, n\_neighbors=90;; score=0.580 total time=0.0s  
 [CV 5/5; 486/1980] START leaf\_size=24, n\_neighbors=90...  
 [CV 3/5; 479/1980] END leaf\_size=24, n\_neighbors=83;; score=0.564 total time=0.0s  
 [CV 4/5; 479/1980] START leaf\_size=24, n\_neighbors=83...  
 [CV 1/5; 481/1980] END leaf\_size=24, n\_neighbors=85;; score=0.650 total time=0.0s  
 [CV 2/5; 481/1980] START leaf\_size=24, n\_neighbors=85...  
 [CV 2/5; 488/1980] END leaf\_size=24, n\_neighbors=92;; score=0.598 total time=0.0s  
 [CV 3/5; 488/1980] START leaf\_size=24, n\_neighbors=92...  
 [CV 2/5; 478/1980] END leaf\_size=24, n\_neighbors=82;; score=0.600 total time=0.0s  
 [CV 3/5; 478/1980] START leaf\_size=24, n\_neighbors=82...  
 [CV 3/5; 485/1980] END leaf\_size=24, n\_neighbors=89;; score=0.564 total time=0.0s  
 [CV 4/5; 485/1980] START leaf\_size=24, n\_neighbors=89...  
 [CV 3/5; 482/1980] END leaf\_size=24, n\_neighbors=86;; score=0.559 total time=0.0s  
 [CV 4/5; 482/1980] START leaf\_size=24, n\_neighbors=86...  
 [CV 1/5; 484/1980] END leaf\_size=24, n\_neighbors=88;; score=0.652 total time=0.0s  
 [CV 2/5; 484/1980] START leaf\_size=24, n\_neighbors=88...  
 [CV 1/5; 475/1980] END leaf\_size=24, n\_neighbors=79;; score=0.659 total time=0.0s  
 [CV 2/5; 475/1980] START leaf\_size=24, n\_neighbors=79...  
 [CV 4/5; 476/1980] END leaf\_size=24, n\_neighbors=80;; score=0.584 total time=0.0s  
 [CV 5/5; 476/1980] START leaf\_size=24, n\_neighbors=80...  
 [CV 4/5; 479/1980] END leaf\_size=24, n\_neighbors=83;; score=0.584 total time=0.0s  
 [CV 5/5; 479/1980] START leaf\_size=24, n\_neighbors=83...  
 [CV 5/5; 486/1980] END leaf\_size=24, n\_neighbors=90;; score=0.617 total time=0.0s  
 [CV 1/5; 487/1980] START leaf\_size=24, n\_neighbors=91...  
 [CV 2/5; 481/1980] END leaf\_size=24, n\_neighbors=85;; score=0.600 total time=0.0s  
 [CV 3/5; 481/1980] START leaf\_size=24, n\_neighbors=85...  
 [CV 3/5; 478/1980] END leaf\_size=24, n\_neighbors=82;; score=0.566 total time=0.0s  
 [CV 5/5; 489/1980] START leaf\_size=24, n\_neighbors=93...  
 [CV 3/5; 488/1980] END leaf\_size=24, n\_neighbors=92;; score=0.564 total time=0.0s  
 [CV 4/5; 485/1980] END leaf\_size=24, n\_neighbors=89;; score=0.591 total time=0.0s

[CV 5/5; 485/1980] START leaf\_size=24,  
 n\_neighbors=89...[CV 4/5; 488/1980] START leaf\_size=24,  
 n\_neighbors=92...

[CV 2/5; 484/1980] END leaf\_size=24, n\_neighbors=88;;, score=0.600 total time=  
 0.0s

[CV 3/5; 484/1980] START leaf\_size=24, n\_neighbors=88...

[CV 2/5; 475/1980] END leaf\_size=24, n\_neighbors=79;;, score=0.598 total time=  
 0.0s

[CV 5/5; 476/1980] END leaf\_size=24, n\_neighbors=80;;, score=0.628 total time=  
 0.0s

[CV 4/5; 482/1980] END leaf\_size=24, n\_neighbors=86;;, score=0.580 total time=  
 0.0s

[CV 5/5; 482/1980] START leaf\_size=24, n\_neighbors=86...

[CV 3/5; 491/1980] START leaf\_size=24, n\_neighbors=95...

[CV 5/5; 479/1980] END leaf\_size=24, n\_neighbors=83;;, score=0.619 total time=  
 0.0s

[CV 1/5; 480/1980] START leaf\_size=24, n\_neighbors=84...

[CV 1/5; 493/1980] START leaf\_size=24, n\_neighbors=97...

[CV 3/5; 481/1980] END leaf\_size=24, n\_neighbors=85;;, score=0.557 total time=  
 0.0s

[CV 4/5; 481/1980] START leaf\_size=24, n\_neighbors=85...

[CV 1/5; 487/1980] END leaf\_size=24, n\_neighbors=91;;, score=0.648 total time=  
 0.0s

[CV 2/5; 487/1980] START leaf\_size=24, n\_neighbors=91...

[CV 5/5; 489/1980] END leaf\_size=24, n\_neighbors=93;;, score=0.617 total time=  
 0.0s

[CV 1/5; 490/1980] START leaf\_size=24, n\_neighbors=94...

[CV 5/5; 485/1980] END leaf\_size=24, n\_neighbors=89;;, score=0.621 total time=  
 0.0s

[CV 1/5; 486/1980] START leaf\_size=24, n\_neighbors=90...

[CV 3/5; 484/1980] END leaf\_size=24, n\_neighbors=88;;, score=0.562 total time=  
 0.0s

[CV 4/5; 484/1980] START leaf\_size=24, n\_neighbors=88...

[CV 4/5; 488/1980] END leaf\_size=24, n\_neighbors=92;;, score=0.582 total time=  
 0.0s

[CV 5/5; 488/1980] START leaf\_size=24, n\_neighbors=92...

[CV 1/5; 480/1980] END leaf\_size=24, n\_neighbors=84;;, score=0.654 total time=  
 0.0s

[CV 3/5; 491/1980] END leaf\_size=24, n\_neighbors=95;;, score=0.566 total time=  
 0.0s

[CV 4/5; 491/1980] START leaf\_size=24, n\_neighbors=95...

[CV 5/5; 482/1980] END leaf\_size=24, n\_neighbors=86;;, score=0.623 total time=  
 0.0s

[CV 1/5; 483/1980] START leaf\_size=24, n\_neighbors=87...

[CV 4/5; 494/1980] START leaf\_size=24, n\_neighbors=98...

[CV 4/5; 481/1980] END leaf\_size=24, n\_neighbors=85;;, score=0.576 total time=

0.0s  
 [CV 1/5; 490/1980] END leaf\_size=24, n\_neighbors=94;; score=0.644 total time=  
 0.0s  
 [CV 2/5; 490/1980] START leaf\_size=24, n\_neighbors=94...  
 [CV 1/5; 493/1980] END leaf\_size=24, n\_neighbors=97;; score=0.641 total time=  
 0.0s  
 [CV 2/5; 493/1980] START leaf\_size=24, n\_neighbors=97...  
 [CV 1/5; 486/1980] END leaf\_size=24, n\_neighbors=90;; score=0.650 total time=  
 0.0s  
 [CV 2/5; 486/1980] START leaf\_size=24, n\_neighbors=90...  
 [CV 2/5; 496/1980] START leaf\_size=25, n\_neighbors=1...  
 [CV 2/5; 487/1980] END leaf\_size=24, n\_neighbors=91;; score=0.605 total time=  
 0.0s  
 [CV 3/5; 487/1980] START leaf\_size=24, n\_neighbors=91...  
 [CV 4/5; 484/1980] END leaf\_size=24, n\_neighbors=88;; score=0.578 total time=  
 0.0s  
 [CV 5/5; 484/1980] START leaf\_size=24, n\_neighbors=88...  
 [CV 2/5; 496/1980] END leaf\_size=25, n\_neighbors=1;; score=0.568 total time=  
 0.0s  
 [CV 3/5; 496/1980] START leaf\_size=25, n\_neighbors=1...  
 [CV 4/5; 494/1980] END leaf\_size=24, n\_neighbors=98;; score=0.584 total time=  
 0.0s  
 [CV 5/5; 494/1980] START leaf\_size=24, n\_neighbors=98...  
 [CV 4/5; 491/1980] END leaf\_size=24, n\_neighbors=95;; score=0.584 total time=  
 0.0s  
 [CV 5/5; 491/1980] START leaf\_size=24, n\_neighbors=95...  
 [CV 5/5; 488/1980] END leaf\_size=24, n\_neighbors=92;; score=0.621 total time=  
 0.0s  
 [CV 1/5; 489/1980] START leaf\_size=24, n\_neighbors=93...  
 [CV 1/5; 483/1980] END leaf\_size=24, n\_neighbors=87;; score=0.650 total time=  
 0.0s  
 [CV 2/5; 483/1980] START leaf\_size=24, n\_neighbors=87...  
 [CV 2/5; 486/1980] END leaf\_size=24, n\_neighbors=90;; score=0.600 total time=  
 0.0s  
 [CV 3/5; 486/1980] START leaf\_size=24, n\_neighbors=90...  
 [CV 2/5; 490/1980] END leaf\_size=24, n\_neighbors=94;; score=0.600 total time=  
 0.0s  
 [CV 3/5; 490/1980] START leaf\_size=24, n\_neighbors=94...  
 [CV 2/5; 493/1980] END leaf\_size=24, n\_neighbors=97;; score=0.594 total time=  
 0.0s  
 [CV 3/5; 493/1980] START leaf\_size=24, n\_neighbors=97...  
 [CV 3/5; 496/1980] END leaf\_size=25, n\_neighbors=1;; score=0.490 total time=  
 0.0s  
 [CV 4/5; 496/1980] START leaf\_size=25, n\_neighbors=1...  
 [CV 3/5; 487/1980] END leaf\_size=24, n\_neighbors=91;; score=0.564 total time=  
 0.0s  
 [CV 4/5; 487/1980] START leaf\_size=24, n\_neighbors=91...  
 [CV 5/5; 484/1980] END leaf\_size=24, n\_neighbors=88;; score=0.617 total time=

0.0s  
 [CV 5/5; 494/1980] END leaf\_size=24, n\_neighbors=98;; score=0.606 total time=  
 0.0s  
 [CV 5/5; 491/1980] END leaf\_size=24, n\_neighbors=95;; score=0.608 total time=  
 0.0s  
 [CV 1/5; 495/1980] START leaf\_size=24,  
 n\_neighbors=99...[CV 1/5; 492/1980] START leaf\_size=24,  
 n\_neighbors=96...  
  
 [CV 5/5; 497/1980] START leaf\_size=25, n\_neighbors=2...  
 [CV 4/5; 496/1980] END leaf\_size=25, n\_neighbors=1;; score=0.539 total time=  
 0.0s  
 [CV 5/5; 496/1980] START leaf\_size=25, n\_neighbors=1...  
 [CV 3/5; 486/1980] END leaf\_size=24, n\_neighbors=90;; score=0.564 total time=  
 0.0s  
 [CV 3/5; 490/1980] END leaf\_size=24, n\_neighbors=94;; score=0.562 total time=  
 0.0s  
 [CV 4/5; 490/1980] START leaf\_size=24, n\_neighbors=94...  
 [CV 3/5; 499/1980] START leaf\_size=25, n\_neighbors=4...  
 [CV 1/5; 489/1980] END leaf\_size=24, n\_neighbors=93;; score=0.646 total time=  
 0.0s  
 [CV 2/5; 489/1980] START leaf\_size=24, n\_neighbors=93...  
 [CV 2/5; 483/1980] END leaf\_size=24, n\_neighbors=87;; score=0.603 total time=  
 0.0s  
 [CV 5/5; 497/1980] END leaf\_size=25, n\_neighbors=2;; score=0.574 total time=  
 0.0s  
 [CV 1/5; 501/1980] START leaf\_size=25, n\_neighbors=6...  
 [CV 1/5; 498/1980] START leaf\_size=25, n\_neighbors=3...  
 [CV 3/5; 493/1980] END leaf\_size=24, n\_neighbors=97;; score=0.564 total time=  
 0.0s  
 [CV 4/5; 493/1980] START leaf\_size=24, n\_neighbors=97...  
 [CV 5/5; 496/1980] END leaf\_size=25, n\_neighbors=1;; score=0.567 total time=  
 0.0s  
 [CV 1/5; 497/1980] START leaf\_size=25, n\_neighbors=2...  
 [CV 3/5; 499/1980] END leaf\_size=25, n\_neighbors=4;; score=0.544 total time=  
 0.0s  
 [CV 4/5; 499/1980] START leaf\_size=25, n\_neighbors=4...  
 [CV 4/5; 487/1980] END leaf\_size=24, n\_neighbors=91;; score=0.591 total time=  
 0.0s  
 [CV 5/5; 487/1980] START leaf\_size=24, n\_neighbors=91...  
 [CV 1/5; 495/1980] END leaf\_size=24, n\_neighbors=99;; score=0.641 total time=  
 0.0s  
 [CV 2/5; 495/1980] START leaf\_size=24, n\_neighbors=99...  
 [CV 1/5; 492/1980] END leaf\_size=24, n\_neighbors=96;; score=0.637 total time=  
 0.0s  
 [CV 2/5; 492/1980] START leaf\_size=24, n\_neighbors=96...  
 [CV 1/5; 498/1980] END leaf\_size=25, n\_neighbors=3;; score=0.557 total time=  
 0.0s

[CV 2/5; 498/1980] START leaf\_size=25, n\_neighbors=3...  
 [CV 1/5; 497/1980] END leaf\_size=25, n\_neighbors=2;; score=0.566 total time=0.0s  
 [CV 2/5; 497/1980] START leaf\_size=25, n\_neighbors=2...  
 [CV 4/5; 490/1980] END leaf\_size=24, n\_neighbors=94;; score=0.582 total time=0.0s  
 [CV 5/5; 490/1980] START leaf\_size=24, n\_neighbors=94...  
 [CV 1/5; 501/1980] END leaf\_size=25, n\_neighbors=6;; score=0.570 total time=0.0s  
 [CV 2/5; 501/1980] START leaf\_size=25, n\_neighbors=6...  
 [CV 4/5; 499/1980] END leaf\_size=25, n\_neighbors=4;; score=0.580 total time=0.0s  
 [CV 5/5; 499/1980] START leaf\_size=25, n\_neighbors=4...  
 [CV 2/5; 489/1980] END leaf\_size=24, n\_neighbors=93;; score=0.603 total time=0.0s  
 [CV 3/5; 489/1980] START leaf\_size=24, n\_neighbors=93...  
 [CV 4/5; 493/1980] END leaf\_size=24, n\_neighbors=97;; score=0.580 total time=0.0s  
 [CV 5/5; 493/1980] START leaf\_size=24, n\_neighbors=97...  
 [CV 2/5; 498/1980] END leaf\_size=25, n\_neighbors=3;; score=0.579 total time=0.0s  
 [CV 3/5; 498/1980] START leaf\_size=25, n\_neighbors=3...  
 [CV 2/5; 497/1980] END leaf\_size=25, n\_neighbors=2;; score=0.579 total time=0.0s  
 [CV 3/5; 497/1980] START leaf\_size=25, n\_neighbors=2...  
 [CV 2/5; 492/1980] END leaf\_size=24, n\_neighbors=96;; score=0.598 total time=0.0s  
 [CV 3/5; 492/1980] START leaf\_size=24, n\_neighbors=96...  
 [CV 2/5; 495/1980] END leaf\_size=24, n\_neighbors=99;; score=0.598 total time=0.0s  
 [CV 3/5; 495/1980] START leaf\_size=24, n\_neighbors=99...  
 [CV 5/5; 499/1980] END leaf\_size=25, n\_neighbors=4;; score=0.593 total time=0.0s  
 [CV 1/5; 500/1980] START leaf\_size=25, n\_neighbors=5...  
 [CV 5/5; 490/1980] END leaf\_size=24, n\_neighbors=94;; score=0.608 total time=0.0s  
 [CV 1/5; 491/1980] START leaf\_size=24, n\_neighbors=95...  
 [CV 3/5; 497/1980] END leaf\_size=25, n\_neighbors=2;; score=0.512 total time=0.0s  
 [CV 4/5; 497/1980] START leaf\_size=25, n\_neighbors=2...  
 [CV 5/5; 487/1980] END leaf\_size=24, n\_neighbors=91;; score=0.623 total time=0.0s  
 [CV 1/5; 488/1980] START leaf\_size=24, n\_neighbors=92...  
 [CV 3/5; 498/1980] END leaf\_size=25, n\_neighbors=3;; score=0.484 total time=0.0s  
 [CV 4/5; 498/1980] START leaf\_size=25, n\_neighbors=3...  
 [CV 1/5; 500/1980] END leaf\_size=25, n\_neighbors=5;; score=0.546 total time=0.0s



[CV 2/5; 500/1980] START leaf\_size=25, n\_neighbors=5...  
 [CV 5/5; 493/1980] END leaf\_size=24, n\_neighbors=97;; score=0.602 total time=0.0s  
 [CV 3/5; 489/1980] END leaf\_size=24, n\_neighbors=93;; score=0.564 total time=0.0s  
 [CV 1/5; 494/1980] START leaf\_size=24, n\_neighbors=98...  
  
 [CV 4/5; 489/1980] START leaf\_size=24, n\_neighbors=93...  
 [CV 2/5; 501/1980] END leaf\_size=25, n\_neighbors=6;; score=0.546 total time=0.1s  
 [CV 3/5; 501/1980] START leaf\_size=25, n\_neighbors=6...  
 [CV 4/5; 498/1980] END leaf\_size=25, n\_neighbors=3;; score=0.584 total time=0.0s  
 [CV 3/5; 495/1980] END leaf\_size=24, n\_neighbors=99;; score=0.566 total time=0.0s  
 [CV 5/5; 498/1980] START leaf\_size=25, n\_neighbors=3...  
 [CV 4/5; 495/1980] START leaf\_size=24, n\_neighbors=99...  
 [CV 4/5; 497/1980] END leaf\_size=25, n\_neighbors=2;; score=0.571 total time=0.0s  
 [CV 3/5; 492/1980] END leaf\_size=24, n\_neighbors=96;; score=0.564 total time=0.0s  
 [CV 4/5; 492/1980] START leaf\_size=24, n\_neighbors=96...  
 [CV 4/5; 502/1980] START leaf\_size=25, n\_neighbors=7...  
 [CV 2/5; 500/1980] END leaf\_size=25, n\_neighbors=5;; score=0.562 total time=0.0s  
 [CV 3/5; 500/1980] START leaf\_size=25, n\_neighbors=5...  
 [CV 1/5; 491/1980] END leaf\_size=24, n\_neighbors=95;; score=0.644 total time=0.0s  
 [CV 2/5; 491/1980] START leaf\_size=24, n\_neighbors=95...  
 [CV 5/5; 498/1980] END leaf\_size=25, n\_neighbors=3;; score=0.593 total time=0.0s  
 [CV 1/5; 499/1980] START leaf\_size=25, n\_neighbors=4...  
 [CV 4/5; 502/1980] END leaf\_size=25, n\_neighbors=7;; score=0.584 total time=0.0s  
 [CV 5/5; 502/1980] START leaf\_size=25, n\_neighbors=7...  
 [CV 1/5; 488/1980] END leaf\_size=24, n\_neighbors=92;; score=0.646 total time=0.0s  
 [CV 3/5; 500/1980] END leaf\_size=25, n\_neighbors=5;; score=0.536 total time=0.0s  
 [CV 4/5; 500/1980] START leaf\_size=25, n\_neighbors=5...  
 [CV 2/5; 504/1980] START leaf\_size=25, n\_neighbors=9...  
 [CV 1/5; 494/1980] END leaf\_size=24, n\_neighbors=98;; score=0.635 total time=0.0s  
 [CV 2/5; 494/1980] START leaf\_size=24, n\_neighbors=98...  
 [CV 3/5; 501/1980] END leaf\_size=25, n\_neighbors=6;; score=0.555 total time=0.0s  
 [CV 4/5; 501/1980] START leaf\_size=25, n\_neighbors=6...  
 [CV 4/5; 495/1980] END leaf\_size=24, n\_neighbors=99;; score=0.589 total time=

0.0s  
[CV 5/5; 495/1980] START leaf\_size=24, n\_neighbors=99...  
[CV 4/5; 492/1980] END leaf\_size=24, n\_neighbors=96;; score=0.582 total time=0.0s  
[CV 5/5; 492/1980] START leaf\_size=24, n\_neighbors=96...  
[CV 4/5; 489/1980] END leaf\_size=24, n\_neighbors=93;; score=0.587 total time=0.0s  
[CV 1/5; 499/1980] END leaf\_size=25, n\_neighbors=4;; score=0.562 total time=0.0s  
[CV 2/5; 499/1980] START leaf\_size=25, n\_neighbors=4...  
[CV 5/5; 505/1980] START leaf\_size=25, n\_neighbors=10...  
[CV 2/5; 491/1980] END leaf\_size=24, n\_neighbors=95;; score=0.603 total time=0.0s  
[CV 5/5; 502/1980] END leaf\_size=25, n\_neighbors=7;; score=0.613 total time=0.0s  
[CV 1/5; 503/1980] START leaf\_size=25, n\_neighbors=8...  
[CV 4/5; 500/1980] END leaf\_size=25, n\_neighbors=5;; score=0.589 total time=0.0s  
[CV 5/5; 500/1980] START leaf\_size=25, n\_neighbors=5...  
[CV 3/5; 507/1980] START leaf\_size=25, n\_neighbors=12...  
[CV 2/5; 504/1980] END leaf\_size=25, n\_neighbors=9;; score=0.570 total time=0.0s  
[CV 3/5; 504/1980] START leaf\_size=25, n\_neighbors=9...  
[CV 2/5; 499/1980] END leaf\_size=25, n\_neighbors=4;; score=0.581 total time=0.0s  
[CV 2/5; 494/1980] END leaf\_size=24, n\_neighbors=98;; score=0.596 total time=0.0s  
[CV 3/5; 494/1980] START leaf\_size=24, n\_neighbors=98...  
[CV 5/5; 500/1980] END leaf\_size=25, n\_neighbors=5;; score=0.591 total time=0.0s  
[CV 1/5; 503/1980] END leaf\_size=25, n\_neighbors=8;; score=0.568 total time=0.0s  
[CV 2/5; 503/1980] START leaf\_size=25, n\_neighbors=8...  
[CV 5/5; 495/1980] END leaf\_size=24, n\_neighbors=99;; score=0.610 total time=0.0s  
[CV 1/5; 496/1980] START leaf\_size=25, n\_neighbors=1...  
[CV 3/5; 507/1980] END leaf\_size=25, n\_neighbors=12;; score=0.546 total time=0.0s  
[CV 5/5; 492/1980] END leaf\_size=24, n\_neighbors=96;; score=0.604 total time=0.0s  
[CV 4/5; 507/1980] START leaf\_size=25, n\_neighbors=12...  
[CV 5/5; 505/1980] END leaf\_size=25, n\_neighbors=10;; score=0.615 total time=0.0s  
[CV 1/5; 506/1980] START leaf\_size=25, n\_neighbors=11...  
[CV 4/5; 501/1980] END leaf\_size=25, n\_neighbors=6;; score=0.578 total time=0.0s  
[CV 5/5; 501/1980] START leaf\_size=25, n\_neighbors=6...  
[CV 1/5; 509/1980] START leaf\_size=25, n\_neighbors=14...

[CV 4/5; 510/1980] START leaf\_size=25, n\_neighbors=15...  
 [CV 2/5; 512/1980] START leaf\_size=25, n\_neighbors=17...  
 [CV 3/5; 504/1980] END leaf\_size=25, n\_neighbors=9;; score=0.559 total time=0.0s  
 [CV 4/5; 504/1980] START leaf\_size=25, n\_neighbors=9...  
 [CV 2/5; 503/1980] END leaf\_size=25, n\_neighbors=8;; score=0.551 total time=0.0s  
 [CV 3/5; 503/1980] START leaf\_size=25, n\_neighbors=8...  
 [CV 1/5; 496/1980] END leaf\_size=25, n\_neighbors=1;; score=0.516 total time=0.0s  
 [CV 5/5; 513/1980] START leaf\_size=25, n\_neighbors=18...  
 [CV 4/5; 507/1980] END leaf\_size=25, n\_neighbors=12;; score=0.576 total time=0.0s  
 [CV 5/5; 507/1980] START leaf\_size=25, n\_neighbors=12...  
 [CV 1/5; 509/1980] END leaf\_size=25, n\_neighbors=14;; score=0.644 total time=0.0s  
 [CV 2/5; 509/1980] START leaf\_size=25, n\_neighbors=14...  
 [CV 3/5; 494/1980] END leaf\_size=24, n\_neighbors=98;; score=0.562 total time=0.0s  
 [CV 1/5; 506/1980] END leaf\_size=25, n\_neighbors=11;; score=0.624 total time=0.0s  
 [CV 2/5; 506/1980] START leaf\_size=25, n\_neighbors=11...  
 [CV 5/5; 501/1980] END leaf\_size=25, n\_neighbors=6;; score=0.582 total time=0.0s  
 [CV 1/5; 502/1980] START leaf\_size=25, n\_neighbors=7...  
 [CV 3/5; 515/1980] START leaf\_size=25, n\_neighbors=20...  
 [CV 2/5; 512/1980] END leaf\_size=25, n\_neighbors=17;; score=0.568 total time=0.0s  
 [CV 4/5; 510/1980] END leaf\_size=25, n\_neighbors=15;; score=0.584 total time=0.0s  
 [CV 5/5; 510/1980] START leaf\_size=25, n\_neighbors=15...  
  
 [CV 3/5; 512/1980] START leaf\_size=25, n\_neighbors=17...  
 [CV 3/5; 503/1980] END leaf\_size=25, n\_neighbors=8;; score=0.551 total time=0.0s  
 [CV 4/5; 504/1980] END leaf\_size=25, n\_neighbors=9;; score=0.589 total time=0.0s  
 [CV 4/5; 503/1980] START leaf\_size=25, n\_neighbors=8...  
 [CV 5/5; 504/1980] START leaf\_size=25, n\_neighbors=9...  
 [CV 5/5; 513/1980] END leaf\_size=25, n\_neighbors=18;; score=0.617 total time=0.0s  
 [CV 1/5; 514/1980] START leaf\_size=25, n\_neighbors=19...  
 [CV 5/5; 507/1980] END leaf\_size=25, n\_neighbors=12;; score=0.613 total time=0.0s  
 [CV 1/5; 508/1980] START leaf\_size=25, n\_neighbors=13...  
 [CV 2/5; 506/1980] END leaf\_size=25, n\_neighbors=11;; score=0.579 total time=0.0s  
 [CV 3/5; 506/1980] START leaf\_size=25, n\_neighbors=11...  
 [CV 2/5; 509/1980] END leaf\_size=25, n\_neighbors=14;; score=0.572 total time=

0.0s  
 [CV 3/5; 509/1980] START leaf\_size=25, n\_neighbors=14...  
 [CV 1/5; 502/1980] END leaf\_size=25, n\_neighbors=7;; score=0.568 total time=  
 0.0s  
 [CV 3/5; 515/1980] END leaf\_size=25, n\_neighbors=20;; score=0.553 total time=  
 0.0s  
 [CV 2/5; 502/1980] START leaf\_size=25, n\_neighbors=7...  
 [CV 4/5; 515/1980] START leaf\_size=25, n\_neighbors=20...  
 [CV 3/5; 512/1980] END leaf\_size=25, n\_neighbors=17;; score=0.564 total time=  
 0.0s  
 [CV 4/5; 512/1980] START leaf\_size=25, n\_neighbors=17...  
 [CV 4/5; 503/1980] END leaf\_size=25, n\_neighbors=8;; score=0.617 total time=  
 0.0s  
 [CV 5/5; 503/1980] START leaf\_size=25, n\_neighbors=8...  
 [CV 5/5; 510/1980] END leaf\_size=25, n\_neighbors=15;; score=0.615 total time=  
 0.0s  
 [CV 1/5; 511/1980] START leaf\_size=25, n\_neighbors=16...  
 [CV 3/5; 506/1980] END leaf\_size=25, n\_neighbors=11;; score=0.551 total time=  
 0.0s  
 [CV 4/5; 506/1980] START leaf\_size=25, n\_neighbors=11...  
 [CV 5/5; 504/1980] END leaf\_size=25, n\_neighbors=9;; score=0.613 total time=  
 0.0s  
 [CV 1/5; 505/1980] START leaf\_size=25, n\_neighbors=10...  
 [CV 3/5; 509/1980] END leaf\_size=25, n\_neighbors=14;; score=0.544 total time=  
 0.0s  
 [CV 4/5; 509/1980] START leaf\_size=25, n\_neighbors=14...  
 [CV 1/5; 508/1980] END leaf\_size=25, n\_neighbors=13;; score=0.633 total time=  
 0.0s  
 [CV 2/5; 508/1980] START leaf\_size=25, n\_neighbors=13...  
 [CV 1/5; 514/1980] END leaf\_size=25, n\_neighbors=19;; score=0.637 total time=  
 0.0s  
 [CV 2/5; 514/1980] START leaf\_size=25, n\_neighbors=19...  
 [CV 4/5; 515/1980] END leaf\_size=25, n\_neighbors=20;; score=0.600 total time=  
 0.0s  
 [CV 5/5; 515/1980] START leaf\_size=25, n\_neighbors=20...  
 [CV 2/5; 502/1980] END leaf\_size=25, n\_neighbors=7;; score=0.559 total time=  
 0.0s  
 [CV 3/5; 502/1980] START leaf\_size=25, n\_neighbors=7...  
 [CV 5/5; 503/1980] END leaf\_size=25, n\_neighbors=8;; score=0.608 total time=  
 0.0s  
 [CV 1/5; 504/1980] START leaf\_size=25, n\_neighbors=9...  
 [CV 4/5; 512/1980] END leaf\_size=25, n\_neighbors=17;; score=0.580 total time=  
 0.0s  
 [CV 5/5; 512/1980] START leaf\_size=25, n\_neighbors=17...  
 [CV 1/5; 511/1980] END leaf\_size=25, n\_neighbors=16;; score=0.637 total time=  
 0.0s  
 [CV 2/5; 511/1980] START leaf\_size=25, n\_neighbors=16...  
 [CV 4/5; 506/1980] END leaf\_size=25, n\_neighbors=11;; score=0.589 total time=

```

0.0s
[CV 5/5; 506/1980] START leaf_size=25, n_neighbors=11...
[CV 4/5; 509/1980] END leaf_size=25, n_neighbors=14;;, score=0.584 total time=
0.0s
[CV 5/5; 509/1980] START leaf_size=25, n_neighbors=14...
[CV 2/5; 508/1980] END leaf_size=25, n_neighbors=13;;, score=0.570 total time=
0.0s
[CV 5/5; 515/1980] END leaf_size=25, n_neighbors=20;;, score=0.632 total time=
0.0s
[CV 3/5; 508/1980] START leaf_size=25, n_neighbors=13...
[CV 1/5; 516/1980] START leaf_size=25, n_neighbors=21...
[CV 2/5; 514/1980] END leaf_size=25, n_neighbors=19;;, score=0.583 total time=
0.0s
[CV 3/5; 514/1980] START leaf_size=25,
n_neighbors=19...[CV 3/5; 502/1980] END leaf_size=25,
n_neighbors=7;;, score=0.551 total time= 0.0s

[CV 1/5; 517/1980] START leaf_size=25, n_neighbors=22...
[CV 1/5; 505/1980] END leaf_size=25, n_neighbors=10;;, score=0.611 total time=
0.0s
[CV 2/5; 505/1980] START leaf_size=25, n_neighbors=10...
[CV 1/5; 504/1980] END leaf_size=25, n_neighbors=9;;, score=0.592 total time=
0.0s
[CV 4/5; 518/1980] START leaf_size=25, n_neighbors=23...
[CV 5/5; 506/1980] END leaf_size=25, n_neighbors=11;;, score=0.606 total time=
0.0s
[CV 1/5; 507/1980] START leaf_size=25, n_neighbors=12...
[CV 5/5; 509/1980] END leaf_size=25, n_neighbors=14;;, score=0.606 total time=
0.0s
[CV 1/5; 510/1980] START leaf_size=25, n_neighbors=15...
[CV 2/5; 511/1980] END leaf_size=25, n_neighbors=16;;, score=0.575 total time=
0.0s
[CV 3/5; 511/1980] START leaf_size=25, n_neighbors=16...
[CV 3/5; 508/1980] END leaf_size=25, n_neighbors=13;;, score=0.553 total time=
0.0s
[CV 4/5; 508/1980] START leaf_size=25, n_neighbors=13...
[CV 1/5; 516/1980] END leaf_size=25, n_neighbors=21;;, score=0.626 total time=
0.0s
[CV 2/5; 516/1980] START leaf_size=25, n_neighbors=21...
[CV 5/5; 512/1980] END leaf_size=25, n_neighbors=17;;, score=0.610 total time=
0.0s
[CV 1/5; 513/1980] START leaf_size=25, n_neighbors=18...
[CV 3/5; 514/1980] END leaf_size=25, n_neighbors=19;;, score=0.551 total time=
0.0s
[CV 4/5; 514/1980] START leaf_size=25, n_neighbors=19...
[CV 4/5; 518/1980] END leaf_size=25, n_neighbors=23;;, score=0.600 total time=
0.0s
[CV 5/5; 518/1980] START leaf_size=25, n_neighbors=23...

```

[CV 1/5; 517/1980] END leaf\_size=25, n\_neighbors=22;; score=0.622 total time=0.0s  
 [CV 2/5; 517/1980] START leaf\_size=25, n\_neighbors=22...  
 [CV 1/5; 507/1980] END leaf\_size=25, n\_neighbors=12;; score=0.648 total time=0.0s  
 [CV 2/5; 507/1980] START leaf\_size=25, n\_neighbors=12...  
 [CV 1/5; 510/1980] END leaf\_size=25, n\_neighbors=15;; score=0.637 total time=0.0s  
 [CV 2/5; 510/1980] START leaf\_size=25, n\_neighbors=15...  
 [CV 4/5; 508/1980] END leaf\_size=25, n\_neighbors=13;; score=0.574 total time=0.0s  
 [CV 5/5; 508/1980] START leaf\_size=25, n\_neighbors=13...  
 [CV 2/5; 516/1980] END leaf\_size=25, n\_neighbors=21;; score=0.581 total time=0.0s  
 [CV 1/5; 513/1980] END leaf\_size=25, n\_neighbors=18;; score=0.635 total time= 0.0s  
 [CV 2/5; 513/1980] START leaf\_size=25, n\_neighbors=18...  
 [CV 2/5; 505/1980] END leaf\_size=25, n\_neighbors=10;; score=0.568 total time=0.0s  
 [CV 4/5; 514/1980] END leaf\_size=25, n\_neighbors=19;; score=0.589 total time=0.0s  
 [CV 3/5; 505/1980] START leaf\_size=25, n\_neighbors=10...  
  
 [CV 5/5; 514/1980] START leaf\_size=25, n\_neighbors=19...  
  
 [CV 3/5; 516/1980] START leaf\_size=25, n\_neighbors=21...  
 [CV 2/5; 507/1980] END leaf\_size=25, n\_neighbors=12;; score=0.581 total time=0.0s  
 [CV 5/5; 518/1980] END leaf\_size=25, n\_neighbors=23;; score=0.643 total time=0.0s  
 [CV 1/5; 519/1980] START leaf\_size=25, n\_neighbors=24...  
 [CV 2/5; 520/1980] START leaf\_size=25, n\_neighbors=25...  
 [CV 2/5; 510/1980] END leaf\_size=25, n\_neighbors=15;; score=0.570 total time=0.0s  
 [CV 3/5; 510/1980] START leaf\_size=25, n\_neighbors=15...  
 [CV 5/5; 508/1980] END leaf\_size=25, n\_neighbors=13;; score=0.591 total time=0.0s  
 [CV 5/5; 521/1980] START leaf\_size=25, n\_neighbors=26...  
 [CV 2/5; 517/1980] END leaf\_size=25, n\_neighbors=22;; score=0.587 total time=0.0s  
 [CV 3/5; 517/1980] START leaf\_size=25, n\_neighbors=22...  
 [CV 2/5; 513/1980] END leaf\_size=25, n\_neighbors=18;; score=0.590 total time=0.0s  
 [CV 5/5; 514/1980] END leaf\_size=25, n\_neighbors=19;; score=0.626 total time=0.0s  
 [CV 3/5; 513/1980] START leaf\_size=25, n\_neighbors=18...  
 [CV 1/5; 515/1980] START leaf\_size=25, n\_neighbors=20...  
 [CV 3/5; 516/1980] END leaf\_size=25, n\_neighbors=21;; score=0.559 total time=0.0s

[CV 4/5; 516/1980] START leaf\_size=25, n\_neighbors=21...  
 [CV 3/5; 511/1980] END leaf\_size=25, n\_neighbors=16;; score=0.557 total time=0.1s  
 [CV 4/5; 511/1980] START leaf\_size=25, n\_neighbors=16...  
 [CV 1/5; 519/1980] END leaf\_size=25, n\_neighbors=24;; score=0.646 total time=0.0s  
 [CV 2/5; 519/1980] START leaf\_size=25, n\_neighbors=24...  
 [CV 2/5; 520/1980] END leaf\_size=25, n\_neighbors=25;; score=0.598 total time=0.0s  
 [CV 3/5; 520/1980] START leaf\_size=25, n\_neighbors=25...  
 [CV 3/5; 510/1980] END leaf\_size=25, n\_neighbors=15;; score=0.557 total time=0.0s  
 [CV 5/5; 521/1980] END leaf\_size=25, n\_neighbors=26;; score=0.628 total time=0.0s  
 [CV 1/5; 522/1980] START leaf\_size=25, n\_neighbors=27...  
 [CV 3/5; 523/1980] START leaf\_size=25, n\_neighbors=28...  
 [CV 3/5; 505/1980] END leaf\_size=25, n\_neighbors=10;; score=0.549 total time=0.0s  
 [CV 4/5; 505/1980] START leaf\_size=25, n\_neighbors=10...  
 [CV 3/5; 517/1980] END leaf\_size=25, n\_neighbors=22;; score=0.555 total time=0.0s  
 [CV 4/5; 517/1980] START leaf\_size=25, n\_neighbors=22...  
 [CV 3/5; 513/1980] END leaf\_size=25, n\_neighbors=18;; score=0.555 total time=0.0s  
 [CV 4/5; 516/1980] END leaf\_size=25, n\_neighbors=21;; score=0.606 total time=0.0s  
  
 [CV 4/5; 513/1980] START leaf\_size=25, n\_neighbors=18...  
 [CV 5/5; 516/1980] START leaf\_size=25, n\_neighbors=21...  
 [CV 1/5; 515/1980] END leaf\_size=25, n\_neighbors=20;; score=0.618 total time=0.0s  
 [CV 2/5; 515/1980] START leaf\_size=25, n\_neighbors=20...  
 [CV 2/5; 519/1980] END leaf\_size=25, n\_neighbors=24;; score=0.596 total time=0.0s  
 [CV 3/5; 519/1980] START leaf\_size=25, n\_neighbors=24...  
 [CV 3/5; 520/1980] END leaf\_size=25, n\_neighbors=25;; score=0.557 total time=0.0s  
 [CV 4/5; 520/1980] START leaf\_size=25, n\_neighbors=25...  
 [CV 1/5; 522/1980] END leaf\_size=25, n\_neighbors=27;; score=0.650 total time=0.0s  
 [CV 2/5; 522/1980] START leaf\_size=25, n\_neighbors=27...  
 [CV 5/5; 516/1980] END leaf\_size=25, n\_neighbors=21;; score=0.621 total time=0.0s  
 [CV 4/5; 513/1980] END leaf\_size=25, n\_neighbors=18;; score=0.600 total time=0.0s  
 [CV 4/5; 517/1980] END leaf\_size=25, n\_neighbors=22;; score=0.600 total time=0.0s  
 [CV 5/5; 517/1980] START leaf\_size=25, n\_neighbors=22...  
 [CV 2/5; 515/1980] END leaf\_size=25, n\_neighbors=20;; score=0.583 total time=

```

0.0s
[CV 3/5; 523/1980] END leaf_size=25, n_neighbors=28;; score=0.568 total time=
0.0s
[CV 4/5; 523/1980] START leaf_size=25, n_neighbors=28...
[CV 1/5; 525/1980] START leaf_size=25, n_neighbors=30...
[CV 4/5; 526/1980] START leaf_size=25, n_neighbors=31...
[CV 4/5; 505/1980] END leaf_size=25, n_neighbors=10;; score=0.597 total time=
0.0s
[CV 3/5; 519/1980] END leaf_size=25, n_neighbors=24;; score=0.564 total time=
0.0s
[CV 4/5; 519/1980] START leaf_size=25, n_neighbors=24...
[CV 2/5; 528/1980] START leaf_size=25, n_neighbors=33...
[CV 4/5; 520/1980] END leaf_size=25, n_neighbors=25;; score=0.587 total time=
0.0s
[CV 5/5; 520/1980] START leaf_size=25, n_neighbors=25...
[CV 5/5; 529/1980] START leaf_size=25, n_neighbors=34...
[CV 4/5; 511/1980] END leaf_size=25, n_neighbors=16;; score=0.584 total time=
0.1s
[CV 5/5; 511/1980] START leaf_size=25, n_neighbors=16...
[CV 2/5; 522/1980] END leaf_size=25, n_neighbors=27;; score=0.594 total time=
0.0s
[CV 3/5; 522/1980] START leaf_size=25, n_neighbors=27...
[CV 5/5; 517/1980] END leaf_size=25, n_neighbors=22;; score=0.628 total time=
0.0s
[CV 1/5; 518/1980] START leaf_size=25, n_neighbors=23...
[CV 4/5; 523/1980] END leaf_size=25, n_neighbors=28;; score=0.597 total time=
0.0s
[CV 5/5; 523/1980] START leaf_size=25, n_neighbors=28...
[CV 5/5; 520/1980] END leaf_size=25, n_neighbors=25;; score=0.647 total time=
0.0s
[CV 1/5; 521/1980] START leaf_size=25, n_neighbors=26...
[CV 4/5; 519/1980] END leaf_size=25, n_neighbors=24;; score=0.597 total time=
0.0s
[CV 5/5; 519/1980] START leaf_size=25, n_neighbors=24...
[CV 5/5; 529/1980] END leaf_size=25, n_neighbors=34;; score=0.634 total time=
0.0s
[CV 1/5; 530/1980] START leaf_size=25, n_neighbors=35...
[CV 3/5; 522/1980] END leaf_size=25, n_neighbors=27;; score=0.568 total time=
0.0s
[CV 4/5; 522/1980] START leaf_size=25, n_neighbors=27...
[CV 2/5; 528/1980] END leaf_size=25, n_neighbors=33;; score=0.607 total time=
0.0s
[CV 3/5; 528/1980] START leaf_size=25, n_neighbors=33...
[CV 1/5; 525/1980] END leaf_size=25, n_neighbors=30;; score=0.639 total time=
0.0s[CV 4/5; 526/1980] END leaf_size=25, n_neighbors=31;; score=0.595 total
time= 0.0s

[CV 5/5; 526/1980] START leaf_size=25, n_neighbors=31...

```



[CV 2/5; 525/1980] START leaf\_size=25, n\_neighbors=30...  
 [CV 5/5; 511/1980] END leaf\_size=25, n\_neighbors=16;; score=0.621 total time=0.0s  
 [CV 5/5; 519/1980] END leaf\_size=25, n\_neighbors=24;; score=0.647 total time= 0.0s  
 [CV 1/5; 520/1980] START leaf\_size=25, n\_neighbors=25...  
 [CV 1/5; 521/1980] END leaf\_size=25, n\_neighbors=26;; score=0.639 total time=0.0s  
 [CV 2/5; 521/1980] START leaf\_size=25, n\_neighbors=26...  
 [CV 5/5; 523/1980] END leaf\_size=25, n\_neighbors=28;; score=0.641 total time=0.0s  
 [CV 1/5; 524/1980] START leaf\_size=25, n\_neighbors=29...  
  
 [CV 1/5; 512/1980] START leaf\_size=25, n\_neighbors=17...  
 [CV 4/5; 522/1980] END leaf\_size=25, n\_neighbors=27;; score=0.593 total time=0.0s  
 [CV 5/5; 522/1980] START leaf\_size=25, n\_neighbors=27...  
 [CV 1/5; 530/1980] END leaf\_size=25, n\_neighbors=35;; score=0.650 total time=0.0s  
 [CV 2/5; 530/1980] START leaf\_size=25, n\_neighbors=35...  
 [CV 1/5; 518/1980] END leaf\_size=25, n\_neighbors=23;; score=0.646 total time=0.0s  
 [CV 2/5; 518/1980] START leaf\_size=25, n\_neighbors=23...  
 [CV 5/5; 526/1980] END leaf\_size=25, n\_neighbors=31;; score=0.634 total time=0.0s  
 [CV 1/5; 527/1980] START leaf\_size=25, n\_neighbors=32...  
 [CV 1/5; 520/1980] END leaf\_size=25, n\_neighbors=25;; score=0.646 total time=0.0s  
 [CV 2/5; 521/1980] END leaf\_size=25, n\_neighbors=26;; score=0.600 total time=0.0s  
 [CV 3/5; 521/1980] START leaf\_size=25, n\_neighbors=26...  
 [CV 3/5; 531/1980] START leaf\_size=25, n\_neighbors=36...  
 [CV 3/5; 528/1980] END leaf\_size=25, n\_neighbors=33;; score=0.570 total time=0.0s  
 [CV 4/5; 528/1980] START leaf\_size=25, n\_neighbors=33...  
 [CV 5/5; 522/1980] END leaf\_size=25, n\_neighbors=27;; score=0.630 total time=0.0s  
 [CV 1/5; 523/1980] START leaf\_size=25, n\_neighbors=28...  
 [CV 2/5; 530/1980] END leaf\_size=25, n\_neighbors=35;; score=0.607 total time=0.0s  
 [CV 3/5; 530/1980] START leaf\_size=25, n\_neighbors=35...  
 [CV 2/5; 518/1980] END leaf\_size=25, n\_neighbors=23;; score=0.583 total time=0.0s  
 [CV 3/5; 518/1980] START leaf\_size=25, n\_neighbors=23...  
 [CV 1/5; 524/1980] END leaf\_size=25, n\_neighbors=29;; score=0.646 total time=0.0s  
 [CV 2/5; 524/1980] START leaf\_size=25, n\_neighbors=29...  
 [CV 1/5; 512/1980] END leaf\_size=25, n\_neighbors=17;; score=0.631 total time=0.0s

[CV 1/5; 533/1980] START leaf\_size=25, n\_neighbors=38...  
 [CV 1/5; 527/1980] END leaf\_size=25, n\_neighbors=32;; score=0.639 total time=0.0s  
 [CV 2/5; 527/1980] START leaf\_size=25, n\_neighbors=32...  
 [CV 2/5; 525/1980] END leaf\_size=25, n\_neighbors=30;; score=0.607 total time=0.1s  
 [CV 3/5; 525/1980] START leaf\_size=25, n\_neighbors=30...  
 [CV 1/5; 523/1980] END leaf\_size=25, n\_neighbors=28;; score=0.650 total time=0.0s  
 [CV 2/5; 523/1980] START leaf\_size=25, n\_neighbors=28...  
 [CV 3/5; 531/1980] END leaf\_size=25, n\_neighbors=36;; score=0.566 total time=0.0s  
 [CV 4/5; 531/1980] START leaf\_size=25, n\_neighbors=36...  
 [CV 3/5; 530/1980] END leaf\_size=25, n\_neighbors=35;; score=0.572 total time=0.0s  
 [CV 4/5; 530/1980] START leaf\_size=25, n\_neighbors=35...  
 [CV 3/5; 518/1980] END leaf\_size=25, n\_neighbors=23;; score=0.557 total time=0.0s  
 [CV 4/5; 534/1980] START leaf\_size=25, n\_neighbors=39...  
 [CV 2/5; 524/1980] END leaf\_size=25, n\_neighbors=29;; score=0.600 total time=0.0s  
 [CV 3/5; 524/1980] START leaf\_size=25, n\_neighbors=29...  
 [CV 1/5; 533/1980] END leaf\_size=25, n\_neighbors=38;; score=0.652 total time=0.0s  
 [CV 2/5; 533/1980] START leaf\_size=25, n\_neighbors=38...  
 [CV 4/5; 528/1980] END leaf\_size=25, n\_neighbors=33;; score=0.597 total time=0.0s  
 [CV 5/5; 528/1980] START leaf\_size=25, n\_neighbors=33...  
 [CV 3/5; 521/1980] END leaf\_size=25, n\_neighbors=26;; score=0.564 total time=0.1s  
 [CV 4/5; 521/1980] START leaf\_size=25, n\_neighbors=26...  
 [CV 2/5; 523/1980] END leaf\_size=25, n\_neighbors=28;; score=0.598 total time=0.0s  
 [CV 3/5; 525/1980] END leaf\_size=25, n\_neighbors=30;; score=0.579 total time=0.0s  
 [CV 4/5; 525/1980] START leaf\_size=25, n\_neighbors=30...  
 [CV 2/5; 536/1980] START leaf\_size=25, n\_neighbors=41...  
 [CV 4/5; 531/1980] END leaf\_size=25, n\_neighbors=36;; score=0.600 total time=0.0s  
 [CV 5/5; 531/1980] START leaf\_size=25, n\_neighbors=36...  
 [CV 4/5; 530/1980] END leaf\_size=25, n\_neighbors=35;; score=0.604 total time=0.0s  
 [CV 5/5; 530/1980] START leaf\_size=25, n\_neighbors=35...  
 [CV 3/5; 524/1980] END leaf\_size=25, n\_neighbors=29;; score=0.577 total time=0.0s  
 [CV 4/5; 524/1980] START leaf\_size=25, n\_neighbors=29...  
 [CV 4/5; 534/1980] END leaf\_size=25, n\_neighbors=39;; score=0.602 total time=0.0s

[CV 5/5; 534/1980] START leaf\_size=25, n\_neighbors=39...  
 [CV 2/5; 533/1980] END leaf\_size=25, n\_neighbors=38;; score=0.613 total time=0.0s  
 [CV 3/5; 533/1980] START leaf\_size=25, n\_neighbors=38...  
 [CV 4/5; 525/1980] END leaf\_size=25, n\_neighbors=30;; score=0.595 total time=0.0s  
 [CV 5/5; 525/1980] START leaf\_size=25, n\_neighbors=30...  
 [CV 2/5; 536/1980] END leaf\_size=25, n\_neighbors=41;; score=0.618 total time=0.0s  
 [CV 3/5; 536/1980] START leaf\_size=25, n\_neighbors=41...  
 [CV 2/5; 527/1980] END leaf\_size=25, n\_neighbors=32;; score=0.605 total time=0.1s  
 [CV 3/5; 527/1980] START leaf\_size=25, n\_neighbors=32...  
 [CV 5/5; 531/1980] END leaf\_size=25, n\_neighbors=36;; score=0.628 total time=0.0s  
 [CV 1/5; 532/1980] START leaf\_size=25, n\_neighbors=37...  
 [CV 4/5; 524/1980] END leaf\_size=25, n\_neighbors=29;; score=0.600 total time=0.0s  
 [CV 5/5; 524/1980] START leaf\_size=25, n\_neighbors=29...  
 [CV 5/5; 530/1980] END leaf\_size=25, n\_neighbors=35;; score=0.639 total time=0.0s  
 [CV 1/5; 531/1980] START leaf\_size=25, n\_neighbors=36...  
 [CV 5/5; 534/1980] END leaf\_size=25, n\_neighbors=39;; score=0.636 total time=0.0s  
 [CV 1/5; 535/1980] START leaf\_size=25, n\_neighbors=40...  
 [CV 3/5; 533/1980] END leaf\_size=25, n\_neighbors=38;; score=0.566 total time=0.0s  
 [CV 4/5; 533/1980] START leaf\_size=25, n\_neighbors=38...  
 [CV 5/5; 525/1980] END leaf\_size=25, n\_neighbors=30;; score=0.632 total time=0.0s  
 [CV 1/5; 526/1980] START leaf\_size=25, n\_neighbors=31...  
 [CV 3/5; 536/1980] END leaf\_size=25, n\_neighbors=41;; score=0.568 total time=0.0s  
 [CV 4/5; 536/1980] START leaf\_size=25, n\_neighbors=41...  
 [CV 5/5; 528/1980] END leaf\_size=25, n\_neighbors=33;; score=0.630 total time=0.1s  
 [CV 1/5; 532/1980] END leaf\_size=25, n\_neighbors=37;; score=0.657 total time=0.0s  
 [CV 2/5; 532/1980] START leaf\_size=25, n\_neighbors=37...  
  
 [CV 1/5; 529/1980] START leaf\_size=25, n\_neighbors=34...  
 [CV 3/5; 527/1980] END leaf\_size=25, n\_neighbors=32;; score=0.577 total time=0.0s  
 [CV 4/5; 527/1980] START leaf\_size=25, n\_neighbors=32...  
 [CV 1/5; 531/1980] END leaf\_size=25, n\_neighbors=36;; score=0.644 total time=0.0s  
 [CV 2/5; 531/1980] START leaf\_size=25, n\_neighbors=36...  
 [CV 4/5; 521/1980] END leaf\_size=25, n\_neighbors=26;; score=0.593 total time=0.1s

[CV 5/5; 524/1980] END leaf\_size=25, n\_neighbors=29;; score=0.639 total time=0.0s  
 [CV 5/5; 537/1980] START leaf\_size=25, n\_neighbors=42...  
 [CV 3/5; 539/1980] START leaf\_size=25, n\_neighbors=44...  
 [CV 1/5; 535/1980] END leaf\_size=25, n\_neighbors=40;; score=0.661 total time=0.0s  
 [CV 2/5; 535/1980] START leaf\_size=25, n\_neighbors=40...  
 [CV 4/5; 533/1980] END leaf\_size=25, n\_neighbors=38;; score=0.602 total time=0.0s  
 [CV 5/5; 533/1980] START leaf\_size=25, n\_neighbors=38...  
 [CV 1/5; 526/1980] END leaf\_size=25, n\_neighbors=31;; score=0.644 total time=0.0s  
 [CV 2/5; 526/1980] START leaf\_size=25, n\_neighbors=31...  
 [CV 4/5; 536/1980] END leaf\_size=25, n\_neighbors=41;; score=0.610 total time=0.0s  
 [CV 5/5; 536/1980] START leaf\_size=25, n\_neighbors=41...  
 [CV 2/5; 532/1980] END leaf\_size=25, n\_neighbors=37;; score=0.607 total time=0.0s  
 [CV 3/5; 532/1980] START leaf\_size=25, n\_neighbors=37...  
 [CV 4/5; 527/1980] END leaf\_size=25, n\_neighbors=32;; score=0.593 total time=0.0s  
 [CV 5/5; 527/1980] START leaf\_size=25, n\_neighbors=32...  
 [CV 2/5; 531/1980] END leaf\_size=25, n\_neighbors=36;; score=0.616 total time=0.0s  
 [CV 1/5; 541/1980] START leaf\_size=25, n\_neighbors=46...  
 [CV 2/5; 535/1980] END leaf\_size=25, n\_neighbors=40;; score=0.611 total time=0.0s  
 [CV 3/5; 535/1980] START leaf\_size=25, n\_neighbors=40...  
 [CV 5/5; 533/1980] END leaf\_size=25, n\_neighbors=38;; score=0.634 total time=0.0s  
 [CV 1/5; 534/1980] START leaf\_size=25, n\_neighbors=39...  
 [CV 1/5; 529/1980] END leaf\_size=25, n\_neighbors=34;; score=0.644 total time=0.0s  
 [CV 2/5; 529/1980] START leaf\_size=25, n\_neighbors=34...  
 [CV 5/5; 536/1980] END leaf\_size=25, n\_neighbors=41;; score=0.619 total time=0.0s  
 [CV 1/5; 537/1980] START leaf\_size=25, n\_neighbors=42...  
 [CV 2/5; 526/1980] END leaf\_size=25, n\_neighbors=31;; score=0.603 total time=0.0s  
 [CV 3/5; 526/1980] START leaf\_size=25, n\_neighbors=31...  
 [CV 3/5; 539/1980] END leaf\_size=25, n\_neighbors=44;; score=0.570 total time=0.0s  
 [CV 4/5; 539/1980] START leaf\_size=25, n\_neighbors=44...  
 [CV 3/5; 532/1980] END leaf\_size=25, n\_neighbors=37;; score=0.568 total time=0.0s  
 [CV 4/5; 532/1980] START leaf\_size=25, n\_neighbors=37...  
 [CV 5/5; 537/1980] END leaf\_size=25, n\_neighbors=42;; score=0.621 total time=0.0s

[CV 1/5; 538/1980] START leaf\_size=25, n\_neighbors=43...  
 [CV 5/5; 527/1980] END leaf\_size=25, n\_neighbors=32;; score=0.628 total time=0.0s  
 [CV 1/5; 528/1980] START leaf\_size=25, n\_neighbors=33...  
 [CV 1/5; 541/1980] END leaf\_size=25, n\_neighbors=46;; score=0.672 total time=0.0s  
 [CV 2/5; 541/1980] START leaf\_size=25, n\_neighbors=46...  
 [CV 3/5; 535/1980] END leaf\_size=25, n\_neighbors=40;; score=0.572 total time=0.0s  
 [CV 4/5; 535/1980] START leaf\_size=25, n\_neighbors=40...  
 [CV 1/5; 534/1980] END leaf\_size=25, n\_neighbors=39;; score=0.654 total time=0.0s  
 [CV 2/5; 534/1980] START leaf\_size=25, n\_neighbors=39...  
 [CV 3/5; 526/1980] END leaf\_size=25, n\_neighbors=31;; score=0.570 total time=0.0s  
 [CV 1/5; 537/1980] END leaf\_size=25, n\_neighbors=42;; score=0.667 total time=0.0s  
 [CV 2/5; 537/1980] START leaf\_size=25, n\_neighbors=42...  
  
 [CV 4/5; 532/1980] END leaf\_size=25, n\_neighbors=37;; score=0.610 total time=0.0s  
 [CV 5/5; 532/1980] START leaf\_size=25, n\_neighbors=37...  
 [CV 4/5; 542/1980] START leaf\_size=25, n\_neighbors=47...  
 [CV 2/5; 529/1980] END leaf\_size=25, n\_neighbors=34;; score=0.600 total time=0.0s  
 [CV 3/5; 529/1980] START leaf\_size=25, n\_neighbors=34...  
 [CV 1/5; 528/1980] END leaf\_size=25, n\_neighbors=33;; score=0.646 total time=0.0s  
 [CV 2/5; 544/1980] START leaf\_size=25, n\_neighbors=49...  
 [CV 1/5; 538/1980] END leaf\_size=25, n\_neighbors=43;; score=0.674 total time=0.0s  
 [CV 2/5; 538/1980] START leaf\_size=25, n\_neighbors=43...  
 [CV 4/5; 539/1980] END leaf\_size=25, n\_neighbors=44;; score=0.597 total time=0.0s  
 [CV 5/5; 539/1980] START leaf\_size=25, n\_neighbors=44...  
 [CV 2/5; 541/1980] END leaf\_size=25, n\_neighbors=46;; score=0.616 total time=0.0s  
 [CV 3/5; 541/1980] START leaf\_size=25, n\_neighbors=46...  
 [CV 5/5; 532/1980] END leaf\_size=25, n\_neighbors=37;; score=0.628 total time=0.0s  
 [CV 2/5; 537/1980] END leaf\_size=25, n\_neighbors=42;; score=0.618 total time=0.0s  
 [CV 3/5; 537/1980] START leaf\_size=25, n\_neighbors=42...  
 [CV 4/5; 535/1980] END leaf\_size=25, n\_neighbors=40;; score=0.595 total time=0.0s  
 [CV 5/5; 535/1980] START leaf\_size=25, n\_neighbors=40...  
 [CV 2/5; 534/1980] END leaf\_size=25, n\_neighbors=39;; score=0.609 total time=0.0s  
 [CV 3/5; 534/1980] START leaf\_size=25, n\_neighbors=39...

[CV 5/5; 545/1980] START leaf\_size=25, n\_neighbors=50...  
 [CV 4/5; 542/1980] END leaf\_size=25, n\_neighbors=47;; score=0.589 total time=0.0s  
 [CV 5/5; 542/1980] START leaf\_size=25, n\_neighbors=47...  
 [CV 2/5; 544/1980] END leaf\_size=25, n\_neighbors=49;; score=0.622 total time=0.0s  
 [CV 3/5; 544/1980] START leaf\_size=25, n\_neighbors=49...  
 [CV 3/5; 529/1980] END leaf\_size=25, n\_neighbors=34;; score=0.577 total time=0.0s  
 [CV 4/5; 529/1980] START leaf\_size=25, n\_neighbors=34...  
 [CV 2/5; 538/1980] END leaf\_size=25, n\_neighbors=43;; score=0.616 total time=0.0s  
 [CV 3/5; 538/1980] START leaf\_size=25, n\_neighbors=43...  
 [CV 3/5; 541/1980] END leaf\_size=25, n\_neighbors=46;; score=0.572 total time=0.0s  
 [CV 4/5; 541/1980] START leaf\_size=25, n\_neighbors=46...  
 [CV 5/5; 539/1980] END leaf\_size=25, n\_neighbors=44;; score=0.615 total time=0.0s  
 [CV 1/5; 540/1980] START leaf\_size=25, n\_neighbors=45...  
 [CV 3/5; 537/1980] END leaf\_size=25, n\_neighbors=42;; score=0.564 total time=0.0s  
 [CV 4/5; 537/1980] START leaf\_size=25, n\_neighbors=42...  
 [CV 5/5; 545/1980] END leaf\_size=25, n\_neighbors=50;; score=0.619 total time=0.0s  
 [CV 1/5; 546/1980] START leaf\_size=25, n\_neighbors=51...  
 [CV 3/5; 534/1980] END leaf\_size=25, n\_neighbors=39;; score=0.575 total time=0.0s  
 [CV 3/5; 547/1980] START leaf\_size=25, n\_neighbors=52...  
 [CV 5/5; 535/1980] END leaf\_size=25, n\_neighbors=40;; score=0.617 total time=0.0s  
 [CV 1/5; 536/1980] START leaf\_size=25, n\_neighbors=41...  
 [CV 3/5; 544/1980] END leaf\_size=25, n\_neighbors=49;; score=0.568 total time=0.0s  
 [CV 4/5; 544/1980] START leaf\_size=25, n\_neighbors=49...  
 [CV 5/5; 542/1980] END leaf\_size=25, n\_neighbors=47;; score=0.623 total time=0.0s  
 [CV 1/5; 543/1980] START leaf\_size=25, n\_neighbors=48...  
 [CV 4/5; 541/1980] END leaf\_size=25, n\_neighbors=46;; score=0.597 total time=0.0s  
 [CV 5/5; 541/1980] START leaf\_size=25, n\_neighbors=46...  
 [CV 3/5; 538/1980] END leaf\_size=25, n\_neighbors=43;; score=0.566 total time=0.0s  
 [CV 4/5; 538/1980] START leaf\_size=25, n\_neighbors=43...  
 [CV 4/5; 529/1980] END leaf\_size=25, n\_neighbors=34;; score=0.597 total time=0.0s  
 [CV 1/5; 549/1980] START leaf\_size=25, n\_neighbors=54...  
 [CV 4/5; 537/1980] END leaf\_size=25, n\_neighbors=42;; score=0.608 total time=0.0s

[CV 4/5; 550/1980] START leaf\_size=25, n\_neighbors=55...  
 [CV 1/5; 540/1980] END leaf\_size=25, n\_neighbors=45;; score=0.678 total time=0.0s  
 [CV 2/5; 540/1980] START leaf\_size=25, n\_neighbors=45...  
 [CV 3/5; 547/1980] END leaf\_size=25, n\_neighbors=52;; score=0.566 total time=0.0s  
 [CV 4/5; 547/1980] START leaf\_size=25, n\_neighbors=52...  
 [CV 1/5; 546/1980] END leaf\_size=25, n\_neighbors=51;; score=0.680 total time=0.0s  
 [CV 2/5; 546/1980] START leaf\_size=25, n\_neighbors=51...  
 [CV 4/5; 544/1980] END leaf\_size=25, n\_neighbors=49;; score=0.593 total time=0.0s  
 [CV 5/5; 544/1980] START leaf\_size=25, n\_neighbors=49...  
 [CV 1/5; 536/1980] END leaf\_size=25, n\_neighbors=41;; score=0.665 total time=0.0s  
 [CV 5/5; 541/1980] END leaf\_size=25, n\_neighbors=46;; score=0.619 total time=0.0s  
 [CV 1/5; 542/1980] START leaf\_size=25, n\_neighbors=47...  
 [CV 2/5; 552/1980] START leaf\_size=25, n\_neighbors=57...  
 [CV 1/5; 543/1980] END leaf\_size=25, n\_neighbors=48;; score=0.672 total time=0.0s  
 [CV 4/5; 538/1980] END leaf\_size=25, n\_neighbors=43;; score=0.600 total time=0.0s  
 [CV 5/5; 538/1980] START leaf\_size=25,  
 n\_neighbors=43...[CV 2/5; 543/1980] START leaf\_size=25,  
 n\_neighbors=48...  
  
 [CV 4/5; 550/1980] END leaf\_size=25, n\_neighbors=55;; score=0.593 total time=0.0s  
 [CV 5/5; 550/1980] START leaf\_size=25, n\_neighbors=55...  
 [CV 1/5; 549/1980] END leaf\_size=25, n\_neighbors=54;; score=0.667 total time=0.0s  
 [CV 2/5; 549/1980] START leaf\_size=25, n\_neighbors=54...  
 [CV 4/5; 547/1980] END leaf\_size=25, n\_neighbors=52;; score=0.597 total time=0.0s  
 [CV 5/5; 547/1980] START leaf\_size=25, n\_neighbors=52...  
 [CV 2/5; 546/1980] END leaf\_size=25, n\_neighbors=51;; score=0.618 total time=0.0s  
 [CV 3/5; 546/1980] START leaf\_size=25, n\_neighbors=51...  
 [CV 2/5; 540/1980] END leaf\_size=25, n\_neighbors=45;; score=0.611 total time=0.0s  
 [CV 3/5; 540/1980] START leaf\_size=25, n\_neighbors=45...  
 [CV 5/5; 544/1980] END leaf\_size=25, n\_neighbors=49;; score=0.623 total time=0.0s  
 [CV 1/5; 545/1980] START leaf\_size=25, n\_neighbors=50...  
 [CV 1/5; 542/1980] END leaf\_size=25, n\_neighbors=47;; score=0.676 total time=0.0s  
 [CV 2/5; 542/1980] START leaf\_size=25, n\_neighbors=47...

[CV 5/5; 538/1980] END leaf\_size=25, n\_neighbors=43;; score=0.615 total time=0.0s  
 [CV 2/5; 552/1980] END leaf\_size=25, n\_neighbors=57;; score=0.616 total time=0.0s  
 [CV 1/5; 539/1980] START leaf\_size=25, n\_neighbors=44...  
 [CV 3/5; 552/1980] START leaf\_size=25, n\_neighbors=57...  
 [CV 2/5; 543/1980] END leaf\_size=25, n\_neighbors=48;; score=0.609 total time=0.0s  
 [CV 3/5; 543/1980] START leaf\_size=25, n\_neighbors=48...  
 [CV 5/5; 550/1980] END leaf\_size=25, n\_neighbors=55;; score=0.608 total time=0.0s  
 [CV 1/5; 551/1980] START leaf\_size=25, n\_neighbors=56...  
 [CV 3/5; 546/1980] END leaf\_size=25, n\_neighbors=51;; score=0.566 total time=0.0s  
 [CV 4/5; 546/1980] START leaf\_size=25, n\_neighbors=51...  
 [CV 5/5; 547/1980] END leaf\_size=25, n\_neighbors=52;; score=0.619 total time=0.0s  
 [CV 1/5; 548/1980] START leaf\_size=25, n\_neighbors=53...  
 [CV 1/5; 545/1980] END leaf\_size=25, n\_neighbors=50;; score=0.678 total time=0.0s  
 [CV 2/5; 545/1980] START leaf\_size=25, n\_neighbors=50...  
 [CV 2/5; 549/1980] END leaf\_size=25, n\_neighbors=54;; score=0.618 total time=0.0s  
 [CV 3/5; 549/1980] START leaf\_size=25, n\_neighbors=54...  
 [CV 3/5; 540/1980] END leaf\_size=25, n\_neighbors=45;; score=0.575 total time=0.0s  
 [CV 4/5; 540/1980] START leaf\_size=25, n\_neighbors=45...  
 [CV 2/5; 542/1980] END leaf\_size=25, n\_neighbors=47;; score=0.611 total time=0.0s  
 [CV 3/5; 542/1980] START leaf\_size=25, n\_neighbors=47...  
 [CV 3/5; 552/1980] END leaf\_size=25, n\_neighbors=57;; score=0.559 total time=0.0s  
 [CV 4/5; 552/1980] START leaf\_size=25, n\_neighbors=57...  
 [CV 3/5; 543/1980] END leaf\_size=25, n\_neighbors=48;; score=0.562 total time=0.0s  
 [CV 1/5; 539/1980] END leaf\_size=25, n\_neighbors=44;; score=0.667 total time=0.0s  
 [CV 4/5; 543/1980] START leaf\_size=25, n\_neighbors=48...  
  
 [CV 2/5; 539/1980] START leaf\_size=25, n\_neighbors=44...  
 [CV 1/5; 551/1980] END leaf\_size=25, n\_neighbors=56;; score=0.670 total time=0.0s  
 [CV 2/5; 551/1980] START leaf\_size=25, n\_neighbors=56...  
 [CV 4/5; 546/1980] END leaf\_size=25, n\_neighbors=51;; score=0.602 total time=0.0s  
 [CV 5/5; 546/1980] START leaf\_size=25, n\_neighbors=51...  
 [CV 1/5; 548/1980] END leaf\_size=25, n\_neighbors=53;; score=0.678 total time=0.0s



[CV 2/5; 548/1980] START leaf\_size=25, n\_neighbors=53...  
 [CV 2/5; 545/1980] END leaf\_size=25, n\_neighbors=50;; score=0.603 total time=0.0s  
 [CV 3/5; 545/1980] START leaf\_size=25, n\_neighbors=50...  
 [CV 3/5; 549/1980] END leaf\_size=25, n\_neighbors=54;; score=0.562 total time=0.0s  
 [CV 4/5; 549/1980] START leaf\_size=25, n\_neighbors=54...  
 [CV 3/5; 542/1980] END leaf\_size=25, n\_neighbors=47;; score=0.572 total time=0.0s  
 [CV 4/5; 540/1980] END leaf\_size=25, n\_neighbors=45;; score=0.600 total time=0.0s  
 [CV 5/5; 540/1980] START leaf\_size=25, n\_neighbors=45...  
 [CV 5/5; 553/1980] START leaf\_size=25, n\_neighbors=58...  
 [CV 4/5; 552/1980] END leaf\_size=25, n\_neighbors=57;; score=0.597 total time=0.0s  
 [CV 5/5; 552/1980] START leaf\_size=25, n\_neighbors=57...  
 [CV 2/5; 539/1980] END leaf\_size=25, n\_neighbors=44;; score=0.613 total time=0.0s  
 [CV 2/5; 551/1980] END leaf\_size=25, n\_neighbors=56;; score=0.609 total time=0.0s  
 [CV 3/5; 551/1980] START leaf\_size=25, n\_neighbors=56...  
 [CV 3/5; 555/1980] START leaf\_size=25, n\_neighbors=60...  
 [CV 5/5; 546/1980] END leaf\_size=25, n\_neighbors=51;; score=0.621 total time=0.0s  
 [CV 1/5; 547/1980] START leaf\_size=25, n\_neighbors=52...  
 [CV 3/5; 545/1980] END leaf\_size=25, n\_neighbors=50;; score=0.557 total time=0.0s  
 [CV 4/5; 545/1980] START leaf\_size=25, n\_neighbors=50...  
 [CV 2/5; 548/1980] END leaf\_size=25, n\_neighbors=53;; score=0.611 total time=0.0s  
 [CV 3/5; 548/1980] START leaf\_size=25, n\_neighbors=53...  
 [CV 4/5; 549/1980] END leaf\_size=25, n\_neighbors=54;; score=0.595 total time=0.0s  
 [CV 5/5; 549/1980] START leaf\_size=25, n\_neighbors=54...  
 [CV 5/5; 553/1980] END leaf\_size=25, n\_neighbors=58;; score=0.610 total time=0.0s  
 [CV 1/5; 554/1980] START leaf\_size=25, n\_neighbors=59...  
 [CV 4/5; 543/1980] END leaf\_size=25, n\_neighbors=48;; score=0.589 total time=0.1s  
 [CV 5/5; 543/1980] START leaf\_size=25, n\_neighbors=48...  
 [CV 5/5; 540/1980] END leaf\_size=25, n\_neighbors=45;; score=0.619 total time=0.0s  
 [CV 5/5; 552/1980] END leaf\_size=25, n\_neighbors=57;; score=0.610 total time=0.0s  
 [CV 1/5; 553/1980] START leaf\_size=25, n\_neighbors=58...  
 [CV 3/5; 551/1980] END leaf\_size=25, n\_neighbors=56;; score=0.551 total time=0.0s  
 [CV 4/5; 551/1980] START leaf\_size=25, n\_neighbors=56...

[CV 1/5; 557/1980] START leaf\_size=25, n\_neighbors=62...  
 [CV 1/5; 547/1980] END leaf\_size=25, n\_neighbors=52;; score=0.676 total time=0.0s  
 [CV 2/5; 547/1980] START leaf\_size=25, n\_neighbors=52...  
 [CV 3/5; 555/1980] END leaf\_size=25, n\_neighbors=60;; score=0.553 total time=0.0s  
 [CV 4/5; 555/1980] START leaf\_size=25, n\_neighbors=60...  
 [CV 3/5; 548/1980] END leaf\_size=25, n\_neighbors=53;; score=0.572 total time=0.0s  
 [CV 4/5; 548/1980] START leaf\_size=25, n\_neighbors=53...  
 [CV 4/5; 545/1980] END leaf\_size=25, n\_neighbors=50;; score=0.597 total time=0.0s  
 [CV 4/5; 558/1980] START leaf\_size=25, n\_neighbors=63...  
 [CV 1/5; 554/1980] END leaf\_size=25, n\_neighbors=59;; score=0.670 total time=0.0s  
 [CV 2/5; 554/1980] START leaf\_size=25, n\_neighbors=59...  
 [CV 5/5; 549/1980] END leaf\_size=25, n\_neighbors=54;; score=0.608 total time=0.0s  
 [CV 1/5; 550/1980] START leaf\_size=25, n\_neighbors=55...  
 [CV 5/5; 543/1980] END leaf\_size=25, n\_neighbors=48;; score=0.630 total time=0.0s  
 [CV 1/5; 544/1980] START leaf\_size=25, n\_neighbors=49...  
 [CV 4/5; 551/1980] END leaf\_size=25, n\_neighbors=56;; score=0.591 total time=0.0s  
 [CV 5/5; 551/1980] START leaf\_size=25, n\_neighbors=56...  
 [CV 1/5; 553/1980] END leaf\_size=25, n\_neighbors=58;; score=0.665 total time=0.0s  
 [CV 2/5; 553/1980] START leaf\_size=25, n\_neighbors=58...  
 [CV 2/5; 547/1980] END leaf\_size=25, n\_neighbors=52;; score=0.611 total time=0.0s  
 [CV 2/5; 560/1980] START leaf\_size=25, n\_neighbors=65...  
 [CV 4/5; 548/1980] END leaf\_size=25, n\_neighbors=53;; score=0.600 total time=0.0s  
 [CV 5/5; 548/1980] START leaf\_size=25, n\_neighbors=53...  
 [CV 4/5; 558/1980] END leaf\_size=25, n\_neighbors=63;; score=0.604 total time=0.0s  
 [CV 5/5; 558/1980] START leaf\_size=25, n\_neighbors=63...  
 [CV 1/5; 557/1980] END leaf\_size=25, n\_neighbors=62;; score=0.663 total time=0.0s  
 [CV 2/5; 557/1980] START leaf\_size=25, n\_neighbors=62...  
 [CV 2/5; 554/1980] END leaf\_size=25, n\_neighbors=59;; score=0.609 total time=0.0s  
 [CV 3/5; 554/1980] START leaf\_size=25, n\_neighbors=59...  
 [CV 4/5; 555/1980] END leaf\_size=25, n\_neighbors=60;; score=0.602 total time=0.0s  
 [CV 5/5; 555/1980] START leaf\_size=25, n\_neighbors=60...  
 [CV 1/5; 544/1980] END leaf\_size=25, n\_neighbors=49;; score=0.676 total time=0.0s

[CV 1/5; 550/1980] END leaf\_size=25, n\_neighbors=55;;, score=0.667 total time=0.0s  
[CV 2/5; 550/1980] START leaf\_size=25, n\_neighbors=55...[CV 5/5; 561/1980] START leaf\_size=25, n\_neighbors=66...

[CV 5/5; 551/1980] END leaf\_size=25, n\_neighbors=56;;, score=0.613 total time=0.0s  
[CV 1/5; 552/1980] START leaf\_size=25, n\_neighbors=57...  
[CV 5/5; 548/1980] END leaf\_size=25, n\_neighbors=53;;, score=0.613 total time=0.0s[CV 2/5; 560/1980] END leaf\_size=25, n\_neighbors=65;;, score=0.616 total time= 0.0s

[CV 3/5; 560/1980] START leaf\_size=25, n\_neighbors=65...  
[CV 3/5; 563/1980] START leaf\_size=25, n\_neighbors=68...  
[CV 5/5; 558/1980] END leaf\_size=25, n\_neighbors=63;;, score=0.615 total time=0.0s  
[CV 1/5; 559/1980] START leaf\_size=25, n\_neighbors=64...  
[CV 3/5; 554/1980] END leaf\_size=25, n\_neighbors=59;;, score=0.553 total time=0.0s  
[CV 4/5; 554/1980] START leaf\_size=25, n\_neighbors=59...  
[CV 2/5; 553/1980] END leaf\_size=25, n\_neighbors=58;;, score=0.609 total time=0.1s  
[CV 3/5; 553/1980] START leaf\_size=25, n\_neighbors=58...  
[CV 2/5; 557/1980] END leaf\_size=25, n\_neighbors=62;;, score=0.603 total time=0.0s  
[CV 3/5; 557/1980] START leaf\_size=25, n\_neighbors=62...  
[CV 5/5; 561/1980] END leaf\_size=25, n\_neighbors=66;;, score=0.613 total time=0.0s  
[CV 1/5; 562/1980] START leaf\_size=25, n\_neighbors=67...  
[CV 1/5; 552/1980] END leaf\_size=25, n\_neighbors=57;;, score=0.665 total time=0.0s  
[CV 1/5; 565/1980] START leaf\_size=25, n\_neighbors=70...  
[CV 2/5; 550/1980] END leaf\_size=25, n\_neighbors=55;;, score=0.618 total time=0.0s  
[CV 3/5; 550/1980] START leaf\_size=25, n\_neighbors=55...  
[CV 5/5; 555/1980] END leaf\_size=25, n\_neighbors=60;;, score=0.604 total time=0.0s  
[CV 1/5; 556/1980] START leaf\_size=25, n\_neighbors=61...  
[CV 3/5; 560/1980] END leaf\_size=25, n\_neighbors=65;;, score=0.566 total time=0.0s  
[CV 4/5; 560/1980] START leaf\_size=25, n\_neighbors=65...  
[CV 3/5; 563/1980] END leaf\_size=25, n\_neighbors=68;;, score=0.566 total time=0.0s  
[CV 4/5; 563/1980] START leaf\_size=25, n\_neighbors=68...  
[CV 1/5; 559/1980] END leaf\_size=25, n\_neighbors=64;;, score=0.663 total time=0.0s  
[CV 2/5; 559/1980] START leaf\_size=25, n\_neighbors=64...

[CV 4/5; 554/1980] END leaf\_size=25, n\_neighbors=59;; score=0.604 total time=0.0s  
 [CV 5/5; 554/1980] START leaf\_size=25, n\_neighbors=59...  
 [CV 1/5; 562/1980] END leaf\_size=25, n\_neighbors=67;; score=0.663 total time=0.0s  
 [CV 2/5; 562/1980] START leaf\_size=25, n\_neighbors=67...  
 [CV 3/5; 553/1980] END leaf\_size=25, n\_neighbors=58;; score=0.549 total time=0.0s  
 [CV 4/5; 553/1980] START leaf\_size=25, n\_neighbors=58...  
 [CV 1/5; 565/1980] END leaf\_size=25, n\_neighbors=70;; score=0.663 total time=0.0s  
 [CV 2/5; 565/1980] START leaf\_size=25, n\_neighbors=70...  
 [CV 3/5; 557/1980] END leaf\_size=25, n\_neighbors=62;; score=0.555 total time=0.0s  
 [CV 4/5; 557/1980] START leaf\_size=25, n\_neighbors=62...  
 [CV 3/5; 550/1980] END leaf\_size=25, n\_neighbors=55;; score=0.564 total time=0.0s  
 [CV 4/5; 566/1980] START leaf\_size=25, n\_neighbors=71...  
 [CV 4/5; 560/1980] END leaf\_size=25, n\_neighbors=65;; score=0.591 total time=0.0s  
 [CV 5/5; 560/1980] START leaf\_size=25, n\_neighbors=65...  
 [CV 4/5; 563/1980] END leaf\_size=25, n\_neighbors=68;; score=0.576 total time=0.0s  
 [CV 5/5; 563/1980] START leaf\_size=25, n\_neighbors=68...  
 [CV 2/5; 559/1980] END leaf\_size=25, n\_neighbors=64;; score=0.609 total time=0.0s  
 [CV 3/5; 559/1980] START leaf\_size=25, n\_neighbors=64...  
 [CV 1/5; 556/1980] END leaf\_size=25, n\_neighbors=61;; score=0.665 total time=0.0s  
 [CV 2/5; 556/1980] START leaf\_size=25, n\_neighbors=61...  
 [CV 5/5; 554/1980] END leaf\_size=25, n\_neighbors=59;; score=0.610 total time=0.0s  
 [CV 1/5; 555/1980] START leaf\_size=25, n\_neighbors=60...  
 [CV 2/5; 562/1980] END leaf\_size=25, n\_neighbors=67;; score=0.611 total time=0.0s  
 [CV 3/5; 562/1980] START leaf\_size=25, n\_neighbors=67...  
 [CV 4/5; 553/1980] END leaf\_size=25, n\_neighbors=58;; score=0.595 total time=0.0s  
 [CV 2/5; 565/1980] END leaf\_size=25, n\_neighbors=70;; score=0.607 total time=0.0s  
 [CV 3/5; 565/1980] START leaf\_size=25, n\_neighbors=70...  
 [CV 2/5; 568/1980] START leaf\_size=25, n\_neighbors=73...  
 [CV 5/5; 563/1980] END leaf\_size=25, n\_neighbors=68;; score=0.615 total time=0.0s  
 [CV 1/5; 564/1980] START leaf\_size=25, n\_neighbors=69...  
 [CV 5/5; 560/1980] END leaf\_size=25, n\_neighbors=65;; score=0.621 total time=0.0s  
 [CV 4/5; 566/1980] END leaf\_size=25, n\_neighbors=71;; score=0.587 total time=0.0s

[CV 5/5; 566/1980] START leaf\_size=25, n\_neighbors=71...  
 [CV 1/5; 561/1980] START leaf\_size=25, n\_neighbors=66...  
 [CV 3/5; 559/1980] END leaf\_size=25, n\_neighbors=64;; score=0.562 total time=0.0s  
 [CV 4/5; 559/1980] START leaf\_size=25, n\_neighbors=64...  
 [CV 4/5; 557/1980] END leaf\_size=25, n\_neighbors=62;; score=0.600 total time=0.0s  
 [CV 5/5; 557/1980] START leaf\_size=25, n\_neighbors=62...  
 [CV 1/5; 555/1980] END leaf\_size=25, n\_neighbors=60;; score=0.667 total time=0.0s  
 [CV 2/5; 555/1980] START leaf\_size=25, n\_neighbors=60...  
 [CV 2/5; 556/1980] END leaf\_size=25, n\_neighbors=61;; score=0.603 total time=0.0s  
 [CV 3/5; 562/1980] END leaf\_size=25, n\_neighbors=67;; score=0.564 total time=0.0s  
 [CV 4/5; 562/1980] START leaf\_size=25, n\_neighbors=67...  
 [CV 3/5; 556/1980] START leaf\_size=25, n\_neighbors=61...  
 [CV 3/5; 565/1980] END leaf\_size=25, n\_neighbors=70;; score=0.559 total time=0.0s  
 [CV 4/5; 565/1980] START leaf\_size=25, n\_neighbors=70...  
 [CV 1/5; 564/1980] END leaf\_size=25, n\_neighbors=69;; score=0.663 total time=0.0s  
 [CV 2/5; 564/1980] START leaf\_size=25, n\_neighbors=69...  
 [CV 4/5; 559/1980] END leaf\_size=25, n\_neighbors=64;; score=0.593 total time=0.0s  
 [CV 5/5; 559/1980] START leaf\_size=25, n\_neighbors=64...  
 [CV 1/5; 561/1980] END leaf\_size=25, n\_neighbors=66;; score=0.663 total time=0.0s  
 [CV 2/5; 561/1980] START leaf\_size=25, n\_neighbors=66...  
 [CV 5/5; 566/1980] END leaf\_size=25, n\_neighbors=71;; score=0.613 total time=0.0s  
 [CV 1/5; 567/1980] START leaf\_size=25, n\_neighbors=72...  
 [CV 2/5; 555/1980] END leaf\_size=25, n\_neighbors=60;; score=0.605 total time=0.0s  
 [CV 5/5; 569/1980] START leaf\_size=25, n\_neighbors=74...  
 [CV 2/5; 568/1980] END leaf\_size=25, n\_neighbors=73;; score=0.605 total time=0.1s  
 [CV 3/5; 568/1980] START leaf\_size=25, n\_neighbors=73...  
 [CV 4/5; 562/1980] END leaf\_size=25, n\_neighbors=67;; score=0.587 total time=0.0s  
 [CV 5/5; 562/1980] START leaf\_size=25, n\_neighbors=67...  
 [CV 4/5; 565/1980] END leaf\_size=25, n\_neighbors=70;; score=0.589 total time=0.0s  
 [CV 5/5; 565/1980] START leaf\_size=25, n\_neighbors=70...  
 [CV 3/5; 556/1980] END leaf\_size=25, n\_neighbors=61;; score=0.557 total time=0.0s  
 [CV 4/5; 556/1980] START leaf\_size=25, n\_neighbors=61...

[CV 5/5; 557/1980] END leaf\_size=25, n\_neighbors=62;; score=0.610 total time=0.0s  
 [CV 1/5; 558/1980] START leaf\_size=25, n\_neighbors=63...  
 [CV 5/5; 559/1980] END leaf\_size=25, n\_neighbors=64;; score=0.613 total time=0.0s  
 [CV 1/5; 560/1980] START leaf\_size=25, n\_neighbors=65...  
 [CV 2/5; 564/1980] END leaf\_size=25, n\_neighbors=69;; score=0.609 total time=0.0s  
 [CV 3/5; 564/1980] START leaf\_size=25, n\_neighbors=69...  
 [CV 2/5; 561/1980] END leaf\_size=25, n\_neighbors=66;; score=0.609 total time=0.0s  
 [CV 3/5; 561/1980] START leaf\_size=25, n\_neighbors=66...  
 [CV 5/5; 562/1980] END leaf\_size=25, n\_neighbors=67;; score=0.613 total time=0.0s  
 [CV 1/5; 563/1980] START leaf\_size=25, n\_neighbors=68...  
 [CV 5/5; 569/1980] END leaf\_size=25, n\_neighbors=74;; score=0.623 total time=0.0s  
 [CV 1/5; 570/1980] START leaf\_size=25, n\_neighbors=75...  
 [CV 1/5; 567/1980] END leaf\_size=25, n\_neighbors=72;; score=0.663 total time=0.0s  
 [CV 5/5; 565/1980] END leaf\_size=25, n\_neighbors=70;; score=0.606 total time= 0.0s  
  
 [CV 2/5; 567/1980] START leaf\_size=25, n\_neighbors=72...  
 [CV 1/5; 566/1980] START leaf\_size=25, n\_neighbors=71...  
 [CV 3/5; 568/1980] END leaf\_size=25, n\_neighbors=73;; score=0.566 total time=0.0s  
 [CV 4/5; 568/1980] START leaf\_size=25, n\_neighbors=73...  
 [CV 4/5; 556/1980] END leaf\_size=25, n\_neighbors=61;; score=0.604 total time=0.0s  
 [CV 5/5; 556/1980] START leaf\_size=25, n\_neighbors=61...  
 [CV 1/5; 560/1980] END leaf\_size=25, n\_neighbors=65;; score=0.663 total time=0.0s  
 [CV 3/5; 564/1980] END leaf\_size=25, n\_neighbors=69;; score=0.568 total time=0.0s  
 [CV 4/5; 564/1980] START leaf\_size=25, n\_neighbors=69...  
 [CV 3/5; 571/1980] START leaf\_size=25, n\_neighbors=76...  
 [CV 3/5; 561/1980] END leaf\_size=25, n\_neighbors=66;; score=0.566 total time=0.0s  
 [CV 4/5; 561/1980] START leaf\_size=25, n\_neighbors=66...  
 [CV 1/5; 558/1980] END leaf\_size=25, n\_neighbors=63;; score=0.665 total time=0.0s  
 [CV 2/5; 558/1980] START leaf\_size=25, n\_neighbors=63...  
 [CV 1/5; 563/1980] END leaf\_size=25, n\_neighbors=68;; score=0.667 total time=0.0s  
 [CV 2/5; 563/1980] START leaf\_size=25, n\_neighbors=68...  
 [CV 1/5; 570/1980] END leaf\_size=25, n\_neighbors=75;; score=0.667 total time=0.0s  
 [CV 2/5; 570/1980] START leaf\_size=25, n\_neighbors=75...

[CV 1/5; 566/1980] END leaf\_size=25, n\_neighbors=71;; score=0.670 total time=0.0s  
 [CV 2/5; 566/1980] START leaf\_size=25, n\_neighbors=71..  
 [CV 2/5; 567/1980] END leaf\_size=25, n\_neighbors=72;; score=0.607 total time=0.0s  
 [CV 3/5; 567/1980] START leaf\_size=25, n\_neighbors=72..  
 [CV 4/5; 568/1980] END leaf\_size=25, n\_neighbors=73;; score=0.591 total time=0.0s  
 [CV 5/5; 568/1980] START leaf\_size=25, n\_neighbors=73..  
 [CV 4/5; 564/1980] END leaf\_size=25, n\_neighbors=69;; score=0.582 total time=0.0s  
 [CV 4/5; 561/1980] END leaf\_size=25, n\_neighbors=66;; score=0.574 total time=0.0s  
 [CV 5/5; 564/1980] START leaf\_size=25,  
 n\_neighbors=69...[CV 3/5; 571/1980] END leaf\_size=25,  
 n\_neighbors=76;; score=0.557 total time= 0.0s  
  
 [CV 4/5; 571/1980] START leaf\_size=25, n\_neighbors=76..  
 [CV 5/5; 556/1980] END leaf\_size=25, n\_neighbors=61;; score=0.606 total time=0.0s  
 [CV 1/5; 573/1980] START leaf\_size=25, n\_neighbors=78..  
 [CV 2/5; 563/1980] END leaf\_size=25, n\_neighbors=68;; score=0.609 total time=0.0s  
 [CV 4/5; 574/1980] START leaf\_size=25, n\_neighbors=79..  
 [CV 2/5; 558/1980] END leaf\_size=25, n\_neighbors=63;; score=0.609 total time=0.0s  
 [CV 3/5; 558/1980] START leaf\_size=25, n\_neighbors=63..  
 [CV 2/5; 570/1980] END leaf\_size=25, n\_neighbors=75;; score=0.603 total time=0.0s  
 [CV 3/5; 570/1980] START leaf\_size=25, n\_neighbors=75..  
 [CV 2/5; 576/1980] START leaf\_size=25, n\_neighbors=81..  
 [CV 2/5; 566/1980] END leaf\_size=25, n\_neighbors=71;; score=0.616 total time=0.0s  
 [CV 3/5; 566/1980] START leaf\_size=25, n\_neighbors=71..  
 [CV 3/5; 567/1980] END leaf\_size=25, n\_neighbors=72;; score=0.562 total time=0.0s  
 [CV 4/5; 567/1980] START leaf\_size=25, n\_neighbors=72..  
 [CV 5/5; 564/1980] END leaf\_size=25, n\_neighbors=69;; score=0.621 total time=0.0s  
 [CV 4/5; 571/1980] END leaf\_size=25, n\_neighbors=76;; score=0.578 total time=0.0s  
 [CV 5/5; 571/1980] START leaf\_size=25, n\_neighbors=76..  
 [CV 5/5; 577/1980] START leaf\_size=25, n\_neighbors=82..  
 [CV 1/5; 573/1980] END leaf\_size=25, n\_neighbors=78;; score=0.659 total time=0.0s  
 [CV 2/5; 573/1980] START leaf\_size=25, n\_neighbors=78..  
 [CV 4/5; 574/1980] END leaf\_size=25, n\_neighbors=79;; score=0.584 total time=0.0s

[CV 5/5; 574/1980] START leaf\_size=25, n\_neighbors=79...  
 [CV 3/5; 566/1980] END leaf\_size=25, n\_neighbors=71;; score=0.562 total time=0.0s  
 [CV 3/5; 558/1980] END leaf\_size=25, n\_neighbors=63;; score=0.562 total time=0.0s  
 [CV 3/5; 579/1980] START leaf\_size=25, n\_neighbors=84...  
 [CV 3/5; 570/1980] END leaf\_size=25, n\_neighbors=75;; score=0.555 total time=0.0s  
 [CV 4/5; 570/1980] START leaf\_size=25, n\_neighbors=75...  
 [CV 1/5; 581/1980] START leaf\_size=25, n\_neighbors=86...  
 [CV 2/5; 576/1980] END leaf\_size=25, n\_neighbors=81;; score=0.596 total time=0.0s  
 [CV 3/5; 576/1980] START leaf\_size=25, n\_neighbors=81...  
 [CV 5/5; 568/1980] END leaf\_size=25, n\_neighbors=73;; score=0.628 total time=0.1s  
 [CV 1/5; 569/1980] START leaf\_size=25, n\_neighbors=74...  
 [CV 5/5; 571/1980] END leaf\_size=25, n\_neighbors=76;; score=0.621 total time=0.0s  
 [CV 1/5; 572/1980] START leaf\_size=25, n\_neighbors=77...  
 [CV 5/5; 577/1980] END leaf\_size=25, n\_neighbors=82;; score=0.630 total time=0.0s  
 [CV 1/5; 578/1980] START leaf\_size=25, n\_neighbors=83...  
 [CV 4/5; 567/1980] END leaf\_size=25, n\_neighbors=72;; score=0.593 total time=0.0s  
 [CV 5/5; 567/1980] START leaf\_size=25, n\_neighbors=72...  
 [CV 2/5; 573/1980] END leaf\_size=25, n\_neighbors=78;; score=0.603 total time=0.0s  
 [CV 3/5; 573/1980] START leaf\_size=25, n\_neighbors=78...  
 [CV 5/5; 574/1980] END leaf\_size=25, n\_neighbors=79;; score=0.619 total time=0.0s  
 [CV 1/5; 575/1980] START leaf\_size=25, n\_neighbors=80...  
 [CV 4/5; 570/1980] END leaf\_size=25, n\_neighbors=75;; score=0.591 total time=0.0s  
 [CV 5/5; 570/1980] START leaf\_size=25, n\_neighbors=75...  
 [CV 1/5; 581/1980] END leaf\_size=25, n\_neighbors=86;; score=0.648 total time=0.0s  
 [CV 2/5; 581/1980] START leaf\_size=25, n\_neighbors=86...  
 [CV 3/5; 579/1980] END leaf\_size=25, n\_neighbors=84;; score=0.555 total time=0.0s  
 [CV 4/5; 579/1980] START leaf\_size=25, n\_neighbors=84...  
 [CV 3/5; 576/1980] END leaf\_size=25, n\_neighbors=81;; score=0.562 total time=0.0s  
 [CV 4/5; 576/1980] START leaf\_size=25, n\_neighbors=81...  
 [CV 1/5; 572/1980] END leaf\_size=25, n\_neighbors=77;; score=0.667 total time=0.0s  
 [CV 2/5; 572/1980] START leaf\_size=25, n\_neighbors=77...  
 [CV 1/5; 578/1980] END leaf\_size=25, n\_neighbors=83;; score=0.650 total time=0.0s



[CV 2/5; 578/1980] START leaf\_size=25, n\_neighbors=83...  
 [CV 5/5; 567/1980] END leaf\_size=25, n\_neighbors=72;; score=0.613 total time=0.0s  
 [CV 1/5; 568/1980] START leaf\_size=25, n\_neighbors=73...  
 [CV 1/5; 569/1980] END leaf\_size=25, n\_neighbors=74;; score=0.661 total time=0.0s  
 [CV 2/5; 569/1980] START leaf\_size=25, n\_neighbors=74...  
 [CV 3/5; 573/1980] END leaf\_size=25, n\_neighbors=78;; score=0.555 total time=0.0s  
 [CV 4/5; 573/1980] START leaf\_size=25, n\_neighbors=78...  
 [CV 5/5; 570/1980] END leaf\_size=25, n\_neighbors=75;; score=0.632 total time=0.0s  
 [CV 1/5; 571/1980] START leaf\_size=25, n\_neighbors=76...  
 [CV 2/5; 581/1980] END leaf\_size=25, n\_neighbors=86;; score=0.598 total time=0.0s  
 [CV 3/5; 581/1980] START leaf\_size=25, n\_neighbors=86...  
 [CV 1/5; 575/1980] END leaf\_size=25, n\_neighbors=80;; score=0.659 total time=0.0s  
 [CV 2/5; 575/1980] START leaf\_size=25, n\_neighbors=80...  
 [CV 4/5; 576/1980] END leaf\_size=25, n\_neighbors=81;; score=0.587 total time=0.0s  
 [CV 5/5; 576/1980] START leaf\_size=25, n\_neighbors=81...  
 [CV 4/5; 579/1980] END leaf\_size=25, n\_neighbors=84;; score=0.582 total time=0.0s  
 [CV 2/5; 572/1980] END leaf\_size=25, n\_neighbors=77;; score=0.605 total time= 0.0s  
  
 [CV 3/5; 572/1980] START leaf\_size=25, n\_neighbors=77...  
 [CV 5/5; 579/1980] START leaf\_size=25, n\_neighbors=84...  
 [CV 1/5; 568/1980] END leaf\_size=25, n\_neighbors=73;; score=0.663 total time=0.0s  
 [CV 2/5; 578/1980] END leaf\_size=25, n\_neighbors=83;; score=0.596 total time=0.0s  
 [CV 3/5; 578/1980] START leaf\_size=25, n\_neighbors=83...  
 [CV 4/5; 582/1980] START leaf\_size=25, n\_neighbors=87...  
 [CV 4/5; 573/1980] END leaf\_size=25, n\_neighbors=78;; score=0.571 total time=0.0s  
 [CV 5/5; 573/1980] START leaf\_size=25, n\_neighbors=78...  
 [CV 2/5; 569/1980] END leaf\_size=25, n\_neighbors=74;; score=0.607 total time=0.1s  
 [CV 3/5; 569/1980] START leaf\_size=25, n\_neighbors=74...  
 [CV 1/5; 571/1980] END leaf\_size=25, n\_neighbors=76;; score=0.667 total time=0.0s  
 [CV 2/5; 571/1980] START leaf\_size=25, n\_neighbors=76...  
 [CV 3/5; 581/1980] END leaf\_size=25, n\_neighbors=86;; score=0.559 total time=0.0s  
 [CV 4/5; 581/1980] START leaf\_size=25, n\_neighbors=86...  
 [CV 5/5; 576/1980] END leaf\_size=25, n\_neighbors=81;; score=0.626 total time=0.0s

[CV 1/5; 577/1980] START leaf\_size=25, n\_neighbors=82...  
 [CV 2/5; 575/1980] END leaf\_size=25, n\_neighbors=80;; score=0.594 total time=0.0s  
 [CV 3/5; 575/1980] START leaf\_size=25, n\_neighbors=80...  
 [CV 3/5; 572/1980] END leaf\_size=25, n\_neighbors=77;; score=0.562 total time=0.0s  
 [CV 4/5; 572/1980] START leaf\_size=25, n\_neighbors=77...  
 [CV 3/5; 578/1980] END leaf\_size=25, n\_neighbors=83;; score=0.564 total time=0.0s  
 [CV 4/5; 578/1980] START leaf\_size=25, n\_neighbors=83...  
 [CV 5/5; 579/1980] END leaf\_size=25, n\_neighbors=84;; score=0.626 total time=0.0s  
 [CV 1/5; 580/1980] START leaf\_size=25, n\_neighbors=85...  
 [CV 4/5; 582/1980] END leaf\_size=25, n\_neighbors=87;; score=0.584 total time=0.0s  
 [CV 5/5; 582/1980] START leaf\_size=25, n\_neighbors=87...  
 [CV 5/5; 573/1980] END leaf\_size=25, n\_neighbors=78;; score=0.628 total time=0.0s  
 [CV 1/5; 574/1980] START leaf\_size=25, n\_neighbors=79...  
 [CV 3/5; 569/1980] END leaf\_size=25, n\_neighbors=74;; score=0.557 total time=0.0s  
 [CV 4/5; 569/1980] START leaf\_size=25, n\_neighbors=74...  
 [CV 2/5; 571/1980] END leaf\_size=25, n\_neighbors=76;; score=0.603 total time=0.0s  
 [CV 2/5; 584/1980] START leaf\_size=25, n\_neighbors=89...  
 [CV 4/5; 581/1980] END leaf\_size=25, n\_neighbors=86;; score=0.580 total time=0.0s  
 [CV 5/5; 581/1980] START leaf\_size=25, n\_neighbors=86...  
 [CV 4/5; 572/1980] END leaf\_size=25, n\_neighbors=77;; score=0.580 total time=0.0s  
 [CV 5/5; 572/1980] START leaf\_size=25, n\_neighbors=77...  
 [CV 1/5; 577/1980] END leaf\_size=25, n\_neighbors=82;; score=0.659 total time=0.0s  
 [CV 1/5; 580/1980] END leaf\_size=25, n\_neighbors=85;; score=0.650 total time=0.0s  
 [CV 2/5; 580/1980] START leaf\_size=25, n\_neighbors=85...  
 [CV 4/5; 578/1980] END leaf\_size=25, n\_neighbors=83;; score=0.584 total time=0.0s  
 [CV 5/5; 578/1980] START leaf\_size=25, n\_neighbors=83...  
 [CV 3/5; 575/1980] END leaf\_size=25, n\_neighbors=80;; score=0.564 total time=0.0s  
 [CV 4/5; 575/1980] START leaf\_size=25, n\_neighbors=80...  
  
 [CV 2/5; 577/1980] START leaf\_size=25, n\_neighbors=82...  
 [CV 1/5; 574/1980] END leaf\_size=25, n\_neighbors=79;; score=0.659 total time=0.0s  
 [CV 2/5; 574/1980] START leaf\_size=25, n\_neighbors=79...  
 [CV 5/5; 582/1980] END leaf\_size=25, n\_neighbors=87;; score=0.619 total time=0.1s

[CV 1/5; 583/1980] START leaf\_size=25, n\_neighbors=88...  
 [CV 2/5; 584/1980] END leaf\_size=25, n\_neighbors=89;; score=0.600 total time=0.0s  
 [CV 3/5; 584/1980] START leaf\_size=25, n\_neighbors=89...  
 [CV 4/5; 569/1980] END leaf\_size=25, n\_neighbors=74;; score=0.591 total time=0.0s  
 [CV 5/5; 581/1980] END leaf\_size=25, n\_neighbors=86;; score=0.623 total time=0.0s  
 [CV 1/5; 582/1980] START leaf\_size=25, n\_neighbors=87...  
 [CV 5/5; 585/1980] START leaf\_size=25, n\_neighbors=90...  
 [CV 5/5; 572/1980] END leaf\_size=25, n\_neighbors=77;; score=0.617 total time=0.0s  
 [CV 3/5; 587/1980] START leaf\_size=25, n\_neighbors=92...  
 [CV 2/5; 580/1980] END leaf\_size=25, n\_neighbors=85;; score=0.600 total time=0.0s  
 [CV 3/5; 580/1980] START leaf\_size=25, n\_neighbors=85...  
 [CV 5/5; 578/1980] END leaf\_size=25, n\_neighbors=83;; score=0.619 total time=0.0s  
 [CV 1/5; 579/1980] START leaf\_size=25, n\_neighbors=84...  
 [CV 2/5; 574/1980] END leaf\_size=25, n\_neighbors=79;; score=0.598 total time=0.0s  
 [CV 3/5; 574/1980] START leaf\_size=25, n\_neighbors=79...  
 [CV 2/5; 577/1980] END leaf\_size=25, n\_neighbors=82;; score=0.600 total time=0.0s  
 [CV 3/5; 577/1980] START leaf\_size=25, n\_neighbors=82...  
 [CV 4/5; 575/1980] END leaf\_size=25, n\_neighbors=80;; score=0.584 total time=0.0s  
 [CV 5/5; 575/1980] START leaf\_size=25, n\_neighbors=80...  
 [CV 3/5; 584/1980] END leaf\_size=25, n\_neighbors=89;; score=0.564 total time=0.0s  
 [CV 4/5; 584/1980] START leaf\_size=25, n\_neighbors=89...  
 [CV 1/5; 582/1980] END leaf\_size=25, n\_neighbors=87;; score=0.650 total time=0.0s  
 [CV 2/5; 582/1980] START leaf\_size=25, n\_neighbors=87...  
 [CV 5/5; 585/1980] END leaf\_size=25, n\_neighbors=90;; score=0.617 total time=0.0s  
 [CV 1/5; 586/1980] START leaf\_size=25, n\_neighbors=91...  
 [CV 3/5; 587/1980] END leaf\_size=25, n\_neighbors=92;; score=0.564 total time=0.0s  
 [CV 4/5; 587/1980] START leaf\_size=25, n\_neighbors=92...  
 [CV 3/5; 580/1980] END leaf\_size=25, n\_neighbors=85;; score=0.557 total time=0.0s  
 [CV 4/5; 580/1980] START leaf\_size=25, n\_neighbors=85...  
 [CV 1/5; 579/1980] END leaf\_size=25, n\_neighbors=84;; score=0.654 total time=0.0s  
 [CV 2/5; 579/1980] START leaf\_size=25, n\_neighbors=84...  
 [CV 1/5; 583/1980] END leaf\_size=25, n\_neighbors=88;; score=0.652 total time=0.1s

[CV 2/5; 583/1980] START leaf\_size=25, n\_neighbors=88...  
 [CV 3/5; 574/1980] END leaf\_size=25, n\_neighbors=79;; score=0.557 total time=0.0s  
 [CV 3/5; 577/1980] END leaf\_size=25, n\_neighbors=82;; score=0.566 total time=0.0s  
 [CV 4/5; 577/1980] START leaf\_size=25, n\_neighbors=82...  
 [CV 1/5; 589/1980] START leaf\_size=25, n\_neighbors=94...  
 [CV 4/5; 584/1980] END leaf\_size=25, n\_neighbors=89;; score=0.591 total time=0.0s  
 [CV 5/5; 584/1980] START leaf\_size=25, n\_neighbors=89...  
 [CV 2/5; 582/1980] END leaf\_size=25, n\_neighbors=87;; score=0.603 total time=0.0s  
 [CV 3/5; 582/1980] START leaf\_size=25, n\_neighbors=87...  
 [CV 5/5; 575/1980] END leaf\_size=25, n\_neighbors=80;; score=0.628 total time=0.0s  
 [CV 1/5; 576/1980] START leaf\_size=25, n\_neighbors=81...  
 [CV 4/5; 580/1980] END leaf\_size=25, n\_neighbors=85;; score=0.576 total time=0.0s  
 [CV 5/5; 580/1980] START leaf\_size=25, n\_neighbors=85...  
 [CV 1/5; 586/1980] END leaf\_size=25, n\_neighbors=91;; score=0.648 total time=0.0s  
 [CV 2/5; 586/1980] START leaf\_size=25, n\_neighbors=91...  
 [CV 4/5; 587/1980] END leaf\_size=25, n\_neighbors=92;; score=0.582 total time=0.0s  
 [CV 5/5; 587/1980] START leaf\_size=25, n\_neighbors=92...  
 [CV 2/5; 579/1980] END leaf\_size=25, n\_neighbors=84;; score=0.603 total time=0.0s  
 [CV 4/5; 590/1980] START leaf\_size=25, n\_neighbors=95...  
 [CV 4/5; 577/1980] END leaf\_size=25, n\_neighbors=82;; score=0.587 total time=0.0s  
 [CV 2/5; 583/1980] END leaf\_size=25, n\_neighbors=88;; score=0.600 total time=0.0s  
 [CV 3/5; 583/1980] START leaf\_size=25, n\_neighbors=88...  
 [CV 2/5; 592/1980] START leaf\_size=25, n\_neighbors=97...  
 [CV 1/5; 589/1980] END leaf\_size=25, n\_neighbors=94;; score=0.644 total time=0.0s  
 [CV 2/5; 589/1980] START leaf\_size=25, n\_neighbors=94...  
 [CV 5/5; 584/1980] END leaf\_size=25, n\_neighbors=89;; score=0.621 total time=0.0s  
 [CV 1/5; 585/1980] START leaf\_size=25, n\_neighbors=90...  
 [CV 5/5; 580/1980] END leaf\_size=25, n\_neighbors=85;; score=0.626 total time=0.0s  
 [CV 3/5; 582/1980] END leaf\_size=25, n\_neighbors=87;; score=0.562 total time=0.0s  
 [CV 5/5; 593/1980] START leaf\_size=25, n\_neighbors=98...  
 [CV 3/5; 595/1980] START leaf\_size=26, n\_neighbors=1...  
 [CV 5/5; 587/1980] END leaf\_size=25, n\_neighbors=92;; score=0.621 total time=0.0s

[CV 1/5; 588/1980] START leaf\_size=25, n\_neighbors=93...  
 [CV 2/5; 586/1980] END leaf\_size=25, n\_neighbors=91;; score=0.605 total time=0.0s  
 [CV 3/5; 586/1980] START leaf\_size=25, n\_neighbors=91...  
 [CV 1/5; 576/1980] END leaf\_size=25, n\_neighbors=81;; score=0.659 total time=0.0s  
 [CV 4/5; 590/1980] END leaf\_size=25, n\_neighbors=95;; score=0.584 total time=0.0s  
 [CV 5/5; 590/1980] START leaf\_size=25, n\_neighbors=95...  
 [CV 1/5; 597/1980] START leaf\_size=26, n\_neighbors=3...  
 [CV 3/5; 583/1980] END leaf\_size=25, n\_neighbors=88;; score=0.562 total time=0.0s  
 [CV 4/5; 583/1980] START leaf\_size=25, n\_neighbors=88...  
 [CV 2/5; 592/1980] END leaf\_size=25, n\_neighbors=97;; score=0.594 total time=0.0s  
 [CV 3/5; 592/1980] START leaf\_size=25, n\_neighbors=97...  
 [CV 3/5; 595/1980] END leaf\_size=26, n\_neighbors=1;; score=0.490 total time=0.0s  
 [CV 4/5; 595/1980] START leaf\_size=26, n\_neighbors=1...  
 [CV 2/5; 589/1980] END leaf\_size=25, n\_neighbors=94;; score=0.600 total time=0.0s  
 [CV 3/5; 589/1980] START leaf\_size=25, n\_neighbors=94...  
 [CV 5/5; 593/1980] END leaf\_size=25, n\_neighbors=98;; score=0.606 total time=0.0s  
 [CV 1/5; 594/1980] START leaf\_size=25, n\_neighbors=99...  
 [CV 1/5; 585/1980] END leaf\_size=25, n\_neighbors=90;; score=0.650 total time=0.0s  
 [CV 2/5; 585/1980] START leaf\_size=25, n\_neighbors=90...  
 [CV 1/5; 588/1980] END leaf\_size=25, n\_neighbors=93;; score=0.646 total time=0.0s  
 [CV 2/5; 588/1980] START leaf\_size=25, n\_neighbors=93...  
 [CV 4/5; 595/1980] END leaf\_size=26, n\_neighbors=1;; score=0.539 total time=0.0s  
 [CV 5/5; 595/1980] START leaf\_size=26, n\_neighbors=1...  
 [CV 3/5; 586/1980] END leaf\_size=25, n\_neighbors=91;; score=0.564 total time=0.0s  
 [CV 4/5; 586/1980] START leaf\_size=25, n\_neighbors=91...  
 [CV 1/5; 597/1980] END leaf\_size=26, n\_neighbors=3;; score=0.557 total time=0.0s  
 [CV 2/5; 597/1980] START leaf\_size=26, n\_neighbors=3...  
 [CV 4/5; 583/1980] END leaf\_size=25, n\_neighbors=88;; score=0.578 total time=0.0s  
 [CV 5/5; 583/1980] START leaf\_size=25, n\_neighbors=88...  
 [CV 3/5; 592/1980] END leaf\_size=25, n\_neighbors=97;; score=0.564 total time=0.0s  
 [CV 4/5; 592/1980] START leaf\_size=25, n\_neighbors=97...  
 [CV 5/5; 590/1980] END leaf\_size=25, n\_neighbors=95;; score=0.608 total time=0.0s

[CV 1/5; 591/1980] START leaf\_size=25, n\_neighbors=96...  
 [CV 5/5; 595/1980] END leaf\_size=26, n\_neighbors=1;; score=0.567 total time=0.0s  
 [CV 1/5; 596/1980] START leaf\_size=26, n\_neighbors=2...  
 [CV 3/5; 589/1980] END leaf\_size=25, n\_neighbors=94;; score=0.562 total time=0.0s  
 [CV 4/5; 589/1980] START leaf\_size=25, n\_neighbors=94...  
 [CV 1/5; 594/1980] END leaf\_size=25, n\_neighbors=99;; score=0.641 total time=0.0s  
 [CV 2/5; 594/1980] START leaf\_size=25, n\_neighbors=99...  
 [CV 2/5; 585/1980] END leaf\_size=25, n\_neighbors=90;; score=0.600 total time=0.0s  
 [CV 3/5; 585/1980] START leaf\_size=25, n\_neighbors=90...  
 [CV 2/5; 588/1980] END leaf\_size=25, n\_neighbors=93;; score=0.603 total time=0.0s  
 [CV 3/5; 588/1980] START leaf\_size=25, n\_neighbors=93...  
 [CV 2/5; 597/1980] END leaf\_size=26, n\_neighbors=3;; score=0.579 total time=0.0s  
 [CV 3/5; 597/1980] START leaf\_size=26, n\_neighbors=3...  
 [CV 4/5; 586/1980] END leaf\_size=25, n\_neighbors=91;; score=0.591 total time=0.0s  
 [CV 5/5; 586/1980] START leaf\_size=25, n\_neighbors=91...  
 [CV 1/5; 596/1980] END leaf\_size=26, n\_neighbors=2;; score=0.566 total time=0.0s  
 [CV 2/5; 596/1980] START leaf\_size=26, n\_neighbors=2...  
 [CV 4/5; 592/1980] END leaf\_size=25, n\_neighbors=97;; score=0.580 total time=0.0s  
 [CV 5/5; 592/1980] START leaf\_size=25, n\_neighbors=97...  
 [CV 1/5; 591/1980] END leaf\_size=25, n\_neighbors=96;; score=0.637 total time=0.0s  
 [CV 2/5; 591/1980] START leaf\_size=25, n\_neighbors=96...  
 [CV 2/5; 596/1980] END leaf\_size=26, n\_neighbors=2;; score=0.579 total time=0.0s  
 [CV 3/5; 596/1980] START leaf\_size=26, n\_neighbors=2...  
 [CV 5/5; 583/1980] END leaf\_size=25, n\_neighbors=88;; score=0.617 total time=0.0s  
 [CV 1/5; 584/1980] START leaf\_size=25, n\_neighbors=89...  
 [CV 2/5; 594/1980] END leaf\_size=25, n\_neighbors=99;; score=0.598 total time=0.0s  
 [CV 3/5; 594/1980] START leaf\_size=25, n\_neighbors=99...  
 [CV 4/5; 589/1980] END leaf\_size=25, n\_neighbors=94;; score=0.582 total time=0.0s  
 [CV 5/5; 589/1980] START leaf\_size=25, n\_neighbors=94...  
 [CV 3/5; 597/1980] END leaf\_size=26, n\_neighbors=3;; score=0.484 total time=0.0s  
 [CV 4/5; 597/1980] START leaf\_size=26, n\_neighbors=3...  
 [CV 3/5; 588/1980] END leaf\_size=25, n\_neighbors=93;; score=0.564 total time=0.0s

[CV 4/5; 588/1980] START leaf\_size=25, n\_neighbors=93...  
 [CV 3/5; 585/1980] END leaf\_size=25, n\_neighbors=90;; score=0.564 total time=0.0s  
 [CV 4/5; 585/1980] START leaf\_size=25, n\_neighbors=90...  
 [CV 5/5; 586/1980] END leaf\_size=25, n\_neighbors=91;; score=0.623 total time=0.0s  
 [CV 1/5; 587/1980] START leaf\_size=25, n\_neighbors=92...  
 [CV 3/5; 596/1980] END leaf\_size=26, n\_neighbors=2;; score=0.512 total time=0.0s  
 [CV 4/5; 596/1980] START leaf\_size=26, n\_neighbors=2...  
 [CV 5/5; 592/1980] END leaf\_size=25, n\_neighbors=97;; score=0.602 total time=0.0s  
 [CV 1/5; 593/1980] START leaf\_size=25, n\_neighbors=98...  
 [CV 4/5; 597/1980] END leaf\_size=26, n\_neighbors=3;; score=0.584 total time=0.0s  
 [CV 5/5; 597/1980] START leaf\_size=26, n\_neighbors=3...  
 [CV 2/5; 591/1980] END leaf\_size=25, n\_neighbors=96;; score=0.598 total time=0.0s  
 [CV 3/5; 591/1980] START leaf\_size=25, n\_neighbors=96...  
 [CV 3/5; 594/1980] END leaf\_size=25, n\_neighbors=99;; score=0.566 total time=0.0s  
 [CV 4/5; 594/1980] START leaf\_size=25, n\_neighbors=99...  
 [CV 4/5; 588/1980] END leaf\_size=25, n\_neighbors=93;; score=0.587 total time=0.0s  
 [CV 5/5; 588/1980] START leaf\_size=25, n\_neighbors=93...  
 [CV 1/5; 584/1980] END leaf\_size=25, n\_neighbors=89;; score=0.646 total time=0.0s  
 [CV 5/5; 589/1980] END leaf\_size=25, n\_neighbors=94;; score=0.608 total time=0.0s  
 [CV 1/5; 590/1980] START leaf\_size=25, n\_neighbors=95...  
 [CV 4/5; 596/1980] END leaf\_size=26, n\_neighbors=2;; score=0.571 total time=0.0s  
 [CV 5/5; 596/1980] START leaf\_size=26, n\_neighbors=2...  
 [CV 4/5; 598/1980] START leaf\_size=26, n\_neighbors=4...  
 [CV 4/5; 585/1980] END leaf\_size=25, n\_neighbors=90;; score=0.580 total time=0.0s  
 [CV 2/5; 600/1980] START leaf\_size=26, n\_neighbors=6...  
 [CV 1/5; 587/1980] END leaf\_size=25, n\_neighbors=92;; score=0.646 total time=0.0s  
 [CV 2/5; 587/1980] START leaf\_size=25, n\_neighbors=92...  
 [CV 1/5; 593/1980] END leaf\_size=25, n\_neighbors=98;; score=0.635 total time=0.0s  
 [CV 2/5; 593/1980] START leaf\_size=25, n\_neighbors=98...  
 [CV 5/5; 597/1980] END leaf\_size=26, n\_neighbors=3;; score=0.593 total time=0.0s  
 [CV 1/5; 598/1980] START leaf\_size=26, n\_neighbors=4...  
 [CV 5/5; 596/1980] END leaf\_size=26, n\_neighbors=2;; score=0.574 total time=0.0s

[CV 5/5; 601/1980] START leaf\_size=26, n\_neighbors=7...  
 [CV 2/5; 600/1980] END leaf\_size=26, n\_neighbors=6;; score=0.546 total time=0.0s  
 [CV 3/5; 600/1980] START leaf\_size=26, n\_neighbors=6...  
 [CV 4/5; 594/1980] END leaf\_size=25, n\_neighbors=99;; score=0.589 total time=0.0s  
 [CV 5/5; 594/1980] START leaf\_size=25, n\_neighbors=99...  
 [CV 5/5; 588/1980] END leaf\_size=25, n\_neighbors=93;; score=0.617 total time=0.0s  
 [CV 3/5; 603/1980] START leaf\_size=26, n\_neighbors=9...  
 [CV 5/5; 601/1980] END leaf\_size=26, n\_neighbors=7;; score=0.613 total time=0.0s  
 [CV 1/5; 602/1980] START leaf\_size=26, n\_neighbors=8...  
 [CV 3/5; 600/1980] END leaf\_size=26, n\_neighbors=6;; score=0.555 total time=0.0s  
 [CV 4/5; 600/1980] START leaf\_size=26, n\_neighbors=6...  
 [CV 2/5; 593/1980] END leaf\_size=25, n\_neighbors=98;; score=0.596 total time=0.0s  
 [CV 3/5; 593/1980] START leaf\_size=25, n\_neighbors=98...  
 [CV 2/5; 587/1980] END leaf\_size=25, n\_neighbors=92;; score=0.598 total time=0.0s  
 [CV 1/5; 605/1980] START leaf\_size=26, n\_neighbors=11...  
 [CV 1/5; 598/1980] END leaf\_size=26, n\_neighbors=4;; score=0.562 total time=0.0s  
 [CV 2/5; 598/1980] START leaf\_size=26, n\_neighbors=4...  
 [CV 4/5; 598/1980] END leaf\_size=26, n\_neighbors=4;; score=0.580 total time=0.1s  
 [CV 5/5; 598/1980] START leaf\_size=26, n\_neighbors=4...  
 [CV 5/5; 594/1980] END leaf\_size=25, n\_neighbors=99;; score=0.610 total time=0.0s  
 [CV 1/5; 595/1980] START leaf\_size=26, n\_neighbors=1...  
 [CV 1/5; 602/1980] END leaf\_size=26, n\_neighbors=8;; score=0.568 total time=0.0s  
 [CV 4/5; 600/1980] END leaf\_size=26, n\_neighbors=6;; score=0.578 total time=0.0s  
 [CV 5/5; 600/1980] START leaf\_size=26, n\_neighbors=6...  
 [CV 3/5; 603/1980] END leaf\_size=26, n\_neighbors=9;; score=0.559 total time=0.0s  
 [CV 4/5; 603/1980] START leaf\_size=26, n\_neighbors=9...  
 [CV 2/5; 602/1980] START leaf\_size=26, n\_neighbors=8...  
 [CV 1/5; 595/1980] END leaf\_size=26, n\_neighbors=1;; score=0.516 total time=0.0s  
 [CV 2/5; 595/1980] START leaf\_size=26, n\_neighbors=1...  
 [CV 1/5; 605/1980] END leaf\_size=26, n\_neighbors=11;; score=0.624 total time=0.0s  
 [CV 2/5; 605/1980] START leaf\_size=26, n\_neighbors=11...  
 [CV 5/5; 600/1980] END leaf\_size=26, n\_neighbors=6;; score=0.582 total time=0.0s



[CV 1/5; 601/1980] START leaf\_size=26, n\_neighbors=7...  
 [CV 3/5; 593/1980] END leaf\_size=25, n\_neighbors=98;; score=0.562 total time=0.0s  
 [CV 4/5; 593/1980] START leaf\_size=25, n\_neighbors=98...  
 [CV 2/5; 598/1980] END leaf\_size=26, n\_neighbors=4;; score=0.581 total time=0.0s  
 [CV 3/5; 598/1980] START leaf\_size=26, n\_neighbors=4...  
 [CV 5/5; 598/1980] END leaf\_size=26, n\_neighbors=4;; score=0.593 total time=0.0s  
 [CV 1/5; 599/1980] START leaf\_size=26, n\_neighbors=5...  
 [CV 2/5; 595/1980] END leaf\_size=26, n\_neighbors=1;; score=0.568 total time=0.0s  
 [CV 4/5; 606/1980] START leaf\_size=26, n\_neighbors=12...  
 [CV 3/5; 591/1980] END leaf\_size=25, n\_neighbors=96;; score=0.564 total time=0.1s  
 [CV 4/5; 591/1980] START leaf\_size=25, n\_neighbors=96...  
 [CV 1/5; 590/1980] END leaf\_size=25, n\_neighbors=95;; score=0.644 total time=0.1s  
 [CV 2/5; 590/1980] START leaf\_size=25, n\_neighbors=95...  
 [CV 4/5; 603/1980] END leaf\_size=26, n\_neighbors=9;; score=0.589 total time=0.0s  
 [CV 5/5; 603/1980] START leaf\_size=26, n\_neighbors=9...  
 [CV 2/5; 602/1980] END leaf\_size=26, n\_neighbors=8;; score=0.551 total time=0.0s  
 [CV 3/5; 602/1980] START leaf\_size=26, n\_neighbors=8...  
 [CV 1/5; 601/1980] END leaf\_size=26, n\_neighbors=7;; score=0.568 total time=0.0s  
 [CV 2/5; 601/1980] START leaf\_size=26, n\_neighbors=7...  
 [CV 3/5; 598/1980] END leaf\_size=26, n\_neighbors=4;; score=0.544 total time=0.0s  
 [CV 2/5; 608/1980] START leaf\_size=26, n\_neighbors=14...  
 [CV 1/5; 599/1980] END leaf\_size=26, n\_neighbors=5;; score=0.546 total time=0.0s  
 [CV 2/5; 599/1980] START leaf\_size=26, n\_neighbors=5...  
 [CV 4/5; 606/1980] END leaf\_size=26, n\_neighbors=12;; score=0.576 total time=0.0s  
 [CV 5/5; 606/1980] START leaf\_size=26, n\_neighbors=12...  
 [CV 3/5; 602/1980] END leaf\_size=26, n\_neighbors=8;; score=0.551 total time=0.0s  
 [CV 4/5; 593/1980] END leaf\_size=25, n\_neighbors=98;; score=0.584 total time=0.0s  
 [CV 4/5; 602/1980] START leaf\_size=26, n\_neighbors=8...  
 [CV 2/5; 605/1980] END leaf\_size=26, n\_neighbors=11;; score=0.579 total time=0.0s  
 [CV 3/5; 605/1980] START leaf\_size=26, n\_neighbors=11...  
 [CV 5/5; 609/1980] START leaf\_size=26, n\_neighbors=15...  
 [CV 2/5; 601/1980] END leaf\_size=26, n\_neighbors=7;; score=0.559 total time=0.0s

[CV 3/5; 601/1980] START leaf\_size=26, n\_neighbors=7...  
 [CV 4/5; 591/1980] END leaf\_size=25, n\_neighbors=96;; score=0.582 total time=0.0s  
 [CV 5/5; 591/1980] START leaf\_size=25, n\_neighbors=96...  
 [CV 5/5; 603/1980] END leaf\_size=26, n\_neighbors=9;; score=0.613 total time=0.0s  
 [CV 1/5; 604/1980] START leaf\_size=26, n\_neighbors=10...  
 [CV 2/5; 590/1980] END leaf\_size=25, n\_neighbors=95;; score=0.603 total time=0.0s  
 [CV 3/5; 590/1980] START leaf\_size=25, n\_neighbors=95...  
 [CV 5/5; 606/1980] END leaf\_size=26, n\_neighbors=12;; score=0.613 total time=0.0s  
 [CV 1/5; 607/1980] START leaf\_size=26, n\_neighbors=13...  
 [CV 2/5; 608/1980] END leaf\_size=26, n\_neighbors=14;; score=0.572 total time=0.0s  
 [CV 3/5; 608/1980] START leaf\_size=26, n\_neighbors=14...  
 [CV 4/5; 602/1980] END leaf\_size=26, n\_neighbors=8;; score=0.617 total time=0.0s  
 [CV 5/5; 602/1980] START leaf\_size=26, n\_neighbors=8...  
 [CV 3/5; 601/1980] END leaf\_size=26, n\_neighbors=7;; score=0.551 total time=0.0s  
 [CV 4/5; 601/1980] START leaf\_size=26, n\_neighbors=7...  
 [CV 5/5; 609/1980] END leaf\_size=26, n\_neighbors=15;; score=0.615 total time=0.0s  
 [CV 1/5; 610/1980] START leaf\_size=26, n\_neighbors=16...  
 [CV 1/5; 607/1980] END leaf\_size=26, n\_neighbors=13;; score=0.633 total time=0.0s  
 [CV 2/5; 607/1980] START leaf\_size=26, n\_neighbors=13...  
 [CV 3/5; 608/1980] END leaf\_size=26, n\_neighbors=14;; score=0.544 total time=0.0s  
 [CV 4/5; 608/1980] START leaf\_size=26, n\_neighbors=14...  
 [CV 2/5; 599/1980] END leaf\_size=26, n\_neighbors=5;; score=0.562 total time=0.0s  
 [CV 3/5; 599/1980] START leaf\_size=26, n\_neighbors=5...  
 [CV 5/5; 602/1980] END leaf\_size=26, n\_neighbors=8;; score=0.608 total time=0.0s  
 [CV 1/5; 603/1980] START leaf\_size=26, n\_neighbors=9...  
 [CV 1/5; 604/1980] END leaf\_size=26, n\_neighbors=10;; score=0.611 total time=0.0s  
 [CV 2/5; 604/1980] START leaf\_size=26, n\_neighbors=10...  
 [CV 5/5; 591/1980] END leaf\_size=25, n\_neighbors=96;; score=0.604 total time=0.0s  
 [CV 1/5; 592/1980] START leaf\_size=25, n\_neighbors=97...  
 [CV 3/5; 590/1980] END leaf\_size=25, n\_neighbors=95;; score=0.566 total time=0.0s  
 [CV 4/5; 601/1980] END leaf\_size=26, n\_neighbors=7;; score=0.584 total time=0.0s  
 [CV 3/5; 611/1980] START leaf\_size=26, n\_neighbors=17...

[CV 1/5; 610/1980] END leaf\_size=26, n\_neighbors=16;; score=0.637 total time=0.0s  
 [CV 2/5; 610/1980] START leaf\_size=26, n\_neighbors=16...  
 [CV 1/5; 613/1980] START leaf\_size=26, n\_neighbors=19...  
 [CV 3/5; 605/1980] END leaf\_size=26, n\_neighbors=11;; score=0.551 total time=0.1s  
 [CV 4/5; 605/1980] START leaf\_size=26, n\_neighbors=11...  
 [CV 2/5; 607/1980] END leaf\_size=26, n\_neighbors=13;; score=0.570 total time=0.0s  
 [CV 3/5; 607/1980] START leaf\_size=26, n\_neighbors=13...  
 [CV 1/5; 603/1980] END leaf\_size=26, n\_neighbors=9;; score=0.592 total time=0.0s  
 [CV 2/5; 603/1980] START leaf\_size=26, n\_neighbors=9...  
 [CV 3/5; 599/1980] END leaf\_size=26, n\_neighbors=5;; score=0.536 total time=0.0s  
 [CV 4/5; 599/1980] START leaf\_size=26, n\_neighbors=5...  
 [CV 2/5; 604/1980] END leaf\_size=26, n\_neighbors=10;; score=0.568 total time=0.0s  
 [CV 3/5; 604/1980] START leaf\_size=26, n\_neighbors=10...  
 [CV 3/5; 611/1980] END leaf\_size=26, n\_neighbors=17;; score=0.564 total time=0.0s  
 [CV 4/5; 611/1980] START leaf\_size=26, n\_neighbors=17...  
 [CV 2/5; 610/1980] END leaf\_size=26, n\_neighbors=16;; score=0.575 total time=0.0s  
 [CV 3/5; 610/1980] START leaf\_size=26, n\_neighbors=16...  
 [CV 1/5; 613/1980] END leaf\_size=26, n\_neighbors=19;; score=0.637 total time=0.0s  
 [CV 2/5; 613/1980] START leaf\_size=26, n\_neighbors=19...  
 [CV 3/5; 607/1980] END leaf\_size=26, n\_neighbors=13;; score=0.553 total time=0.0s  
 [CV 4/5; 607/1980] START leaf\_size=26, n\_neighbors=13...  
 [CV 4/5; 608/1980] END leaf\_size=26, n\_neighbors=14;; score=0.584 total time=0.0s  
 [CV 5/5; 608/1980] START leaf\_size=26, n\_neighbors=14...  
 [CV 4/5; 605/1980] END leaf\_size=26, n\_neighbors=11;; score=0.589 total time=0.0s  
 [CV 5/5; 605/1980] START leaf\_size=26, n\_neighbors=11...  
 [CV 4/5; 599/1980] END leaf\_size=26, n\_neighbors=5;; score=0.589 total time=0.0s  
 [CV 5/5; 599/1980] START leaf\_size=26, n\_neighbors=5...  
 [CV 1/5; 592/1980] END leaf\_size=25, n\_neighbors=97;; score=0.641 total time=0.0s  
 [CV 2/5; 603/1980] END leaf\_size=26, n\_neighbors=9;; score=0.570 total time=0.0s  
 [CV 4/5; 614/1980] START leaf\_size=26, n\_neighbors=20...  
 [CV 2/5; 616/1980] START leaf\_size=26, n\_neighbors=22...  
 [CV 3/5; 610/1980] END leaf\_size=26, n\_neighbors=16;; score=0.557 total time=0.0s

[CV 4/5; 610/1980] START leaf\_size=26, n\_neighbors=16...  
 [CV 4/5; 611/1980] END leaf\_size=26, n\_neighbors=17;; score=0.580 total time=0.0s  
 [CV 5/5; 611/1980] START leaf\_size=26, n\_neighbors=17...  
 [CV 4/5; 607/1980] END leaf\_size=26, n\_neighbors=13;; score=0.574 total time=0.0s  
 [CV 5/5; 607/1980] START leaf\_size=26, n\_neighbors=13...  
 [CV 3/5; 604/1980] END leaf\_size=26, n\_neighbors=10;; score=0.549 total time=0.0s  
 [CV 2/5; 613/1980] END leaf\_size=26, n\_neighbors=19;; score=0.583 total time= 0.0s  
 [CV 3/5; 613/1980] START leaf\_size=26, n\_neighbors=19...  
  
 [CV 4/5; 604/1980] START leaf\_size=26, n\_neighbors=10...  
 [CV 5/5; 599/1980] END leaf\_size=26, n\_neighbors=5;; score=0.591 total time=0.0s  
 [CV 1/5; 600/1980] START leaf\_size=26, n\_neighbors=6...  
 [CV 5/5; 608/1980] END leaf\_size=26, n\_neighbors=14;; score=0.606 total time=0.0s  
 [CV 1/5; 609/1980] START leaf\_size=26, n\_neighbors=15...  
 [CV 5/5; 605/1980] END leaf\_size=26, n\_neighbors=11;; score=0.606 total time=0.0s  
 [CV 1/5; 606/1980] START leaf\_size=26, n\_neighbors=12...  
 [CV 4/5; 614/1980] END leaf\_size=26, n\_neighbors=20;; score=0.600 total time=0.0s  
 [CV 5/5; 614/1980] START leaf\_size=26, n\_neighbors=20...  
 [CV 2/5; 616/1980] END leaf\_size=26, n\_neighbors=22;; score=0.587 total time=0.0s  
 [CV 3/5; 616/1980] START leaf\_size=26, n\_neighbors=22...  
 [CV 4/5; 610/1980] END leaf\_size=26, n\_neighbors=16;; score=0.584 total time=0.0s  
 [CV 5/5; 610/1980] START leaf\_size=26, n\_neighbors=16...  
 [CV 5/5; 611/1980] END leaf\_size=26, n\_neighbors=17;; score=0.610 total time=0.0s  
 [CV 1/5; 612/1980] START leaf\_size=26, n\_neighbors=18...  
 [CV 5/5; 607/1980] END leaf\_size=26, n\_neighbors=13;; score=0.591 total time=0.0s  
 [CV 1/5; 608/1980] START leaf\_size=26, n\_neighbors=14...  
 [CV 1/5; 600/1980] END leaf\_size=26, n\_neighbors=6;; score=0.570 total time=0.0s  
 [CV 3/5; 613/1980] END leaf\_size=26, n\_neighbors=19;; score=0.551 total time=0.0s  
 [CV 4/5; 613/1980] START leaf\_size=26, n\_neighbors=19...  
 [CV 4/5; 604/1980] END leaf\_size=26, n\_neighbors=10;; score=0.597 total time=0.0s  
 [CV 5/5; 604/1980] START leaf\_size=26, n\_neighbors=10...  
 [CV 5/5; 617/1980] START leaf\_size=26, n\_neighbors=23...  
 [CV 1/5; 609/1980] END leaf\_size=26, n\_neighbors=15;; score=0.637 total time=0.0s

[CV 2/5; 609/1980] START leaf\_size=26, n\_neighbors=15...  
 [CV 1/5; 606/1980] END leaf\_size=26, n\_neighbors=12;; score=0.648 total time=0.0s  
 [CV 2/5; 606/1980] START leaf\_size=26, n\_neighbors=12...  
 [CV 5/5; 614/1980] END leaf\_size=26, n\_neighbors=20;; score=0.632 total time=0.0s  
 [CV 1/5; 615/1980] START leaf\_size=26, n\_neighbors=21...  
 [CV 3/5; 616/1980] END leaf\_size=26, n\_neighbors=22;; score=0.555 total time=0.0s  
 [CV 4/5; 616/1980] START leaf\_size=26, n\_neighbors=22...  
 [CV 5/5; 610/1980] END leaf\_size=26, n\_neighbors=16;; score=0.621 total time=0.0s  
 [CV 1/5; 611/1980] START leaf\_size=26, n\_neighbors=17...  
 [CV 1/5; 608/1980] END leaf\_size=26, n\_neighbors=14;; score=0.644 total time=0.0s  
 [CV 3/5; 619/1980] START leaf\_size=26, n\_neighbors=25...  
 [CV 1/5; 612/1980] END leaf\_size=26, n\_neighbors=18;; score=0.635 total time=0.0s  
 [CV 2/5; 612/1980] START leaf\_size=26, n\_neighbors=18...  
 [CV 5/5; 604/1980] END leaf\_size=26, n\_neighbors=10;; score=0.615 total time=0.0s  
 [CV 4/5; 613/1980] END leaf\_size=26, n\_neighbors=19;; score=0.589 total time=0.0s  
 [CV 5/5; 613/1980] START leaf\_size=26, n\_neighbors=19...  
 [CV 5/5; 617/1980] END leaf\_size=26, n\_neighbors=23;; score=0.643 total time=0.0s  
 [CV 1/5; 618/1980] START leaf\_size=26, n\_neighbors=24...  
 [CV 2/5; 606/1980] END leaf\_size=26, n\_neighbors=12;; score=0.581 total time=0.0s  
 [CV 3/5; 606/1980] START leaf\_size=26, n\_neighbors=12...  
 [CV 2/5; 609/1980] END leaf\_size=26, n\_neighbors=15;; score=0.570 total time=0.0s  
 [CV 1/5; 621/1980] START leaf\_size=26,  
 n\_neighbors=27...[CV 3/5; 609/1980] START leaf\_size=26,  
 n\_neighbors=15...  
  
 [CV 1/5; 615/1980] END leaf\_size=26, n\_neighbors=21;; score=0.626 total time=0.0s  
 [CV 1/5; 611/1980] END leaf\_size=26, n\_neighbors=17;; score=0.631 total time=0.0s  
 [CV 2/5; 615/1980] START leaf\_size=26, n\_neighbors=21...  
 [CV 2/5; 611/1980] START leaf\_size=26, n\_neighbors=17...  
 [CV 4/5; 616/1980] END leaf\_size=26, n\_neighbors=22;; score=0.600 total time=0.0s  
 [CV 5/5; 616/1980] START leaf\_size=26, n\_neighbors=22...  
 [CV 3/5; 619/1980] END leaf\_size=26, n\_neighbors=25;; score=0.557 total time=0.0s  
 [CV 2/5; 612/1980] END leaf\_size=26, n\_neighbors=18;; score=0.590 total time=0.0s

[CV 3/5; 612/1980] START leaf\_size=26, n\_neighbors=18...

[CV 4/5; 619/1980] START leaf\_size=26, n\_neighbors=25...

[CV 5/5; 613/1980] END leaf\_size=26, n\_neighbors=19;; score=0.626 total time=0.0s

[CV 1/5; 614/1980] START leaf\_size=26, n\_neighbors=20...

[CV 1/5; 618/1980] END leaf\_size=26, n\_neighbors=24;; score=0.646 total time=0.0s

[CV 2/5; 618/1980] START leaf\_size=26, n\_neighbors=24...

[CV 3/5; 606/1980] END leaf\_size=26, n\_neighbors=12;; score=0.546 total time=0.0s

[CV 3/5; 609/1980] END leaf\_size=26, n\_neighbors=15;; score=0.557 total time=0.0s

[CV 4/5; 609/1980] START leaf\_size=26, n\_neighbors=15...

[CV 2/5; 615/1980] END leaf\_size=26, n\_neighbors=21;; score=0.581 total time=0.0s

[CV 3/5; 615/1980] START leaf\_size=26,  
n\_neighbors=21...[CV 4/5; 622/1980] START leaf\_size=26,  
n\_neighbors=28...

[CV 2/5; 611/1980] END leaf\_size=26, n\_neighbors=17;; score=0.568 total time=0.0s

[CV 1/5; 621/1980] END leaf\_size=26, n\_neighbors=27;; score=0.650 total time=0.0s

[CV 2/5; 621/1980] START leaf\_size=26, n\_neighbors=27...

[CV 2/5; 624/1980] START leaf\_size=26, n\_neighbors=30...

[CV 3/5; 612/1980] END leaf\_size=26, n\_neighbors=18;; score=0.555 total time=0.0s

[CV 4/5; 612/1980] START leaf\_size=26, n\_neighbors=18...

[CV 5/5; 616/1980] END leaf\_size=26, n\_neighbors=22;; score=0.628 total time=0.0s

[CV 1/5; 617/1980] START leaf\_size=26, n\_neighbors=23...

[CV 4/5; 619/1980] END leaf\_size=26, n\_neighbors=25;; score=0.587 total time=0.0s

[CV 5/5; 619/1980] START leaf\_size=26, n\_neighbors=25...

[CV 1/5; 614/1980] END leaf\_size=26, n\_neighbors=20;; score=0.618 total time=0.0s

[CV 2/5; 614/1980] START leaf\_size=26, n\_neighbors=20...

[CV 2/5; 618/1980] END leaf\_size=26, n\_neighbors=24;; score=0.596 total time=0.0s

[CV 3/5; 618/1980] START leaf\_size=26, n\_neighbors=24...

[CV 3/5; 615/1980] END leaf\_size=26, n\_neighbors=21;; score=0.559 total time=0.0s

[CV 4/5; 615/1980] START leaf\_size=26, n\_neighbors=21...

[CV 5/5; 619/1980] END leaf\_size=26, n\_neighbors=25;; score=0.647 total time=0.0s

[CV 4/5; 612/1980] END leaf\_size=26, n\_neighbors=18;; score=0.600 total time=0.0s

```

[CV 1/5; 620/1980] START leaf_size=26, n_neighbors=26...
[CV 5/5; 612/1980] START leaf_size=26, n_neighbors=18...
[CV 2/5; 621/1980] END leaf_size=26, n_neighbors=27;;, score=0.594 total time=
0.0s
[CV 3/5; 621/1980] START leaf_size=26, n_neighbors=27...
[CV 4/5; 622/1980] END leaf_size=26, n_neighbors=28;;, score=0.597 total time=
0.0s
[CV 5/5; 622/1980] START leaf_size=26, n_neighbors=28...
[CV 2/5; 624/1980] END leaf_size=26, n_neighbors=30;;, score=0.607 total time=
0.0s[CV 1/5; 617/1980] END leaf_size=26, n_neighbors=23;;, score=0.646 total
time= 0.0s

[CV 2/5; 617/1980] START leaf_size=26, n_neighbors=23...
[CV 3/5; 624/1980] START leaf_size=26, n_neighbors=30...
[CV 2/5; 614/1980] END leaf_size=26, n_neighbors=20;;, score=0.583 total time=
0.0s
[CV 3/5; 614/1980] START leaf_size=26, n_neighbors=20...
[CV 3/5; 618/1980] END leaf_size=26, n_neighbors=24;;, score=0.564 total time=
0.0s
[CV 4/5; 618/1980] START leaf_size=26, n_neighbors=24...
[CV 4/5; 609/1980] END leaf_size=26, n_neighbors=15;;, score=0.584 total time=
0.0s
[CV 4/5; 615/1980] END leaf_size=26, n_neighbors=21;;, score=0.606 total time=
0.0s[CV 5/5; 625/1980] START leaf_size=26,
n_neighbors=31...

[CV 5/5; 615/1980] START leaf_size=26, n_neighbors=21...
[CV 1/5; 620/1980] END leaf_size=26, n_neighbors=26;;, score=0.639 total time=
0.0s
[CV 2/5; 620/1980] START leaf_size=26, n_neighbors=26...
[CV 5/5; 612/1980] END leaf_size=26, n_neighbors=18;;, score=0.617 total time=
0.0s
[CV 3/5; 627/1980] START leaf_size=26, n_neighbors=33...
[CV 3/5; 621/1980] END leaf_size=26, n_neighbors=27;;, score=0.568 total time=
0.0s
[CV 4/5; 621/1980] START leaf_size=26, n_neighbors=27...
[CV 2/5; 617/1980] END leaf_size=26, n_neighbors=23;;, score=0.583 total time=
0.0s
[CV 3/5; 617/1980] START leaf_size=26, n_neighbors=23...
[CV 3/5; 624/1980] END leaf_size=26, n_neighbors=30;;, score=0.579 total time=
0.0s
[CV 4/5; 624/1980] START leaf_size=26,
n_neighbors=30...[CV 3/5; 614/1980] END leaf_size=26,
n_neighbors=20;;, score=0.553 total time= 0.0s

[CV 1/5; 629/1980] START leaf_size=26, n_neighbors=35...
[CV 5/5; 622/1980] END leaf_size=26, n_neighbors=28;;, score=0.641 total time=
0.0s

```

[CV 1/5; 623/1980] START leaf\_size=26, n\_neighbors=29...  
 [CV 5/5; 615/1980] END leaf\_size=26, n\_neighbors=21;; score=0.621 total time=0.0s  
 [CV 1/5; 616/1980] START leaf\_size=26, n\_neighbors=22...  
 [CV 2/5; 620/1980] END leaf\_size=26, n\_neighbors=26;; score=0.600 total time=0.0s  
 [CV 3/5; 620/1980] START leaf\_size=26, n\_neighbors=26...  
 [CV 4/5; 618/1980] END leaf\_size=26, n\_neighbors=24;; score=0.597 total time=0.0s  
 [CV 5/5; 618/1980] START leaf\_size=26, n\_neighbors=24...  
 [CV 5/5; 625/1980] END leaf\_size=26, n\_neighbors=31;; score=0.634 total time=0.0s  
 [CV 1/5; 626/1980] START leaf\_size=26, n\_neighbors=32...  
 [CV 3/5; 627/1980] END leaf\_size=26, n\_neighbors=33;; score=0.570 total time=0.0s  
 [CV 4/5; 627/1980] START leaf\_size=26, n\_neighbors=33...  
 [CV 4/5; 621/1980] END leaf\_size=26, n\_neighbors=27;; score=0.593 total time=0.0s  
 [CV 3/5; 617/1980] END leaf\_size=26, n\_neighbors=23;; score=0.557 total time=0.0s  
 [CV 5/5; 621/1980] START leaf\_size=26, n\_neighbors=27...  
  
 [CV 4/5; 617/1980] START leaf\_size=26, n\_neighbors=23...  
 [CV 4/5; 624/1980] END leaf\_size=26, n\_neighbors=30;; score=0.595 total time=0.0s  
 [CV 5/5; 624/1980] START leaf\_size=26, n\_neighbors=30...  
 [CV 1/5; 629/1980] END leaf\_size=26, n\_neighbors=35;; score=0.650 total time=0.0s  
 [CV 2/5; 629/1980] START leaf\_size=26, n\_neighbors=35...  
 [CV 1/5; 623/1980] END leaf\_size=26, n\_neighbors=29;; score=0.646 total time=0.0s  
 [CV 2/5; 623/1980] START leaf\_size=26, n\_neighbors=29...  
 [CV 1/5; 616/1980] END leaf\_size=26, n\_neighbors=22;; score=0.622 total time=0.0s  
 [CV 3/5; 620/1980] END leaf\_size=26, n\_neighbors=26;; score=0.564 total time=0.0s  
 [CV 4/5; 620/1980] START leaf\_size=26, n\_neighbors=26...  
 [CV 4/5; 630/1980] START leaf\_size=26, n\_neighbors=36...  
 [CV 5/5; 618/1980] END leaf\_size=26, n\_neighbors=24;; score=0.647 total time=0.0s  
 [CV 1/5; 619/1980] START leaf\_size=26, n\_neighbors=25...  
 [CV 4/5; 627/1980] END leaf\_size=26, n\_neighbors=33;; score=0.597 total time=0.0s  
 [CV 5/5; 627/1980] START leaf\_size=26, n\_neighbors=33...  
 [CV 5/5; 621/1980] END leaf\_size=26, n\_neighbors=27;; score=0.630 total time=0.0s  
 [CV 1/5; 622/1980] START leaf\_size=26, n\_neighbors=28...  
 [CV 2/5; 629/1980] END leaf\_size=26, n\_neighbors=35;; score=0.607 total time=



0.0s  
 [CV 3/5; 629/1980] START leaf\_size=26, n\_neighbors=35...  
 [CV 5/5; 624/1980] END leaf\_size=26, n\_neighbors=30;; score=0.632 total time=  
 0.0s  
 [CV 1/5; 625/1980] START leaf\_size=26, n\_neighbors=31...  
 [CV 2/5; 623/1980] END leaf\_size=26, n\_neighbors=29;; score=0.600 total time=  
 0.0s  
 [CV 3/5; 623/1980] START leaf\_size=26, n\_neighbors=29...  
 [CV 4/5; 620/1980] END leaf\_size=26, n\_neighbors=26;; score=0.593 total time=  
 0.0s  
 [CV 5/5; 620/1980] START leaf\_size=26, n\_neighbors=26...  
 [CV 4/5; 630/1980] END leaf\_size=26, n\_neighbors=36;; score=0.600 total time=  
 0.0s  
 [CV 5/5; 630/1980] START leaf\_size=26, n\_neighbors=36...  
 [CV 1/5; 626/1980] END leaf\_size=26, n\_neighbors=32;; score=0.639 total time=  
 0.1s  
 [CV 2/5; 626/1980] START leaf\_size=26, n\_neighbors=32...  
 [CV 4/5; 617/1980] END leaf\_size=26, n\_neighbors=23;; score=0.600 total time=  
 0.0s  
 [CV 1/5; 619/1980] END leaf\_size=26, n\_neighbors=25;; score=0.646 total time=  
 0.0s  
 [CV 2/5; 619/1980] START leaf\_size=26, n\_neighbors=25...  
 [CV 5/5; 627/1980] END leaf\_size=26, n\_neighbors=33;; score=0.630 total time=  
 0.0s  
 [CV 1/5; 628/1980] START leaf\_size=26,  
 n\_neighbors=34...[CV 2/5; 632/1980] START leaf\_size=26,  
 n\_neighbors=38...  
  
 [CV 1/5; 622/1980] END leaf\_size=26, n\_neighbors=28;; score=0.650 total time=  
 0.0s  
 [CV 2/5; 622/1980] START leaf\_size=26, n\_neighbors=28...  
 [CV 3/5; 629/1980] END leaf\_size=26, n\_neighbors=35;; score=0.572 total time=  
 0.0s  
 [CV 4/5; 629/1980] START leaf\_size=26, n\_neighbors=35...  
 [CV 5/5; 620/1980] END leaf\_size=26, n\_neighbors=26;; score=0.628 total time=  
 0.0s  
 [CV 1/5; 625/1980] END leaf\_size=26, n\_neighbors=31;; score=0.644 total time=  
 0.0s  
 [CV 2/5; 625/1980] START leaf\_size=26, n\_neighbors=31...  
 [CV 3/5; 623/1980] END leaf\_size=26, n\_neighbors=29;; score=0.577 total time=  
 0.0s  
 [CV 4/5; 623/1980] START leaf\_size=26, n\_neighbors=29...  
 [CV 5/5; 633/1980] START leaf\_size=26, n\_neighbors=39...  
 [CV 5/5; 630/1980] END leaf\_size=26, n\_neighbors=36;; score=0.628 total time=  
 0.0s  
 [CV 1/5; 631/1980] START leaf\_size=26, n\_neighbors=37...  
 [CV 1/5; 628/1980] END leaf\_size=26, n\_neighbors=34;; score=0.644 total time=  
 0.0s

[CV 2/5; 628/1980] START leaf\_size=26, n\_neighbors=34...  
 [CV 2/5; 626/1980] END leaf\_size=26, n\_neighbors=32;; score=0.605 total time=0.0s  
 [CV 3/5; 626/1980] START leaf\_size=26, n\_neighbors=32...  
 [CV 2/5; 619/1980] END leaf\_size=26, n\_neighbors=25;; score=0.598 total time=0.0s  
 [CV 3/5; 635/1980] START leaf\_size=26, n\_neighbors=41...  
 [CV 2/5; 622/1980] END leaf\_size=26, n\_neighbors=28;; score=0.598 total time=0.0s  
 [CV 4/5; 629/1980] END leaf\_size=26, n\_neighbors=35;; score=0.604 total time= 0.0s  
  
 [CV 5/5; 629/1980] START leaf\_size=26, n\_neighbors=35...  
 [CV 3/5; 622/1980] START leaf\_size=26, n\_neighbors=28...  
 [CV 2/5; 632/1980] END leaf\_size=26, n\_neighbors=38;; score=0.613 total time=0.0s  
 [CV 3/5; 632/1980] START leaf\_size=26, n\_neighbors=38...  
 [CV 5/5; 633/1980] END leaf\_size=26, n\_neighbors=39;; score=0.636 total time=0.0s  
 [CV 1/5; 634/1980] START leaf\_size=26, n\_neighbors=40...  
 [CV 2/5; 625/1980] END leaf\_size=26, n\_neighbors=31;; score=0.603 total time=0.0s  
 [CV 3/5; 625/1980] START leaf\_size=26, n\_neighbors=31...  
 [CV 4/5; 623/1980] END leaf\_size=26, n\_neighbors=29;; score=0.600 total time=0.0s  
 [CV 5/5; 623/1980] START leaf\_size=26, n\_neighbors=29...  
 [CV 1/5; 631/1980] END leaf\_size=26, n\_neighbors=37;; score=0.657 total time=0.0s  
 [CV 2/5; 631/1980] START leaf\_size=26, n\_neighbors=37...  
 [CV 2/5; 628/1980] END leaf\_size=26, n\_neighbors=34;; score=0.600 total time=0.0s  
 [CV 3/5; 628/1980] START leaf\_size=26, n\_neighbors=34...  
 [CV 3/5; 626/1980] END leaf\_size=26, n\_neighbors=32;; score=0.577 total time=0.0s  
 [CV 4/5; 626/1980] START leaf\_size=26, n\_neighbors=32...  
 [CV 5/5; 629/1980] END leaf\_size=26, n\_neighbors=35;; score=0.639 total time=0.0s  
 [CV 1/5; 630/1980] START leaf\_size=26, n\_neighbors=36...  
 [CV 3/5; 622/1980] END leaf\_size=26, n\_neighbors=28;; score=0.568 total time=0.0s  
 [CV 3/5; 635/1980] END leaf\_size=26, n\_neighbors=41;; score=0.568 total time=0.0s  
 [CV 4/5; 635/1980] START leaf\_size=26, n\_neighbors=41...  
 [CV 1/5; 634/1980] END leaf\_size=26, n\_neighbors=40;; score=0.661 total time=0.0s  
 [CV 2/5; 634/1980] START leaf\_size=26, n\_neighbors=40...  
 [CV 3/5; 632/1980] END leaf\_size=26, n\_neighbors=38;; score=0.566 total time=0.0s  
 [CV 3/5; 625/1980] END leaf\_size=26, n\_neighbors=31;; score=0.570 total time= 0.0s

[CV 4/5; 632/1980] START leaf\_size=26,  
n\_neighbors=38...[CV 4/5; 625/1980] START leaf\_size=26,  
n\_neighbors=31...

[CV 1/5; 637/1980] START leaf\_size=26, n\_neighbors=43...  
[CV 3/5; 628/1980] END leaf\_size=26, n\_neighbors=34;; score=0.577 total time=  
0.0s  
[CV 4/5; 628/1980] START leaf\_size=26, n\_neighbors=34...  
[CV 2/5; 631/1980] END leaf\_size=26, n\_neighbors=37;; score=0.607 total time=  
0.0s  
[CV 3/5; 631/1980] START leaf\_size=26, n\_neighbors=37...  
[CV 5/5; 623/1980] END leaf\_size=26, n\_neighbors=29;; score=0.639 total time=  
0.0s  
[CV 1/5; 624/1980] START leaf\_size=26, n\_neighbors=30...  
[CV 1/5; 630/1980] END leaf\_size=26, n\_neighbors=36;; score=0.644 total time=  
0.0s  
[CV 2/5; 630/1980] START leaf\_size=26, n\_neighbors=36...  
[CV 4/5; 635/1980] END leaf\_size=26, n\_neighbors=41;; score=0.610 total time=  
0.0s  
[CV 5/5; 635/1980] START leaf\_size=26, n\_neighbors=41...  
[CV 4/5; 625/1980] END leaf\_size=26, n\_neighbors=31;; score=0.595 total time=  
0.0s  
[CV 2/5; 634/1980] END leaf\_size=26, n\_neighbors=40;; score=0.611 total time=  
0.0s  
[CV 3/5; 634/1980] START leaf\_size=26, n\_neighbors=40...  
[CV 4/5; 638/1980] START leaf\_size=26, n\_neighbors=44...  
[CV 4/5; 628/1980] END leaf\_size=26, n\_neighbors=34;; score=0.597 total time=  
0.0s  
[CV 5/5; 628/1980] START leaf\_size=26, n\_neighbors=34...  
[CV 1/5; 637/1980] END leaf\_size=26, n\_neighbors=43;; score=0.674 total time=  
0.0s  
[CV 2/5; 637/1980] START leaf\_size=26, n\_neighbors=43...  
[CV 4/5; 632/1980] END leaf\_size=26, n\_neighbors=38;; score=0.602 total time=  
0.0s[CV 4/5; 626/1980] END leaf\_size=26, n\_neighbors=32;; score=0.593 total  
time= 0.0s  
[CV 5/5; 626/1980] START leaf\_size=26, n\_neighbors=32...  
[CV 3/5; 631/1980] END leaf\_size=26, n\_neighbors=37;; score=0.568 total time=  
0.0s

[CV 5/5; 632/1980] START leaf\_size=26, n\_neighbors=38...  
[CV 4/5; 631/1980] START leaf\_size=26, n\_neighbors=37...  
[CV 2/5; 630/1980] END leaf\_size=26, n\_neighbors=36;; score=0.616 total time=  
0.0s  
[CV 3/5; 630/1980] START leaf\_size=26, n\_neighbors=36...  
[CV 5/5; 635/1980] END leaf\_size=26, n\_neighbors=41;; score=0.619 total time=  
0.0s  
[CV 1/5; 636/1980] START leaf\_size=26, n\_neighbors=42...

[CV 3/5; 634/1980] END leaf\_size=26, n\_neighbors=40;; score=0.572 total time=0.0s  
 [CV 4/5; 634/1980] START leaf\_size=26, n\_neighbors=40...  
 [CV 1/5; 624/1980] END leaf\_size=26, n\_neighbors=30;; score=0.639 total time=0.0s  
 [CV 2/5; 640/1980] START leaf\_size=26, n\_neighbors=46...  
 [CV 4/5; 638/1980] END leaf\_size=26, n\_neighbors=44;; score=0.597 total time=0.0s  
 [CV 5/5; 638/1980] START leaf\_size=26, n\_neighbors=44...  
 [CV 5/5; 628/1980] END leaf\_size=26, n\_neighbors=34;; score=0.634 total time=0.0s  
 [CV 5/5; 641/1980] START leaf\_size=26, n\_neighbors=47...  
 [CV 5/5; 626/1980] END leaf\_size=26, n\_neighbors=32;; score=0.628 total time=0.0s  
 [CV 2/5; 637/1980] END leaf\_size=26, n\_neighbors=43;; score=0.616 total time=0.0s  
 [CV 1/5; 627/1980] START leaf\_size=26, n\_neighbors=33...  
 [CV 3/5; 637/1980] START leaf\_size=26, n\_neighbors=43...  
 [CV 4/5; 631/1980] END leaf\_size=26, n\_neighbors=37;; score=0.610 total time=0.0s  
 [CV 5/5; 631/1980] START leaf\_size=26, n\_neighbors=37...  
 [CV 3/5; 630/1980] END leaf\_size=26, n\_neighbors=36;; score=0.566 total time=0.0s  
 [CV 3/5; 643/1980] START leaf\_size=26, n\_neighbors=49...  
 [CV 4/5; 634/1980] END leaf\_size=26, n\_neighbors=40;; score=0.595 total time=0.0s  
 [CV 5/5; 634/1980] START leaf\_size=26, n\_neighbors=40...  
 [CV 1/5; 636/1980] END leaf\_size=26, n\_neighbors=42;; score=0.667 total time=0.0s  
 [CV 2/5; 636/1980] START leaf\_size=26, n\_neighbors=42...  
 [CV 5/5; 632/1980] END leaf\_size=26, n\_neighbors=38;; score=0.634 total time=0.0s  
 [CV 1/5; 633/1980] START leaf\_size=26, n\_neighbors=39...  
 [CV 5/5; 638/1980] END leaf\_size=26, n\_neighbors=44;; score=0.615 total time=0.0s  
 [CV 1/5; 639/1980] START leaf\_size=26, n\_neighbors=45...  
 [CV 5/5; 641/1980] END leaf\_size=26, n\_neighbors=47;; score=0.623 total time=0.0s  
 [CV 1/5; 642/1980] START leaf\_size=26, n\_neighbors=48...  
 [CV 2/5; 640/1980] END leaf\_size=26, n\_neighbors=46;; score=0.616 total time=0.0s  
 [CV 3/5; 640/1980] START leaf\_size=26, n\_neighbors=46...  
 [CV 3/5; 637/1980] END leaf\_size=26, n\_neighbors=43;; score=0.566 total time=0.0s  
 [CV 4/5; 637/1980] START leaf\_size=26, n\_neighbors=43...  
 [CV 1/5; 627/1980] END leaf\_size=26, n\_neighbors=33;; score=0.646 total time=0.0s  
 [CV 2/5; 627/1980] START leaf\_size=26, n\_neighbors=33...

[CV 5/5; 631/1980] END leaf\_size=26, n\_neighbors=37;; score=0.628 total time=0.0s  
 [CV 1/5; 632/1980] START leaf\_size=26, n\_neighbors=38...  
 [CV 5/5; 634/1980] END leaf\_size=26, n\_neighbors=40;; score=0.617 total time=0.0s  
 [CV 1/5; 635/1980] START leaf\_size=26, n\_neighbors=41...  
 [CV 3/5; 643/1980] END leaf\_size=26, n\_neighbors=49;; score=0.568 total time=0.0s  
 [CV 4/5; 643/1980] START leaf\_size=26, n\_neighbors=49...  
 [CV 2/5; 636/1980] END leaf\_size=26, n\_neighbors=42;; score=0.618 total time=0.0s  
 [CV 3/5; 636/1980] START leaf\_size=26, n\_neighbors=42...  
 [CV 1/5; 633/1980] END leaf\_size=26, n\_neighbors=39;; score=0.654 total time=0.0s  
 [CV 2/5; 633/1980] START leaf\_size=26, n\_neighbors=39...  
 [CV 1/5; 639/1980] END leaf\_size=26, n\_neighbors=45;; score=0.678 total time=0.0s  
 [CV 2/5; 639/1980] START leaf\_size=26, n\_neighbors=45...  
 [CV 1/5; 642/1980] END leaf\_size=26, n\_neighbors=48;; score=0.672 total time=0.0s  
 [CV 2/5; 642/1980] START leaf\_size=26, n\_neighbors=48...  
 [CV 4/5; 637/1980] END leaf\_size=26, n\_neighbors=43;; score=0.600 total time=0.0s  
 [CV 5/5; 637/1980] START leaf\_size=26, n\_neighbors=43...  
 [CV 1/5; 632/1980] END leaf\_size=26, n\_neighbors=38;; score=0.652 total time=0.0s  
 [CV 1/5; 635/1980] END leaf\_size=26, n\_neighbors=41;; score=0.665 total time=0.0s  
 [CV 2/5; 635/1980] START leaf\_size=26, n\_neighbors=41...  
 [CV 3/5; 640/1980] END leaf\_size=26, n\_neighbors=46;; score=0.572 total time=0.0s  
 [CV 4/5; 640/1980] START leaf\_size=26, n\_neighbors=46...  
 [CV 4/5; 643/1980] END leaf\_size=26, n\_neighbors=49;; score=0.593 total time=0.0s  
 [CV 5/5; 643/1980] START leaf\_size=26, n\_neighbors=49...  
 [CV 1/5; 645/1980] START leaf\_size=26, n\_neighbors=51...  
 [CV 3/5; 636/1980] END leaf\_size=26, n\_neighbors=42;; score=0.564 total time=0.0s  
 [CV 4/5; 636/1980] START leaf\_size=26, n\_neighbors=42...  
 [CV 2/5; 627/1980] END leaf\_size=26, n\_neighbors=33;; score=0.607 total time=0.1s  
 [CV 2/5; 639/1980] END leaf\_size=26, n\_neighbors=45;; score=0.611 total time=0.0s  
 [CV 3/5; 639/1980] START leaf\_size=26, n\_neighbors=45...  
 [CV 4/5; 646/1980] START leaf\_size=26, n\_neighbors=52...  
 [CV 2/5; 642/1980] END leaf\_size=26, n\_neighbors=48;; score=0.609 total time=0.0s  
 [CV 3/5; 642/1980] START leaf\_size=26, n\_neighbors=48...

[CV 5/5; 637/1980] END leaf\_size=26, n\_neighbors=43;; score=0.615 total time=0.0s  
 [CV 1/5; 638/1980] START leaf\_size=26, n\_neighbors=44...  
 [CV 2/5; 635/1980] END leaf\_size=26, n\_neighbors=41;; score=0.618 total time=0.0s  
 [CV 2/5; 648/1980] START leaf\_size=26, n\_neighbors=54...  
 [CV 5/5; 643/1980] END leaf\_size=26, n\_neighbors=49;; score=0.623 total time=0.0s  
 [CV 1/5; 644/1980] START leaf\_size=26, n\_neighbors=50...  
 [CV 2/5; 633/1980] END leaf\_size=26, n\_neighbors=39;; score=0.609 total time=0.0s  
 [CV 3/5; 633/1980] START leaf\_size=26, n\_neighbors=39...  
 [CV 1/5; 645/1980] END leaf\_size=26, n\_neighbors=51;; score=0.680 total time=0.0s  
 [CV 2/5; 645/1980] START leaf\_size=26, n\_neighbors=51...  
 [CV 4/5; 636/1980] END leaf\_size=26, n\_neighbors=42;; score=0.608 total time=0.0s  
 [CV 5/5; 636/1980] START leaf\_size=26, n\_neighbors=42...  
 [CV 4/5; 640/1980] END leaf\_size=26, n\_neighbors=46;; score=0.597 total time=0.0s  
 [CV 5/5; 640/1980] START leaf\_size=26, n\_neighbors=46...  
 [CV 3/5; 639/1980] END leaf\_size=26, n\_neighbors=45;; score=0.575 total time=0.0s  
 [CV 4/5; 639/1980] START leaf\_size=26, n\_neighbors=45...  
 [CV 3/5; 642/1980] END leaf\_size=26, n\_neighbors=48;; score=0.562 total time=0.0s  
 [CV 4/5; 642/1980] START leaf\_size=26, n\_neighbors=48...  
 [CV 4/5; 646/1980] END leaf\_size=26, n\_neighbors=52;; score=0.597 total time=0.0s  
 [CV 5/5; 646/1980] START leaf\_size=26, n\_neighbors=52...  
 [CV 1/5; 638/1980] END leaf\_size=26, n\_neighbors=44;; score=0.667 total time=0.0s  
 [CV 2/5; 638/1980] START leaf\_size=26, n\_neighbors=44...  
 [CV 2/5; 648/1980] END leaf\_size=26, n\_neighbors=54;; score=0.618 total time=0.0s  
 [CV 3/5; 648/1980] START leaf\_size=26, n\_neighbors=54...  
 [CV 1/5; 644/1980] END leaf\_size=26, n\_neighbors=50;; score=0.678 total time=0.0s  
 [CV 2/5; 644/1980] START leaf\_size=26, n\_neighbors=50...  
 [CV 5/5; 636/1980] END leaf\_size=26, n\_neighbors=42;; score=0.621 total time=0.0s  
 [CV 5/5; 649/1980] START leaf\_size=26, n\_neighbors=55...  
 [CV 2/5; 645/1980] END leaf\_size=26, n\_neighbors=51;; score=0.618 total time=0.0s  
 [CV 3/5; 645/1980] START leaf\_size=26, n\_neighbors=51...  
 [CV 3/5; 633/1980] END leaf\_size=26, n\_neighbors=39;; score=0.575 total time=0.0s  
 [CV 4/5; 633/1980] START leaf\_size=26, n\_neighbors=39...

[CV 4/5; 639/1980] END leaf\_size=26, n\_neighbors=45;; score=0.600 total time=0.0s  
 [CV 5/5; 639/1980] START leaf\_size=26, n\_neighbors=45...  
 [CV 4/5; 642/1980] END leaf\_size=26, n\_neighbors=48;; score=0.589 total time=0.0s  
 [CV 5/5; 642/1980] START leaf\_size=26, n\_neighbors=48...  
 [CV 2/5; 638/1980] END leaf\_size=26, n\_neighbors=44;; score=0.613 total time=0.0s  
 [CV 3/5; 638/1980] START leaf\_size=26, n\_neighbors=44...  
 [CV 5/5; 640/1980] END leaf\_size=26, n\_neighbors=46;; score=0.619 total time=0.0s  
 [CV 1/5; 641/1980] START leaf\_size=26, n\_neighbors=47...  
 [CV 5/5; 646/1980] END leaf\_size=26, n\_neighbors=52;; score=0.619 total time=0.0s  
 [CV 1/5; 647/1980] START leaf\_size=26, n\_neighbors=53...  
 [CV 3/5; 648/1980] END leaf\_size=26, n\_neighbors=54;; score=0.562 total time=0.0s  
 [CV 4/5; 648/1980] START leaf\_size=26, n\_neighbors=54...  
 [CV 2/5; 644/1980] END leaf\_size=26, n\_neighbors=50;; score=0.603 total time=0.0s  
 [CV 3/5; 644/1980] START leaf\_size=26, n\_neighbors=50...  
 [CV 5/5; 649/1980] END leaf\_size=26, n\_neighbors=55;; score=0.608 total time=0.0s  
 [CV 1/5; 650/1980] START leaf\_size=26, n\_neighbors=56...  
 [CV 3/5; 645/1980] END leaf\_size=26, n\_neighbors=51;; score=0.566 total time=0.0s  
 [CV 4/5; 645/1980] START leaf\_size=26, n\_neighbors=51...  
 [CV 5/5; 639/1980] END leaf\_size=26, n\_neighbors=45;; score=0.619 total time=0.0s  
 [CV 1/5; 640/1980] START leaf\_size=26, n\_neighbors=46...  
 [CV 5/5; 642/1980] END leaf\_size=26, n\_neighbors=48;; score=0.630 total time=0.0s  
 [CV 1/5; 643/1980] START leaf\_size=26, n\_neighbors=49...  
 [CV 4/5; 633/1980] END leaf\_size=26, n\_neighbors=39;; score=0.602 total time=0.0s  
 [CV 3/5; 651/1980] START leaf\_size=26, n\_neighbors=57...  
 [CV 4/5; 648/1980] END leaf\_size=26, n\_neighbors=54;; score=0.595 total time=0.0s  
 [CV 5/5; 648/1980] START leaf\_size=26, n\_neighbors=54...  
 [CV 3/5; 638/1980] END leaf\_size=26, n\_neighbors=44;; score=0.570 total time=0.0s  
 [CV 3/5; 644/1980] END leaf\_size=26, n\_neighbors=50;; score=0.557 total time=0.0s  
 [CV 4/5; 644/1980] START leaf\_size=26, n\_neighbors=50...  
 [CV 1/5; 641/1980] END leaf\_size=26, n\_neighbors=47;; score=0.676 total time=0.0s  
 [CV 2/5; 641/1980] START leaf\_size=26, n\_neighbors=47...  
 [CV 1/5; 653/1980] START leaf\_size=26, n\_neighbors=59...

[CV 1/5; 647/1980] END leaf\_size=26, n\_neighbors=53;; score=0.678 total time=0.0s  
 [CV 2/5; 647/1980] START leaf\_size=26, n\_neighbors=53...  
 [CV 1/5; 640/1980] END leaf\_size=26, n\_neighbors=46;; score=0.672 total time=0.0s  
 [CV 1/5; 643/1980] END leaf\_size=26, n\_neighbors=49;; score=0.676 total time=0.0s  
 [CV 2/5; 643/1980] START leaf\_size=26, n\_neighbors=49...  
 [CV 4/5; 654/1980] START leaf\_size=26, n\_neighbors=60...  
 [CV 5/5; 648/1980] END leaf\_size=26, n\_neighbors=54;; score=0.608 total time=0.0s  
 [CV 1/5; 649/1980] START leaf\_size=26, n\_neighbors=55...  
 [CV 1/5; 650/1980] END leaf\_size=26, n\_neighbors=56;; score=0.670 total time=0.0s  
 [CV 2/5; 650/1980] START leaf\_size=26, n\_neighbors=56...  
 [CV 3/5; 651/1980] END leaf\_size=26, n\_neighbors=57;; score=0.559 total time=0.0s  
 [CV 4/5; 651/1980] START leaf\_size=26, n\_neighbors=57...  
 [CV 4/5; 645/1980] END leaf\_size=26, n\_neighbors=51;; score=0.602 total time=0.0s  
 [CV 4/5; 644/1980] END leaf\_size=26, n\_neighbors=50;; score=0.597 total time=0.0s  
 [CV 5/5; 645/1980] START leaf\_size=26, n\_neighbors=51...  
 [CV 5/5; 644/1980] START leaf\_size=26, n\_neighbors=50...  
 [CV 1/5; 653/1980] END leaf\_size=26, n\_neighbors=59;; score=0.670 total time=0.0s  
 [CV 2/5; 653/1980] START leaf\_size=26, n\_neighbors=59...  
 [CV 2/5; 647/1980] END leaf\_size=26, n\_neighbors=53;; score=0.611 total time=0.0s  
 [CV 3/5; 647/1980] START leaf\_size=26, n\_neighbors=53...  
 [CV 2/5; 641/1980] END leaf\_size=26, n\_neighbors=47;; score=0.611 total time=0.0s  
 [CV 3/5; 641/1980] START leaf\_size=26, n\_neighbors=47...  
 [CV 2/5; 643/1980] END leaf\_size=26, n\_neighbors=49;; score=0.622 total time=0.0s  
 [CV 4/5; 654/1980] END leaf\_size=26, n\_neighbors=60;; score=0.602 total time=0.0s  
 [CV 5/5; 654/1980] START leaf\_size=26, n\_neighbors=60...  
 [CV 2/5; 656/1980] START leaf\_size=26, n\_neighbors=62...  
 [CV 2/5; 650/1980] END leaf\_size=26, n\_neighbors=56;; score=0.609 total time=0.0s  
 [CV 3/5; 650/1980] START leaf\_size=26, n\_neighbors=56...  
 [CV 1/5; 649/1980] END leaf\_size=26, n\_neighbors=55;; score=0.667 total time=0.0s  
 [CV 2/5; 649/1980] START leaf\_size=26, n\_neighbors=55...  
 [CV 5/5; 644/1980] END leaf\_size=26, n\_neighbors=50;; score=0.619 total time=0.0s  
 [CV 4/5; 651/1980] END leaf\_size=26, n\_neighbors=57;; score=0.597 total time=



0.0s  
 [CV 5/5; 651/1980] START leaf\_size=26, n\_neighbors=57...  
 [CV 5/5; 657/1980] START leaf\_size=26, n\_neighbors=63...  
 [CV 5/5; 645/1980] END leaf\_size=26, n\_neighbors=51;; score=0.621 total time=  
 0.0s  
 [CV 1/5; 646/1980] START leaf\_size=26, n\_neighbors=52...  
 [CV 2/5; 653/1980] END leaf\_size=26, n\_neighbors=59;; score=0.609 total time=  
 0.0s  
 [CV 3/5; 653/1980] START leaf\_size=26, n\_neighbors=59...  
 [CV 3/5; 647/1980] END leaf\_size=26, n\_neighbors=53;; score=0.572 total time=  
 0.0s  
 [CV 4/5; 647/1980] START leaf\_size=26, n\_neighbors=53...  
 [CV 3/5; 641/1980] END leaf\_size=26, n\_neighbors=47;; score=0.572 total time=  
 0.0s  
 [CV 4/5; 641/1980] START leaf\_size=26, n\_neighbors=47...  
 [CV 5/5; 654/1980] END leaf\_size=26, n\_neighbors=60;; score=0.604 total time=  
 0.0s  
 [CV 1/5; 655/1980] START leaf\_size=26, n\_neighbors=61...  
 [CV 2/5; 656/1980] END leaf\_size=26, n\_neighbors=62;; score=0.603 total time=  
 0.0s  
 [CV 3/5; 656/1980] START leaf\_size=26, n\_neighbors=62...  
 [CV 3/5; 650/1980] END leaf\_size=26, n\_neighbors=56;; score=0.551 total time=  
 0.0s  
 [CV 4/5; 650/1980] START leaf\_size=26, n\_neighbors=56...  
 [CV 5/5; 651/1980] END leaf\_size=26, n\_neighbors=57;; score=0.610 total time=  
 0.0s  
 [CV 2/5; 649/1980] END leaf\_size=26, n\_neighbors=55;; score=0.618 total time=  
 0.0s  
 [CV 1/5; 652/1980] START leaf\_size=26, n\_neighbors=58...  
 [CV 3/5; 649/1980] START leaf\_size=26, n\_neighbors=55...  
 [CV 5/5; 657/1980] END leaf\_size=26, n\_neighbors=63;; score=0.615 total time=  
 0.0s  
 [CV 1/5; 658/1980] START leaf\_size=26, n\_neighbors=64...  
 [CV 3/5; 653/1980] END leaf\_size=26, n\_neighbors=59;; score=0.553 total time=  
 0.0s  
 [CV 4/5; 653/1980] START leaf\_size=26, n\_neighbors=59...  
 [CV 4/5; 647/1980] END leaf\_size=26, n\_neighbors=53;; score=0.600 total time=  
 0.0s  
 [CV 5/5; 647/1980] START leaf\_size=26, n\_neighbors=53...  
 [CV 1/5; 655/1980] END leaf\_size=26, n\_neighbors=61;; score=0.665 total time=  
 0.0s  
 [CV 2/5; 655/1980] START leaf\_size=26, n\_neighbors=61...  
 [CV 1/5; 646/1980] END leaf\_size=26, n\_neighbors=52;; score=0.676 total time=  
 0.0s  
 [CV 2/5; 646/1980] START leaf\_size=26, n\_neighbors=52...  
 [CV 3/5; 656/1980] END leaf\_size=26, n\_neighbors=62;; score=0.555 total time=  
 0.0s  
 [CV 4/5; 641/1980] END leaf\_size=26, n\_neighbors=47;; score=0.589 total time=

```

0.0s
[CV 4/5; 656/1980] START leaf_size=26, n_neighbors=62...
[CV 3/5; 659/1980] START leaf_size=26, n_neighbors=65...
[CV 4/5; 650/1980] END leaf_size=26, n_neighbors=56;; score=0.591 total time=
0.0s
[CV 5/5; 650/1980] START leaf_size=26, n_neighbors=56...
[CV 1/5; 652/1980] END leaf_size=26, n_neighbors=58;; score=0.665 total time=
0.0s
[CV 2/5; 652/1980] START leaf_size=26, n_neighbors=58...
[CV 3/5; 649/1980] END leaf_size=26, n_neighbors=55;; score=0.564 total time=
0.0s
[CV 4/5; 649/1980] START leaf_size=26, n_neighbors=55...
[CV 1/5; 658/1980] END leaf_size=26, n_neighbors=64;; score=0.663 total time=
0.0s
[CV 2/5; 658/1980] START leaf_size=26, n_neighbors=64...
[CV 4/5; 653/1980] END leaf_size=26, n_neighbors=59;; score=0.604 total time=
0.0s
[CV 5/5; 653/1980] START leaf_size=26, n_neighbors=59...
[CV 5/5; 647/1980] END leaf_size=26, n_neighbors=53;; score=0.613 total time=
0.0s
[CV 1/5; 648/1980] START leaf_size=26, n_neighbors=54...
[CV 2/5; 655/1980] END leaf_size=26, n_neighbors=61;; score=0.603 total time=
0.0s
[CV 3/5; 655/1980] START leaf_size=26, n_neighbors=61...
[CV 4/5; 656/1980] END leaf_size=26, n_neighbors=62;; score=0.600 total time=
0.0s
[CV 5/5; 656/1980] START leaf_size=26, n_neighbors=62...
[CV 2/5; 646/1980] END leaf_size=26, n_neighbors=52;; score=0.611 total time=
0.0s
[CV 3/5; 646/1980] START leaf_size=26, n_neighbors=52...
[CV 2/5; 652/1980] END leaf_size=26, n_neighbors=58;; score=0.609 total time=
0.0s[CV 4/5; 649/1980] END leaf_size=26, n_neighbors=55;; score=0.593 total
time= 0.0s[CV 2/5; 658/1980] END leaf_size=26, n_neighbors=64;; score=0.609
total time= 0.0s

[CV 3/5; 658/1980] START leaf_size=26,
n_neighbors=64...[CV 5/5; 653/1980] END leaf_size=26,
n_neighbors=59;; score=0.610 total time= 0.0s

[CV 3/5; 659/1980] END leaf_size=26, n_neighbors=65;; score=0.566 total time=
0.0s
[CV 1/5; 654/1980] START leaf_size=26, n_neighbors=60...

[CV 4/5; 659/1980] START leaf_size=26, n_neighbors=65...
[CV 3/5; 652/1980] START leaf_size=26, n_neighbors=58...
[CV 1/5; 661/1980] START leaf_size=26, n_neighbors=67...
[CV 5/5; 650/1980] END leaf_size=26, n_neighbors=56;; score=0.613 total time=
0.1s[CV 3/5; 655/1980] END leaf_size=26, n_neighbors=61;; score=0.557 total

```

time= 0.0s

[CV 4/5; 655/1980] START leaf\_size=26, n\_neighbors=61...  
[CV 1/5; 651/1980] START leaf\_size=26, n\_neighbors=57...  
[CV 5/5; 656/1980] END leaf\_size=26, n\_neighbors=62;; score=0.610 total time=0.0s  
[CV 1/5; 657/1980] START leaf\_size=26, n\_neighbors=63...  
[CV 1/5; 648/1980] END leaf\_size=26, n\_neighbors=54;; score=0.667 total time=0.0s  
[CV 4/5; 662/1980] START leaf\_size=26, n\_neighbors=68...  
[CV 3/5; 646/1980] END leaf\_size=26, n\_neighbors=52;; score=0.566 total time=0.0s  
[CV 2/5; 664/1980] START leaf\_size=26, n\_neighbors=70...  
[CV 1/5; 654/1980] END leaf\_size=26, n\_neighbors=60;; score=0.667 total time=0.0s  
[CV 2/5; 654/1980] START leaf\_size=26, n\_neighbors=60...  
[CV 3/5; 658/1980] END leaf\_size=26, n\_neighbors=64;; score=0.562 total time=0.0s  
[CV 4/5; 658/1980] START leaf\_size=26, n\_neighbors=64...  
[CV 1/5; 661/1980] END leaf\_size=26, n\_neighbors=67;; score=0.663 total time=0.0s  
[CV 2/5; 661/1980] START leaf\_size=26, n\_neighbors=67...  
[CV 3/5; 652/1980] END leaf\_size=26, n\_neighbors=58;; score=0.549 total time=0.0s  
[CV 4/5; 652/1980] START leaf\_size=26, n\_neighbors=58...  
[CV 4/5; 655/1980] END leaf\_size=26, n\_neighbors=61;; score=0.604 total time=0.0s  
[CV 5/5; 655/1980] START leaf\_size=26, n\_neighbors=61...  
[CV 1/5; 651/1980] END leaf\_size=26, n\_neighbors=57;; score=0.665 total time=0.0s  
[CV 2/5; 651/1980] START leaf\_size=26, n\_neighbors=57...  
[CV 1/5; 657/1980] END leaf\_size=26, n\_neighbors=63;; score=0.665 total time=0.0s  
[CV 2/5; 657/1980] START leaf\_size=26, n\_neighbors=63...  
[CV 4/5; 662/1980] END leaf\_size=26, n\_neighbors=68;; score=0.576 total time=0.0s  
[CV 5/5; 662/1980] START leaf\_size=26, n\_neighbors=68...  
[CV 4/5; 659/1980] END leaf\_size=26, n\_neighbors=65;; score=0.591 total time=0.1s  
[CV 5/5; 659/1980] START leaf\_size=26, n\_neighbors=65...  
[CV 2/5; 654/1980] END leaf\_size=26, n\_neighbors=60;; score=0.605 total time=0.0s  
[CV 3/5; 654/1980] START leaf\_size=26, n\_neighbors=60...  
[CV 4/5; 658/1980] END leaf\_size=26, n\_neighbors=64;; score=0.593 total time=0.0s  
[CV 5/5; 658/1980] START leaf\_size=26, n\_neighbors=64...  
[CV 4/5; 652/1980] END leaf\_size=26, n\_neighbors=58;; score=0.595 total time=0.0s

[CV 5/5; 652/1980] START leaf\_size=26, n\_neighbors=58...  
 [CV 2/5; 661/1980] END leaf\_size=26, n\_neighbors=67;; score=0.611 total time=0.0s  
 [CV 3/5; 661/1980] START leaf\_size=26, n\_neighbors=67...  
 [CV 5/5; 655/1980] END leaf\_size=26, n\_neighbors=61;; score=0.606 total time=0.0s  
 [CV 1/5; 656/1980] START leaf\_size=26, n\_neighbors=62...  
 [CV 2/5; 657/1980] END leaf\_size=26, n\_neighbors=63;; score=0.609 total time=0.0s  
 [CV 3/5; 657/1980] START leaf\_size=26, n\_neighbors=63...  
 [CV 3/5; 654/1980] END leaf\_size=26, n\_neighbors=60;; score=0.553 total time=0.0s  
 [CV 5/5; 665/1980] START leaf\_size=26, n\_neighbors=71...  
 [CV 3/5; 661/1980] END leaf\_size=26, n\_neighbors=67;; score=0.564 total time=0.0s  
 [CV 4/5; 661/1980] START leaf\_size=26, n\_neighbors=67...  
 [CV 1/5; 656/1980] END leaf\_size=26, n\_neighbors=62;; score=0.663 total time=0.0s  
 [CV 3/5; 667/1980] START leaf\_size=26, n\_neighbors=73...  
 [CV 2/5; 664/1980] END leaf\_size=26, n\_neighbors=70;; score=0.607 total time=0.1s  
 [CV 3/5; 657/1980] END leaf\_size=26, n\_neighbors=63;; score=0.562 total time=0.0s  
 [CV 4/5; 657/1980] START leaf\_size=26, n\_neighbors=63...  
  
 [CV 3/5; 664/1980] START leaf\_size=26, n\_neighbors=70...  
 [CV 5/5; 659/1980] END leaf\_size=26, n\_neighbors=65;; score=0.621 total time=0.1s  
 [CV 1/5; 660/1980] START leaf\_size=26, n\_neighbors=66...  
 [CV 2/5; 651/1980] END leaf\_size=26, n\_neighbors=57;; score=0.616 total time=0.1s  
 [CV 5/5; 665/1980] END leaf\_size=26, n\_neighbors=71;; score=0.613 total time=0.0s  
 [CV 1/5; 666/1980] START leaf\_size=26, n\_neighbors=72...  
 [CV 1/5; 669/1980] START leaf\_size=26, n\_neighbors=75...  
 [CV 4/5; 661/1980] END leaf\_size=26, n\_neighbors=67;; score=0.587 total time=0.0s  
 [CV 5/5; 661/1980] START leaf\_size=26, n\_neighbors=67...  
 [CV 3/5; 667/1980] END leaf\_size=26, n\_neighbors=73;; score=0.566 total time=0.0s  
 [CV 4/5; 667/1980] START leaf\_size=26, n\_neighbors=73...  
 [CV 4/5; 657/1980] END leaf\_size=26, n\_neighbors=63;; score=0.604 total time=0.0s  
 [CV 5/5; 658/1980] END leaf\_size=26, n\_neighbors=64;; score=0.613 total time=0.1s  
 [CV 1/5; 659/1980] START leaf\_size=26, n\_neighbors=65...  
 [CV 4/5; 670/1980] START leaf\_size=26, n\_neighbors=76...  
 [CV 5/5; 662/1980] END leaf\_size=26, n\_neighbors=68;; score=0.615 total time=0.1s

[CV 1/5; 663/1980] START leaf\_size=26, n\_neighbors=69...  
 [CV 1/5; 666/1980] END leaf\_size=26, n\_neighbors=72;; score=0.663 total time=0.0s  
 [CV 2/5; 666/1980] START leaf\_size=26, n\_neighbors=72...  
 [CV 5/5; 652/1980] END leaf\_size=26, n\_neighbors=58;; score=0.610 total time=0.1s  
 [CV 5/5; 661/1980] END leaf\_size=26, n\_neighbors=67;; score=0.613 total time=0.0s  
 [CV 2/5; 672/1980] START leaf\_size=26, n\_neighbors=78...  
 [CV 1/5; 662/1980] START leaf\_size=26, n\_neighbors=68...  
 [CV 3/5; 664/1980] END leaf\_size=26, n\_neighbors=70;; score=0.559 total time=0.1s  
 [CV 4/5; 664/1980] START leaf\_size=26, n\_neighbors=70...  
 [CV 4/5; 667/1980] END leaf\_size=26, n\_neighbors=73;; score=0.591 total time=0.0s  
 [CV 5/5; 667/1980] START leaf\_size=26, n\_neighbors=73...  
 [CV 1/5; 659/1980] END leaf\_size=26, n\_neighbors=65;; score=0.663 total time=0.0s  
 [CV 2/5; 659/1980] START leaf\_size=26, n\_neighbors=65...  
 [CV 1/5; 660/1980] END leaf\_size=26, n\_neighbors=66;; score=0.663 total time=0.1s  
 [CV 4/5; 670/1980] END leaf\_size=26, n\_neighbors=76;; score=0.578 total time=0.0s  
 [CV 2/5; 660/1980] START leaf\_size=26, n\_neighbors=66...  
  
 [CV 5/5; 670/1980] START leaf\_size=26, n\_neighbors=76...  
 [CV 1/5; 663/1980] END leaf\_size=26, n\_neighbors=69;; score=0.663 total time=0.0s  
 [CV 2/5; 663/1980] START leaf\_size=26, n\_neighbors=69...  
 [CV 2/5; 666/1980] END leaf\_size=26, n\_neighbors=72;; score=0.607 total time=0.0s  
 [CV 3/5; 666/1980] START leaf\_size=26, n\_neighbors=72...  
 [CV 1/5; 662/1980] END leaf\_size=26, n\_neighbors=68;; score=0.667 total time=0.0s  
 [CV 2/5; 662/1980] START leaf\_size=26, n\_neighbors=68...  
 [CV 4/5; 664/1980] END leaf\_size=26, n\_neighbors=70;; score=0.589 total time=0.0s  
 [CV 5/5; 664/1980] START leaf\_size=26, n\_neighbors=70...  
 [CV 5/5; 667/1980] END leaf\_size=26, n\_neighbors=73;; score=0.628 total time=0.0s  
 [CV 1/5; 668/1980] START leaf\_size=26, n\_neighbors=74...  
 [CV 1/5; 669/1980] END leaf\_size=26, n\_neighbors=75;; score=0.667 total time=0.1s  
 [CV 2/5; 669/1980] START leaf\_size=26, n\_neighbors=75...  
 [CV 2/5; 672/1980] END leaf\_size=26, n\_neighbors=78;; score=0.603 total time=0.1s  
 [CV 3/5; 672/1980] START leaf\_size=26, n\_neighbors=78...  
 [CV 2/5; 659/1980] END leaf\_size=26, n\_neighbors=65;; score=0.616 total time=

0.0s  
 [CV 5/5; 670/1980] END leaf\_size=26, n\_neighbors=76;; score=0.621 total time=  
 0.0s  
 [CV 1/5; 671/1980] START leaf\_size=26, n\_neighbors=77...  
 [CV 3/5; 666/1980] END leaf\_size=26, n\_neighbors=72;; score=0.562 total time=  
 0.0s  
 [CV 4/5; 666/1980] START leaf\_size=26, n\_neighbors=72...  
 [CV 5/5; 673/1980] START leaf\_size=26, n\_neighbors=79...  
 [CV 2/5; 662/1980] END leaf\_size=26, n\_neighbors=68;; score=0.609 total time=  
 0.0s  
 [CV 3/5; 662/1980] START leaf\_size=26, n\_neighbors=68...  
 [CV 2/5; 663/1980] END leaf\_size=26, n\_neighbors=69;; score=0.609 total time=  
 0.0s  
 [CV 3/5; 663/1980] START leaf\_size=26, n\_neighbors=69...  
 [CV 1/5; 668/1980] END leaf\_size=26, n\_neighbors=74;; score=0.661 total time=  
 0.0s  
 [CV 2/5; 668/1980] START leaf\_size=26, n\_neighbors=74...  
 [CV 2/5; 660/1980] END leaf\_size=26, n\_neighbors=66;; score=0.609 total time=  
 0.1s  
 [CV 3/5; 660/1980] START leaf\_size=26, n\_neighbors=66...  
 [CV 5/5; 664/1980] END leaf\_size=26, n\_neighbors=70;; score=0.606 total time=  
 0.0s  
 [CV 1/5; 665/1980] START leaf\_size=26, n\_neighbors=71...  
 [CV 2/5; 669/1980] END leaf\_size=26, n\_neighbors=75;; score=0.603 total time=  
 0.0s  
 [CV 3/5; 669/1980] START leaf\_size=26, n\_neighbors=75...  
 [CV 3/5; 672/1980] END leaf\_size=26, n\_neighbors=78;; score=0.555 total time=  
 0.0s  
 [CV 4/5; 672/1980] START leaf\_size=26, n\_neighbors=78...  
 [CV 1/5; 671/1980] END leaf\_size=26, n\_neighbors=77;; score=0.667 total time=  
 0.0s  
 [CV 2/5; 671/1980] START leaf\_size=26, n\_neighbors=77...  
 [CV 5/5; 673/1980] END leaf\_size=26, n\_neighbors=79;; score=0.619 total time=  
 0.0s  
 [CV 1/5; 674/1980] START leaf\_size=26, n\_neighbors=80...  
 [CV 3/5; 662/1980] END leaf\_size=26, n\_neighbors=68;; score=0.566 total time=  
 0.0s  
 [CV 3/5; 675/1980] START leaf\_size=26, n\_neighbors=81...  
 [CV 4/5; 666/1980] END leaf\_size=26, n\_neighbors=72;; score=0.593 total time=  
 0.0s  
 [CV 5/5; 666/1980] START leaf\_size=26, n\_neighbors=72...  
 [CV 2/5; 668/1980] END leaf\_size=26, n\_neighbors=74;; score=0.607 total time=  
 0.0s  
 [CV 3/5; 668/1980] START leaf\_size=26, n\_neighbors=74...  
 [CV 3/5; 663/1980] END leaf\_size=26, n\_neighbors=69;; score=0.568 total time=  
 0.0s  
 [CV 4/5; 663/1980] START leaf\_size=26, n\_neighbors=69...  
 [CV 3/5; 660/1980] END leaf\_size=26, n\_neighbors=66;; score=0.566 total time=

0.0s  
[CV 4/5; 660/1980] START leaf\_size=26, n\_neighbors=66...  
[CV 4/5; 672/1980] END leaf\_size=26, n\_neighbors=78;; score=0.571 total time=  
0.0s  
[CV 5/5; 672/1980] START leaf\_size=26, n\_neighbors=78...  
[CV 3/5; 669/1980] END leaf\_size=26, n\_neighbors=75;; score=0.555 total time=  
0.0s  
[CV 4/5; 669/1980] START leaf\_size=26, n\_neighbors=75...  
[CV 3/5; 675/1980] END leaf\_size=26, n\_neighbors=81;; score=0.562 total time=  
0.0s  
[CV 4/5; 675/1980] START leaf\_size=26, n\_neighbors=81...  
[CV 2/5; 671/1980] END leaf\_size=26, n\_neighbors=77;; score=0.605 total time=  
0.0s  
[CV 3/5; 671/1980] START leaf\_size=26, n\_neighbors=77...  
[CV 1/5; 674/1980] END leaf\_size=26, n\_neighbors=80;; score=0.659 total time=  
0.0s  
[CV 2/5; 674/1980] START leaf\_size=26, n\_neighbors=80...  
[CV 1/5; 665/1980] END leaf\_size=26, n\_neighbors=71;; score=0.670 total time=  
0.1s  
[CV 2/5; 665/1980] START leaf\_size=26, n\_neighbors=71...  
[CV 3/5; 668/1980] END leaf\_size=26, n\_neighbors=74;; score=0.557 total time=  
0.0s  
[CV 4/5; 668/1980] START leaf\_size=26, n\_neighbors=74...  
[CV 5/5; 666/1980] END leaf\_size=26, n\_neighbors=72;; score=0.613 total time=  
0.0s  
[CV 1/5; 667/1980] START leaf\_size=26, n\_neighbors=73...  
[CV 4/5; 663/1980] END leaf\_size=26, n\_neighbors=69;; score=0.582 total time=  
0.0s  
[CV 5/5; 663/1980] START leaf\_size=26, n\_neighbors=69...  
[CV 5/5; 672/1980] END leaf\_size=26, n\_neighbors=78;; score=0.628 total time=  
0.0s  
[CV 1/5; 673/1980] START leaf\_size=26, n\_neighbors=79...  
[CV 4/5; 669/1980] END leaf\_size=26, n\_neighbors=75;; score=0.591 total time=  
0.0s  
[CV 5/5; 669/1980] START leaf\_size=26, n\_neighbors=75...  
[CV 4/5; 660/1980] END leaf\_size=26, n\_neighbors=66;; score=0.574 total time=  
0.0s  
[CV 5/5; 660/1980] START leaf\_size=26, n\_neighbors=66...  
[CV 4/5; 675/1980] END leaf\_size=26, n\_neighbors=81;; score=0.587 total time=  
0.0s  
[CV 5/5; 675/1980] START leaf\_size=26, n\_neighbors=81...  
[CV 3/5; 671/1980] END leaf\_size=26, n\_neighbors=77;; score=0.562 total time=  
0.0s  
[CV 4/5; 671/1980] START leaf\_size=26, n\_neighbors=77...  
[CV 2/5; 674/1980] END leaf\_size=26, n\_neighbors=80;; score=0.594 total time=  
0.0s  
[CV 3/5; 674/1980] START leaf\_size=26, n\_neighbors=80...  
[CV 2/5; 665/1980] END leaf\_size=26, n\_neighbors=71;; score=0.616 total time=

0.0s  
[CV 4/5; 668/1980] END leaf\_size=26, n\_neighbors=74;; score=0.591 total time=0.0s  
[CV 3/5; 665/1980] START leaf\_size=26, n\_neighbors=71...  
[CV 5/5; 668/1980] START leaf\_size=26, n\_neighbors=74...  
[CV 1/5; 667/1980] END leaf\_size=26, n\_neighbors=73;; score=0.663 total time=0.0s  
[CV 2/5; 667/1980] START leaf\_size=26, n\_neighbors=73...  
[CV 5/5; 663/1980] END leaf\_size=26, n\_neighbors=69;; score=0.621 total time=0.0s  
[CV 1/5; 664/1980] START leaf\_size=26, n\_neighbors=70...  
[CV 5/5; 675/1980] END leaf\_size=26, n\_neighbors=81;; score=0.626 total time=0.0s  
[CV 1/5; 676/1980] START leaf\_size=26, n\_neighbors=82...  
[CV 5/5; 669/1980] END leaf\_size=26, n\_neighbors=75;; score=0.632 total time=0.0s  
[CV 1/5; 670/1980] START leaf\_size=26, n\_neighbors=76...  
[CV 1/5; 673/1980] END leaf\_size=26, n\_neighbors=79;; score=0.659 total time=0.0s  
[CV 2/5; 673/1980] START leaf\_size=26, n\_neighbors=79...  
[CV 5/5; 660/1980] END leaf\_size=26, n\_neighbors=66;; score=0.613 total time=0.0s  
[CV 1/5; 677/1980] START leaf\_size=26, n\_neighbors=83...  
[CV 4/5; 671/1980] END leaf\_size=26, n\_neighbors=77;; score=0.580 total time=0.0s  
[CV 5/5; 671/1980] START leaf\_size=26, n\_neighbors=77...  
[CV 3/5; 674/1980] END leaf\_size=26, n\_neighbors=80;; score=0.564 total time=0.0s  
[CV 4/5; 674/1980] START leaf\_size=26, n\_neighbors=80...  
[CV 5/5; 668/1980] END leaf\_size=26, n\_neighbors=74;; score=0.623 total time=0.0s  
[CV 4/5; 678/1980] START leaf\_size=26, n\_neighbors=84...  
[CV 3/5; 665/1980] END leaf\_size=26, n\_neighbors=71;; score=0.562 total time=0.0s  
[CV 4/5; 665/1980] START leaf\_size=26, n\_neighbors=71...  
[CV 2/5; 667/1980] END leaf\_size=26, n\_neighbors=73;; score=0.605 total time=0.0s  
[CV 1/5; 676/1980] END leaf\_size=26, n\_neighbors=82;; score=0.659 total time=0.0s  
[CV 2/5; 676/1980] START leaf\_size=26, n\_neighbors=82...  
[CV 1/5; 664/1980] END leaf\_size=26, n\_neighbors=70;; score=0.663 total time=0.0s  
[CV 2/5; 680/1980] START leaf\_size=26, n\_neighbors=86...  
[CV 2/5; 673/1980] END leaf\_size=26, n\_neighbors=79;; score=0.598 total time=0.0s  
[CV 1/5; 670/1980] END leaf\_size=26, n\_neighbors=76;; score=0.667 total time=0.0s



[CV 3/5; 673/1980] START leaf\_size=26, n\_neighbors=79...  
 [CV 2/5; 670/1980] START leaf\_size=26, n\_neighbors=76...  
 [CV 5/5; 681/1980] START leaf\_size=26, n\_neighbors=87...  
 [CV 5/5; 671/1980] END leaf\_size=26, n\_neighbors=77;; score=0.617 total time=0.0s  
 [CV 1/5; 672/1980] START leaf\_size=26, n\_neighbors=78...  
 [CV 4/5; 674/1980] END leaf\_size=26, n\_neighbors=80;; score=0.584 total time=0.0s  
 [CV 5/5; 674/1980] START leaf\_size=26, n\_neighbors=80...  
 [CV 4/5; 678/1980] END leaf\_size=26, n\_neighbors=84;; score=0.582 total time=0.0s  
 [CV 5/5; 678/1980] START leaf\_size=26, n\_neighbors=84...  
 [CV 1/5; 677/1980] END leaf\_size=26, n\_neighbors=83;; score=0.650 total time=0.0s  
 [CV 2/5; 677/1980] START leaf\_size=26, n\_neighbors=83...  
 [CV 4/5; 665/1980] END leaf\_size=26, n\_neighbors=71;; score=0.587 total time=0.0s  
 [CV 3/5; 683/1980] START leaf\_size=26, n\_neighbors=89...  
 [CV 2/5; 676/1980] END leaf\_size=26, n\_neighbors=82;; score=0.600 total time=0.0s  
 [CV 3/5; 676/1980] START leaf\_size=26, n\_neighbors=82...  
 [CV 2/5; 680/1980] END leaf\_size=26, n\_neighbors=86;; score=0.598 total time=0.0s  
 [CV 3/5; 673/1980] END leaf\_size=26, n\_neighbors=79;; score=0.557 total time=0.0s  
 [CV 2/5; 670/1980] END leaf\_size=26, n\_neighbors=76;; score=0.603 total time=0.0s  
  
 [CV 3/5; 670/1980] START leaf\_size=26, n\_neighbors=76...  
 [CV 4/5; 673/1980] START leaf\_size=26, n\_neighbors=79...  
  
 [CV 3/5; 680/1980] START leaf\_size=26, n\_neighbors=86...  
 [CV 5/5; 681/1980] END leaf\_size=26, n\_neighbors=87;; score=0.619 total time=0.0s  
 [CV 1/5; 682/1980] START leaf\_size=26, n\_neighbors=88...  
 [CV 5/5; 678/1980] END leaf\_size=26, n\_neighbors=84;; score=0.626 total time=0.0s  
 [CV 1/5; 679/1980] START leaf\_size=26, n\_neighbors=85...  
 [CV 1/5; 672/1980] END leaf\_size=26, n\_neighbors=78;; score=0.659 total time=0.0s  
 [CV 5/5; 674/1980] END leaf\_size=26, n\_neighbors=80;; score=0.628 total time=0.0s  
 [CV 1/5; 675/1980] START leaf\_size=26, n\_neighbors=81...  
 [CV 1/5; 685/1980] START leaf\_size=26, n\_neighbors=91...  
 [CV 2/5; 677/1980] END leaf\_size=26, n\_neighbors=83;; score=0.596 total time=0.0s  
 [CV 3/5; 677/1980] START leaf\_size=26, n\_neighbors=83...  
 [CV 3/5; 676/1980] END leaf\_size=26, n\_neighbors=82;; score=0.566 total time=0.0s  
 [CV 4/5; 676/1980] START leaf\_size=26, n\_neighbors=82...

[CV 3/5; 683/1980] END leaf\_size=26, n\_neighbors=89;; score=0.564 total time=0.0s  
 [CV 3/5; 670/1980] END leaf\_size=26, n\_neighbors=76;; score=0.557 total time=0.0s  
 [CV 4/5; 683/1980] START leaf\_size=26, n\_neighbors=89...  
 [CV 4/5; 686/1980] START leaf\_size=26, n\_neighbors=92...  
 [CV 3/5; 680/1980] END leaf\_size=26, n\_neighbors=86;; score=0.559 total time=0.0s  
 [CV 4/5; 680/1980] START leaf\_size=26, n\_neighbors=86...  
 [CV 4/5; 673/1980] END leaf\_size=26, n\_neighbors=79;; score=0.584 total time=0.0s  
 [CV 2/5; 688/1980] START leaf\_size=26, n\_neighbors=94...  
 [CV 1/5; 679/1980] END leaf\_size=26, n\_neighbors=85;; score=0.650 total time=0.0s  
 [CV 2/5; 679/1980] START leaf\_size=26, n\_neighbors=85...  
 [CV 1/5; 675/1980] END leaf\_size=26, n\_neighbors=81;; score=0.659 total time=0.0s  
 [CV 2/5; 675/1980] START leaf\_size=26, n\_neighbors=81...  
 [CV 1/5; 685/1980] END leaf\_size=26, n\_neighbors=91;; score=0.648 total time=0.0s  
 [CV 2/5; 685/1980] START leaf\_size=26, n\_neighbors=91...  
 [CV 1/5; 682/1980] END leaf\_size=26, n\_neighbors=88;; score=0.652 total time=0.1s  
 [CV 2/5; 682/1980] START leaf\_size=26, n\_neighbors=88...  
 [CV 4/5; 676/1980] END leaf\_size=26, n\_neighbors=82;; score=0.587 total time=0.0s  
 [CV 5/5; 676/1980] START leaf\_size=26, n\_neighbors=82...  
 [CV 4/5; 683/1980] END leaf\_size=26, n\_neighbors=89;; score=0.591 total time=0.0s  
 [CV 5/5; 683/1980] START leaf\_size=26, n\_neighbors=89...  
 [CV 4/5; 680/1980] END leaf\_size=26, n\_neighbors=86;; score=0.580 total time=0.0s  
 [CV 4/5; 686/1980] END leaf\_size=26, n\_neighbors=92;; score=0.582 total time=0.0s  
 [CV 5/5; 680/1980] START leaf\_size=26, n\_neighbors=86...  
 [CV 5/5; 686/1980] START leaf\_size=26, n\_neighbors=92...  
 [CV 3/5; 677/1980] END leaf\_size=26, n\_neighbors=83;; score=0.564 total time=0.1s  
 [CV 4/5; 677/1980] START leaf\_size=26, n\_neighbors=83...  
 [CV 2/5; 688/1980] END leaf\_size=26, n\_neighbors=94;; score=0.600 total time=0.0s  
 [CV 3/5; 688/1980] START leaf\_size=26, n\_neighbors=94...  
 [CV 2/5; 679/1980] END leaf\_size=26, n\_neighbors=85;; score=0.600 total time=0.0s  
 [CV 3/5; 679/1980] START leaf\_size=26, n\_neighbors=85...  
 [CV 2/5; 675/1980] END leaf\_size=26, n\_neighbors=81;; score=0.596 total time=0.0s  
 [CV 5/5; 676/1980] END leaf\_size=26, n\_neighbors=82;; score=0.630 total time=

0.0s  
 [CV 5/5; 689/1980] START leaf\_size=26, n\_neighbors=95...  
 [CV 3/5; 691/1980] START leaf\_size=26, n\_neighbors=97...  
 [CV 2/5; 685/1980] END leaf\_size=26, n\_neighbors=91;; score=0.605 total time=  
 0.0s  
 [CV 3/5; 685/1980] START leaf\_size=26, n\_neighbors=91...  
 [CV 2/5; 682/1980] END leaf\_size=26, n\_neighbors=88;; score=0.600 total time=  
 0.0s  
 [CV 3/5; 682/1980] START leaf\_size=26, n\_neighbors=88...  
 [CV 5/5; 680/1980] END leaf\_size=26, n\_neighbors=86;; score=0.623 total time=  
 0.0s  
 [CV 1/5; 681/1980] START leaf\_size=26, n\_neighbors=87...  
 [CV 5/5; 686/1980] END leaf\_size=26, n\_neighbors=92;; score=0.621 total time=  
 0.0s  
 [CV 1/5; 687/1980] START leaf\_size=26, n\_neighbors=93...  
 [CV 3/5; 679/1980] END leaf\_size=26, n\_neighbors=85;; score=0.557 total time=  
 0.0s  
 [CV 4/5; 679/1980] START leaf\_size=26, n\_neighbors=85...  
 [CV 3/5; 688/1980] END leaf\_size=26, n\_neighbors=94;; score=0.562 total time=  
 0.0s  
 [CV 4/5; 688/1980] START leaf\_size=26, n\_neighbors=94...  
 [CV 5/5; 683/1980] END leaf\_size=26, n\_neighbors=89;; score=0.621 total time=  
 0.0s  
 [CV 1/5; 684/1980] START leaf\_size=26, n\_neighbors=90...  
 [CV 3/5; 691/1980] END leaf\_size=26, n\_neighbors=97;; score=0.564 total time=  
 0.0s  
 [CV 4/5; 691/1980] START leaf\_size=26, n\_neighbors=97...  
 [CV 5/5; 689/1980] END leaf\_size=26, n\_neighbors=95;; score=0.608 total time=  
 0.0s  
 [CV 1/5; 690/1980] START leaf\_size=26, n\_neighbors=96...  
 [CV 3/5; 685/1980] END leaf\_size=26, n\_neighbors=91;; score=0.564 total time=  
 0.0s  
 [CV 4/5; 685/1980] START leaf\_size=26, n\_neighbors=91...  
 [CV 1/5; 681/1980] END leaf\_size=26, n\_neighbors=87;; score=0.650 total time=  
 0.0s  
 [CV 2/5; 681/1980] START leaf\_size=26, n\_neighbors=87...  
 [CV 3/5; 682/1980] END leaf\_size=26, n\_neighbors=88;; score=0.562 total time=  
 0.0s  
 [CV 4/5; 677/1980] END leaf\_size=26, n\_neighbors=83;; score=0.584 total time=  
 0.1s  
 [CV 5/5; 677/1980] START leaf\_size=26, n\_neighbors=83...  
 [CV 4/5; 682/1980] START leaf\_size=26, n\_neighbors=88...  
 [CV 1/5; 687/1980] END leaf\_size=26, n\_neighbors=93;; score=0.646 total time=  
 0.0s  
 [CV 2/5; 687/1980] START leaf\_size=26, n\_neighbors=93...  
 [CV 4/5; 679/1980] END leaf\_size=26, n\_neighbors=85;; score=0.576 total time=  
 0.0s  
 [CV 5/5; 679/1980] START leaf\_size=26, n\_neighbors=85...

[CV 4/5; 688/1980] END leaf\_size=26, n\_neighbors=94;; score=0.582 total time=0.0s  
 [CV 5/5; 688/1980] START leaf\_size=26, n\_neighbors=94...  
 [CV 4/5; 691/1980] END leaf\_size=26, n\_neighbors=97;; score=0.580 total time=0.0s  
 [CV 5/5; 691/1980] START leaf\_size=26, n\_neighbors=97...  
 [CV 1/5; 684/1980] END leaf\_size=26, n\_neighbors=90;; score=0.650 total time=0.0s  
 [CV 2/5; 684/1980] START leaf\_size=26, n\_neighbors=90...  
 [CV 1/5; 690/1980] END leaf\_size=26, n\_neighbors=96;; score=0.637 total time=0.0s  
 [CV 2/5; 690/1980] START leaf\_size=26, n\_neighbors=96...  
 [CV 4/5; 685/1980] END leaf\_size=26, n\_neighbors=91;; score=0.591 total time=0.0s  
 [CV 5/5; 685/1980] START leaf\_size=26, n\_neighbors=91...  
 [CV 2/5; 681/1980] END leaf\_size=26, n\_neighbors=87;; score=0.603 total time=0.0s  
 [CV 3/5; 681/1980] START leaf\_size=26, n\_neighbors=87...  
 [CV 2/5; 687/1980] END leaf\_size=26, n\_neighbors=93;; score=0.603 total time=0.0s  
 [CV 3/5; 687/1980] START leaf\_size=26, n\_neighbors=93...  
 [CV 5/5; 679/1980] END leaf\_size=26, n\_neighbors=85;; score=0.626 total time=0.0s  
 [CV 1/5; 680/1980] START leaf\_size=26, n\_neighbors=86...  
 [CV 4/5; 682/1980] END leaf\_size=26, n\_neighbors=88;; score=0.578 total time=0.1s  
 [CV 5/5; 682/1980] START leaf\_size=26, n\_neighbors=88...  
 [CV 5/5; 691/1980] END leaf\_size=26, n\_neighbors=97;; score=0.602 total time=0.0s  
 [CV 1/5; 692/1980] START leaf\_size=26, n\_neighbors=98...  
 [CV 5/5; 688/1980] END leaf\_size=26, n\_neighbors=94;; score=0.608 total time=0.0s  
 [CV 1/5; 689/1980] START leaf\_size=26, n\_neighbors=95...  
 [CV 5/5; 677/1980] END leaf\_size=26, n\_neighbors=83;; score=0.619 total time=0.1s  
 [CV 1/5; 678/1980] START leaf\_size=26, n\_neighbors=84...  
 [CV 2/5; 690/1980] END leaf\_size=26, n\_neighbors=96;; score=0.598 total time=0.0s  
 [CV 5/5; 685/1980] END leaf\_size=26, n\_neighbors=91;; score=0.623 total time=0.0s  
 [CV 3/5; 690/1980] START leaf\_size=26, n\_neighbors=96...  
 [CV 1/5; 686/1980] START leaf\_size=26, n\_neighbors=92...  
 [CV 3/5; 681/1980] END leaf\_size=26, n\_neighbors=87;; score=0.562 total time=0.0s  
 [CV 4/5; 681/1980] START leaf\_size=26, n\_neighbors=87...  
 [CV 2/5; 684/1980] END leaf\_size=26, n\_neighbors=90;; score=0.600 total time=0.0s  
 [CV 1/5; 680/1980] END leaf\_size=26, n\_neighbors=86;; score=0.648 total time= 0.0s

[CV 3/5; 684/1980] START leaf\_size=26, n\_neighbors=90...  
 [CV 3/5; 687/1980] END leaf\_size=26, n\_neighbors=93;; score=0.564 total time=0.0s  
 [CV 4/5; 687/1980] START leaf\_size=26, n\_neighbors=93...  
 [CV 1/5; 693/1980] START leaf\_size=26, n\_neighbors=99...  
 [CV 1/5; 692/1980] END leaf\_size=26, n\_neighbors=98;; score=0.635 total time=0.0s  
 [CV 2/5; 692/1980] START leaf\_size=26, n\_neighbors=98...  
 [CV 5/5; 682/1980] END leaf\_size=26, n\_neighbors=88;; score=0.617 total time=0.0s  
 [CV 1/5; 683/1980] START leaf\_size=26, n\_neighbors=89...  
 [CV 1/5; 689/1980] END leaf\_size=26, n\_neighbors=95;; score=0.644 total time=0.0s  
 [CV 2/5; 689/1980] START leaf\_size=26, n\_neighbors=95...  
 [CV 4/5; 681/1980] END leaf\_size=26, n\_neighbors=87;; score=0.584 total time=0.0s  
 [CV 4/5; 694/1980] START leaf\_size=27, n\_neighbors=1...  
 [CV 3/5; 690/1980] END leaf\_size=26, n\_neighbors=96;; score=0.564 total time=0.0s  
 [CV 4/5; 690/1980] START leaf\_size=26, n\_neighbors=96...  
 [CV 1/5; 678/1980] END leaf\_size=26, n\_neighbors=84;; score=0.654 total time=0.0s  
 [CV 2/5; 678/1980] START leaf\_size=26, n\_neighbors=84...  
 [CV 1/5; 686/1980] END leaf\_size=26, n\_neighbors=92;; score=0.646 total time=0.0s  
 [CV 2/5; 686/1980] START leaf\_size=26, n\_neighbors=92...  
 [CV 3/5; 684/1980] END leaf\_size=26, n\_neighbors=90;; score=0.564 total time=0.0s  
 [CV 4/5; 687/1980] END leaf\_size=26, n\_neighbors=93;; score=0.587 total time=0.0s  
 [CV 5/5; 687/1980] START leaf\_size=26, n\_neighbors=93...  
 [CV 1/5; 693/1980] END leaf\_size=26, n\_neighbors=99;; score=0.641 total time=0.0s  
 [CV 2/5; 693/1980] START leaf\_size=26, n\_neighbors=99...  
 [CV 2/5; 692/1980] END leaf\_size=26, n\_neighbors=98;; score=0.596 total time=0.0s  
 [CV 3/5; 692/1980] START leaf\_size=26, n\_neighbors=98...  
  
 [CV 4/5; 684/1980] START leaf\_size=26, n\_neighbors=90...  
 [CV 4/5; 694/1980] END leaf\_size=27, n\_neighbors=1;; score=0.539 total time=0.0s  
 [CV 5/5; 694/1980] START leaf\_size=27, n\_neighbors=1...  
 [CV 2/5; 689/1980] END leaf\_size=26, n\_neighbors=95;; score=0.603 total time=0.0s  
 [CV 3/5; 689/1980] START leaf\_size=26, n\_neighbors=95...  
 [CV 5/5; 694/1980] END leaf\_size=27, n\_neighbors=1;; score=0.567 total time=0.0s  
 [CV 1/5; 695/1980] START leaf\_size=27, n\_neighbors=2...

[CV 4/5; 690/1980] END leaf\_size=26, n\_neighbors=96;; score=0.582 total time=0.0s  
 [CV 5/5; 690/1980] START leaf\_size=26, n\_neighbors=96...  
 [CV 2/5; 686/1980] END leaf\_size=26, n\_neighbors=92;; score=0.598 total time=0.0s  
 [CV 3/5; 686/1980] START leaf\_size=26, n\_neighbors=92...  
 [CV 1/5; 683/1980] END leaf\_size=26, n\_neighbors=89;; score=0.646 total time=0.1s  
 [CV 2/5; 683/1980] START leaf\_size=26, n\_neighbors=89...  
 [CV 5/5; 687/1980] END leaf\_size=26, n\_neighbors=93;; score=0.617 total time=0.0s  
 [CV 1/5; 688/1980] START leaf\_size=26, n\_neighbors=94...  
 [CV 2/5; 678/1980] END leaf\_size=26, n\_neighbors=84;; score=0.603 total time=0.0s  
 [CV 3/5; 678/1980] START leaf\_size=26, n\_neighbors=84...  
 [CV 2/5; 693/1980] END leaf\_size=26, n\_neighbors=99;; score=0.598 total time=0.0s  
 [CV 3/5; 693/1980] START leaf\_size=26, n\_neighbors=99...  
 [CV 3/5; 692/1980] END leaf\_size=26, n\_neighbors=98;; score=0.562 total time=0.0s  
 [CV 4/5; 692/1980] START leaf\_size=26, n\_neighbors=98...  
 [CV 1/5; 695/1980] END leaf\_size=27, n\_neighbors=2;; score=0.566 total time=0.0s  
 [CV 2/5; 695/1980] START leaf\_size=27, n\_neighbors=2...  
 [CV 3/5; 689/1980] END leaf\_size=26, n\_neighbors=95;; score=0.566 total time=0.0s  
 [CV 4/5; 689/1980] START leaf\_size=26, n\_neighbors=95...  
 [CV 4/5; 684/1980] END leaf\_size=26, n\_neighbors=90;; score=0.580 total time=0.1s  
 [CV 5/5; 684/1980] START leaf\_size=26, n\_neighbors=90...  
 [CV 2/5; 695/1980] END leaf\_size=27, n\_neighbors=2;; score=0.579 total time=0.0s  
 [CV 5/5; 690/1980] END leaf\_size=26, n\_neighbors=96;; score=0.604 total time=0.0s  
 [CV 3/5; 695/1980] START leaf\_size=27, n\_neighbors=2...  
  
 [CV 1/5; 691/1980] START leaf\_size=26, n\_neighbors=97...  
 [CV 3/5; 686/1980] END leaf\_size=26, n\_neighbors=92;; score=0.564 total time=0.0s  
 [CV 2/5; 683/1980] END leaf\_size=26, n\_neighbors=89;; score=0.600 total time=0.0s  
 [CV 2/5; 696/1980] START leaf\_size=27, n\_neighbors=3...  
 [CV 5/5; 697/1980] START leaf\_size=27, n\_neighbors=4...  
 [CV 1/5; 688/1980] END leaf\_size=26, n\_neighbors=94;; score=0.644 total time=0.0s  
 [CV 3/5; 693/1980] END leaf\_size=26, n\_neighbors=99;; score=0.566 total time=0.0s  
 [CV 4/5; 693/1980] START leaf\_size=26, n\_neighbors=99...

[CV 3/5; 699/1980] START leaf\_size=27, n\_neighbors=6...  
 [CV 4/5; 692/1980] END leaf\_size=26, n\_neighbors=98;; score=0.584 total time=0.0s  
 [CV 5/5; 692/1980] START leaf\_size=26, n\_neighbors=98...  
 [CV 3/5; 695/1980] END leaf\_size=27, n\_neighbors=2;; score=0.512 total time=0.0s  
 [CV 4/5; 695/1980] START leaf\_size=27, n\_neighbors=2...  
 [CV 4/5; 689/1980] END leaf\_size=26, n\_neighbors=95;; score=0.584 total time=0.0s  
 [CV 3/5; 678/1980] END leaf\_size=26, n\_neighbors=84;; score=0.555 total time=0.0s  
 [CV 2/5; 696/1980] END leaf\_size=27, n\_neighbors=3;; score=0.579 total time=0.0s  
 [CV 3/5; 696/1980] START leaf\_size=27, n\_neighbors=3...  
 [CV 5/5; 697/1980] END leaf\_size=27, n\_neighbors=4;; score=0.593 total time=0.0s  
 [CV 1/5; 698/1980] START leaf\_size=27, n\_neighbors=5...  
 [CV 1/5; 701/1980] START leaf\_size=27, n\_neighbors=8...  
 [CV 4/5; 702/1980] START leaf\_size=27, n\_neighbors=9...  
 [CV 1/5; 691/1980] END leaf\_size=26, n\_neighbors=97;; score=0.641 total time=0.0s  
 [CV 2/5; 691/1980] START leaf\_size=26, n\_neighbors=97...  
 [CV 3/5; 699/1980] END leaf\_size=27, n\_neighbors=6;; score=0.555 total time=0.0s  
 [CV 4/5; 699/1980] START leaf\_size=27, n\_neighbors=6...  
 [CV 4/5; 695/1980] END leaf\_size=27, n\_neighbors=2;; score=0.571 total time=0.0s  
 [CV 5/5; 695/1980] START leaf\_size=27, n\_neighbors=2...  
 [CV 5/5; 684/1980] END leaf\_size=26, n\_neighbors=90;; score=0.617 total time=0.1s  
 [CV 3/5; 696/1980] END leaf\_size=27, n\_neighbors=3;; score=0.484 total time=0.0s  
 [CV 4/5; 696/1980] START leaf\_size=27, n\_neighbors=3...  
 [CV 4/5; 693/1980] END leaf\_size=26, n\_neighbors=99;; score=0.589 total time=0.0s  
 [CV 5/5; 693/1980] START leaf\_size=26, n\_neighbors=99...  
 [CV 5/5; 692/1980] END leaf\_size=26, n\_neighbors=98;; score=0.606 total time=0.0s  
 [CV 5/5; 705/1980] START leaf\_size=27, n\_neighbors=12...  
 [CV 2/5; 704/1980] START leaf\_size=27, n\_neighbors=11...  
 [CV 4/5; 702/1980] END leaf\_size=27, n\_neighbors=9;; score=0.589 total time=0.0s  
 [CV 5/5; 702/1980] START leaf\_size=27, n\_neighbors=9...  
 [CV 5/5; 695/1980] END leaf\_size=27, n\_neighbors=2;; score=0.574 total time=0.0s  
 [CV 1/5; 696/1980] START leaf\_size=27, n\_neighbors=3...  
 [CV 1/5; 698/1980] END leaf\_size=27, n\_neighbors=5;; score=0.546 total time=0.0s

[CV 2/5; 698/1980] START leaf\_size=27, n\_neighbors=5...  
 [CV 4/5; 699/1980] END leaf\_size=27, n\_neighbors=6;; score=0.578 total time=0.0s  
 [CV 5/5; 699/1980] START leaf\_size=27, n\_neighbors=6...  
 [CV 1/5; 701/1980] END leaf\_size=27, n\_neighbors=8;; score=0.568 total time=0.0s  
 [CV 2/5; 701/1980] START leaf\_size=27, n\_neighbors=8...  
 [CV 4/5; 696/1980] END leaf\_size=27, n\_neighbors=3;; score=0.584 total time=0.0s  
 [CV 5/5; 696/1980] START leaf\_size=27, n\_neighbors=3...  
 [CV 5/5; 705/1980] END leaf\_size=27, n\_neighbors=12;; score=0.613 total time=0.0s  
 [CV 1/5; 706/1980] START leaf\_size=27, n\_neighbors=13...  
 [CV 2/5; 691/1980] END leaf\_size=26, n\_neighbors=97;; score=0.594 total time=0.0s  
 [CV 3/5; 707/1980] START leaf\_size=27, n\_neighbors=14...  
 [CV 1/5; 696/1980] END leaf\_size=27, n\_neighbors=3;; score=0.557 total time=0.0s  
 [CV 2/5; 704/1980] END leaf\_size=27, n\_neighbors=11;; score=0.579 total time=0.0s  
 [CV 1/5; 709/1980] START leaf\_size=27, n\_neighbors=16...  
 [CV 5/5; 702/1980] END leaf\_size=27, n\_neighbors=9;; score=0.613 total time=0.0s  
 [CV 1/5; 703/1980] START leaf\_size=27, n\_neighbors=10...  
 [CV 5/5; 699/1980] END leaf\_size=27, n\_neighbors=6;; score=0.582 total time=0.0s  
 [CV 1/5; 700/1980] START leaf\_size=27, n\_neighbors=7...  
  
 [CV 3/5; 704/1980] START leaf\_size=27, n\_neighbors=11...  
 [CV 5/5; 693/1980] END leaf\_size=26, n\_neighbors=99;; score=0.610 total time=0.0s  
 [CV 1/5; 694/1980] START leaf\_size=27, n\_neighbors=1...  
 [CV 5/5; 696/1980] END leaf\_size=27, n\_neighbors=3;; score=0.593 total time=0.0s  
 [CV 1/5; 697/1980] START leaf\_size=27, n\_neighbors=4...  
 [CV 1/5; 706/1980] END leaf\_size=27, n\_neighbors=13;; score=0.633 total time=0.0s  
 [CV 2/5; 706/1980] START leaf\_size=27, n\_neighbors=13...  
 [CV 2/5; 701/1980] END leaf\_size=27, n\_neighbors=8;; score=0.551 total time=0.0s  
 [CV 3/5; 701/1980] START leaf\_size=27, n\_neighbors=8...  
 [CV 2/5; 698/1980] END leaf\_size=27, n\_neighbors=5;; score=0.562 total time=0.0s  
 [CV 3/5; 707/1980] END leaf\_size=27, n\_neighbors=14;; score=0.544 total time=0.0s  
  
 [CV 4/5; 707/1980] START leaf\_size=27, n\_neighbors=14...  
 [CV 3/5; 698/1980] START leaf\_size=27, n\_neighbors=5...  
 [CV 1/5; 694/1980] END leaf\_size=27, n\_neighbors=1;; score=0.516 total time=



```

0.0s
[CV 2/5; 694/1980] START leaf_size=27, n_neighbors=1...
[CV 1/5; 709/1980] END leaf_size=27, n_neighbors=16;;, score=0.637 total time=
0.0s
[CV 2/5; 709/1980] START leaf_size=27, n_neighbors=16...
[CV 1/5; 703/1980] END leaf_size=27, n_neighbors=10;;, score=0.611 total time=
0.0s[CV 3/5; 704/1980] END leaf_size=27, n_neighbors=11;;, score=0.551 total
time= 0.0s
[CV 1/5; 697/1980] END leaf_size=27, n_neighbors=4;;, score=0.562 total time=
0.0s[CV 4/5; 704/1980] START leaf_size=27,
n_neighbors=11...

[CV 2/5; 697/1980] START leaf_size=27, n_neighbors=4...
[CV 1/5; 700/1980] END leaf_size=27, n_neighbors=7;;, score=0.568 total time=
0.0s
[CV 2/5; 700/1980] START leaf_size=27, n_neighbors=7...

[CV 2/5; 703/1980] START leaf_size=27, n_neighbors=10...
[CV 2/5; 706/1980] END leaf_size=27, n_neighbors=13;;, score=0.570 total time=
0.0s
[CV 3/5; 706/1980] START leaf_size=27, n_neighbors=13...
[CV 3/5; 698/1980] END leaf_size=27, n_neighbors=5;;, score=0.536 total time=
0.0s
[CV 4/5; 698/1980] START leaf_size=27, n_neighbors=5...
[CV 4/5; 707/1980] END leaf_size=27, n_neighbors=14;;, score=0.584 total time=
0.0s
[CV 5/5; 707/1980] START leaf_size=27, n_neighbors=14...
[CV 2/5; 694/1980] END leaf_size=27, n_neighbors=1;;, score=0.568 total time=
0.0s
[CV 3/5; 694/1980] START leaf_size=27, n_neighbors=1...
[CV 3/5; 701/1980] END leaf_size=27, n_neighbors=8;;, score=0.551 total time=
0.0s
[CV 4/5; 701/1980] START leaf_size=27, n_neighbors=8...
[CV 2/5; 697/1980] END leaf_size=27, n_neighbors=4;;, score=0.581 total time=
0.0s
[CV 3/5; 697/1980] START leaf_size=27, n_neighbors=4...
[CV 4/5; 704/1980] END leaf_size=27, n_neighbors=11;;, score=0.589 total time=
0.0s
[CV 2/5; 709/1980] END leaf_size=27, n_neighbors=16;;, score=0.575 total time=
0.0s
[CV 5/5; 704/1980] START leaf_size=27, n_neighbors=11...
[CV 3/5; 709/1980] START leaf_size=27, n_neighbors=16...
[CV 2/5; 700/1980] END leaf_size=27, n_neighbors=7;;, score=0.559 total time=
0.0s
[CV 3/5; 700/1980] START leaf_size=27, n_neighbors=7...
[CV 3/5; 706/1980] END leaf_size=27, n_neighbors=13;;, score=0.553 total time=
0.0s
[CV 4/5; 706/1980] START leaf_size=27, n_neighbors=13...

```

[CV 2/5; 703/1980] END leaf\_size=27, n\_neighbors=10;; score=0.568 total time=0.0s  
 [CV 3/5; 703/1980] START leaf\_size=27, n\_neighbors=10...  
 [CV 3/5; 694/1980] END leaf\_size=27, n\_neighbors=1;; score=0.490 total time=0.0s  
 [CV 4/5; 710/1980] START leaf\_size=27, n\_neighbors=17...  
 [CV 4/5; 698/1980] END leaf\_size=27, n\_neighbors=5;; score=0.589 total time=0.0s  
 [CV 5/5; 698/1980] START leaf\_size=27, n\_neighbors=5...  
 [CV 5/5; 707/1980] END leaf\_size=27, n\_neighbors=14;; score=0.606 total time=0.0s  
 [CV 1/5; 708/1980] START leaf\_size=27, n\_neighbors=15...  
 [CV 3/5; 697/1980] END leaf\_size=27, n\_neighbors=4;; score=0.544 total time=0.0s  
 [CV 4/5; 697/1980] START leaf\_size=27, n\_neighbors=4...  
 [CV 3/5; 709/1980] END leaf\_size=27, n\_neighbors=16;; score=0.557 total time=0.0s  
 [CV 4/5; 709/1980] START leaf\_size=27, n\_neighbors=16...  
 [CV 4/5; 706/1980] END leaf\_size=27, n\_neighbors=13;; score=0.574 total time=0.0s  
 [CV 5/5; 706/1980] START leaf\_size=27, n\_neighbors=13...  
 [CV 4/5; 701/1980] END leaf\_size=27, n\_neighbors=8;; score=0.617 total time=0.0s  
 [CV 5/5; 701/1980] START leaf\_size=27, n\_neighbors=8...  
 [CV 5/5; 704/1980] END leaf\_size=27, n\_neighbors=11;; score=0.606 total time=0.0s  
 [CV 1/5; 705/1980] START leaf\_size=27,  
 n\_neighbors=12...[CV 3/5; 700/1980] END leaf\_size=27,  
 n\_neighbors=7;; score=0.551 total time= 0.0s  
  
 [CV 4/5; 700/1980] START leaf\_size=27, n\_neighbors=7...  
 [CV 3/5; 703/1980] END leaf\_size=27, n\_neighbors=10;; score=0.549 total time=0.0s  
 [CV 4/5; 703/1980] START leaf\_size=27, n\_neighbors=10...  
 [CV 4/5; 710/1980] END leaf\_size=27, n\_neighbors=17;; score=0.580 total time=0.0s  
 [CV 5/5; 710/1980] START leaf\_size=27, n\_neighbors=17...  
 [CV 1/5; 708/1980] END leaf\_size=27, n\_neighbors=15;; score=0.637 total time=0.0s  
 [CV 2/5; 708/1980] START leaf\_size=27, n\_neighbors=15...  
 [CV 4/5; 697/1980] END leaf\_size=27, n\_neighbors=4;; score=0.580 total time=0.0s  
 [CV 2/5; 712/1980] START leaf\_size=27, n\_neighbors=19...  
 [CV 4/5; 709/1980] END leaf\_size=27, n\_neighbors=16;; score=0.584 total time=0.0s  
 [CV 5/5; 709/1980] START leaf\_size=27, n\_neighbors=16...  
 [CV 5/5; 706/1980] END leaf\_size=27, n\_neighbors=13;; score=0.591 total time=0.0s

[CV 1/5; 707/1980] START leaf\_size=27, n\_neighbors=14...  
 [CV 4/5; 700/1980] END leaf\_size=27, n\_neighbors=7;; score=0.584 total time=0.0s  
 [CV 5/5; 700/1980] START leaf\_size=27, n\_neighbors=7...  
 [CV 1/5; 705/1980] END leaf\_size=27, n\_neighbors=12;; score=0.648 total time=0.0s  
 [CV 2/5; 705/1980] START leaf\_size=27, n\_neighbors=12...  
 [CV 5/5; 698/1980] END leaf\_size=27, n\_neighbors=5;; score=0.591 total time=0.0s  
 [CV 1/5; 699/1980] START leaf\_size=27, n\_neighbors=6...  
 [CV 5/5; 701/1980] END leaf\_size=27, n\_neighbors=8;; score=0.608 total time=0.0s  
 [CV 1/5; 702/1980] START leaf\_size=27, n\_neighbors=9...  
 [CV 5/5; 710/1980] END leaf\_size=27, n\_neighbors=17;; score=0.610 total time=0.0s  
 [CV 1/5; 711/1980] START leaf\_size=27, n\_neighbors=18...  
 [CV 4/5; 703/1980] END leaf\_size=27, n\_neighbors=10;; score=0.597 total time=0.0s  
 [CV 5/5; 703/1980] START leaf\_size=27, n\_neighbors=10...  
 [CV 2/5; 708/1980] END leaf\_size=27, n\_neighbors=15;; score=0.570 total time=0.0s  
 [CV 3/5; 708/1980] START leaf\_size=27, n\_neighbors=15...  
 [CV 5/5; 709/1980] END leaf\_size=27, n\_neighbors=16;; score=0.621 total time=0.0s  
 [CV 1/5; 710/1980] START leaf\_size=27, n\_neighbors=17...  
 [CV 2/5; 712/1980] END leaf\_size=27, n\_neighbors=19;; score=0.583 total time=0.0s  
 [CV 1/5; 707/1980] END leaf\_size=27, n\_neighbors=14;; score=0.644 total time=0.0s  
 [CV 3/5; 712/1980] START leaf\_size=27, n\_neighbors=19...  
 [CV 2/5; 707/1980] START leaf\_size=27, n\_neighbors=14...  
 [CV 5/5; 700/1980] END leaf\_size=27, n\_neighbors=7;; score=0.613 total time=0.0s  
 [CV 5/5; 713/1980] START leaf\_size=27, n\_neighbors=20...  
 [CV 1/5; 702/1980] END leaf\_size=27, n\_neighbors=9;; score=0.592 total time=0.0s  
 [CV 2/5; 702/1980] START leaf\_size=27, n\_neighbors=9...  
 [CV 1/5; 711/1980] END leaf\_size=27, n\_neighbors=18;; score=0.635 total time=0.0s  
 [CV 2/5; 711/1980] START leaf\_size=27, n\_neighbors=18...  
 [CV 1/5; 699/1980] END leaf\_size=27, n\_neighbors=6;; score=0.570 total time=0.0s  
 [CV 2/5; 699/1980] START leaf\_size=27, n\_neighbors=6...  
 [CV 2/5; 705/1980] END leaf\_size=27, n\_neighbors=12;; score=0.581 total time=0.0s  
 [CV 3/5; 705/1980] START leaf\_size=27, n\_neighbors=12...  
 [CV 5/5; 703/1980] END leaf\_size=27, n\_neighbors=10;; score=0.615 total time=0.0s  
 [CV 3/5; 708/1980] END leaf\_size=27, n\_neighbors=15;; score=0.557 total

```

time= 0.0s
[CV 4/5; 708/1980] START leaf_size=27, n_neighbors=15...

[CV 1/5; 704/1980] START leaf_size=27, n_neighbors=11...
[CV 1/5; 710/1980] END leaf_size=27, n_neighbors=17;; score=0.631 total time=
0.0s
[CV 2/5; 710/1980] START leaf_size=27, n_neighbors=17...
[CV 2/5; 707/1980] END leaf_size=27, n_neighbors=14;; score=0.572 total time=
0.0s
[CV 3/5; 715/1980] START leaf_size=27, n_neighbors=22...
[CV 3/5; 712/1980] END leaf_size=27, n_neighbors=19;; score=0.551 total time=
0.0s
[CV 4/5; 712/1980] START leaf_size=27, n_neighbors=19...
[CV 2/5; 702/1980] END leaf_size=27, n_neighbors=9;; score=0.570 total time=
0.0s
[CV 3/5; 702/1980] START leaf_size=27, n_neighbors=9...
[CV 5/5; 713/1980] END leaf_size=27, n_neighbors=20;; score=0.632 total time=
0.0s
[CV 1/5; 714/1980] START leaf_size=27, n_neighbors=21...
[CV 2/5; 711/1980] END leaf_size=27, n_neighbors=18;; score=0.590 total time=
0.0s
[CV 3/5; 711/1980] START leaf_size=27, n_neighbors=18...
[CV 3/5; 705/1980] END leaf_size=27, n_neighbors=12;; score=0.546 total time=
0.0s
[CV 4/5; 705/1980] START leaf_size=27, n_neighbors=12...
[CV 2/5; 699/1980] END leaf_size=27, n_neighbors=6;; score=0.546 total time=
0.0s
[CV 4/5; 708/1980] END leaf_size=27, n_neighbors=15;; score=0.584 total time=
0.0s
[CV 5/5; 708/1980] START leaf_size=27, n_neighbors=15...
[CV 2/5; 710/1980] END leaf_size=27, n_neighbors=17;; score=0.568 total time=
0.0s
[CV 3/5; 710/1980] START leaf_size=27, n_neighbors=17...
[CV 1/5; 704/1980] END leaf_size=27, n_neighbors=11;; score=0.624 total time=
0.0s
[CV 1/5; 717/1980] START leaf_size=27, n_neighbors=24...
[CV 3/5; 715/1980] END leaf_size=27, n_neighbors=22;; score=0.555 total time=
0.0s
[CV 4/5; 712/1980] END leaf_size=27, n_neighbors=19;; score=0.589 total time=
0.0s[CV 4/5; 715/1980] START leaf_size=27,
n_neighbors=22...

[CV 5/5; 712/1980] START leaf_size=27, n_neighbors=19...
[CV 4/5; 718/1980] START leaf_size=27, n_neighbors=25...
[CV 3/5; 702/1980] END leaf_size=27, n_neighbors=9;; score=0.559 total time=
0.0s
[CV 2/5; 720/1980] START leaf_size=27, n_neighbors=27...
[CV 3/5; 711/1980] END leaf_size=27, n_neighbors=18;; score=0.555 total time=

```

0.0s  
[CV 4/5; 711/1980] START leaf\_size=27, n\_neighbors=18...  
[CV 1/5; 714/1980] END leaf\_size=27, n\_neighbors=21;; score=0.626 total time=0.0s  
[CV 2/5; 714/1980] START leaf\_size=27, n\_neighbors=21...  
[CV 5/5; 708/1980] END leaf\_size=27, n\_neighbors=15;; score=0.615 total time=0.0s  
[CV 5/5; 721/1980] START leaf\_size=27, n\_neighbors=28...  
[CV 4/5; 705/1980] END leaf\_size=27, n\_neighbors=12;; score=0.576 total time=0.0s  
[CV 3/5; 723/1980] START leaf\_size=27, n\_neighbors=30...  
[CV 3/5; 710/1980] END leaf\_size=27, n\_neighbors=17;; score=0.564 total time=0.0s  
[CV 1/5; 725/1980] START leaf\_size=27, n\_neighbors=32...  
[CV 5/5; 712/1980] END leaf\_size=27, n\_neighbors=19;; score=0.626 total time=0.0s  
[CV 1/5; 713/1980] START leaf\_size=27, n\_neighbors=20...  
[CV 4/5; 718/1980] END leaf\_size=27, n\_neighbors=25;; score=0.587 total time=0.0s  
[CV 5/5; 718/1980] START leaf\_size=27, n\_neighbors=25...  
[CV 4/5; 715/1980] END leaf\_size=27, n\_neighbors=22;; score=0.600 total time=0.0s  
[CV 5/5; 715/1980] START leaf\_size=27, n\_neighbors=22...  
[CV 4/5; 711/1980] END leaf\_size=27, n\_neighbors=18;; score=0.600 total time=0.0s  
[CV 5/5; 711/1980] START leaf\_size=27, n\_neighbors=18...  
[CV 2/5; 720/1980] END leaf\_size=27, n\_neighbors=27;; score=0.594 total time=0.0s  
[CV 3/5; 720/1980] START leaf\_size=27, n\_neighbors=27...  
[CV 5/5; 721/1980] END leaf\_size=27, n\_neighbors=28;; score=0.641 total time=0.0s  
[CV 1/5; 722/1980] START leaf\_size=27, n\_neighbors=29...  
[CV 2/5; 714/1980] END leaf\_size=27, n\_neighbors=21;; score=0.581 total time=0.0s  
[CV 3/5; 714/1980] START leaf\_size=27, n\_neighbors=21...  
[CV 1/5; 717/1980] END leaf\_size=27, n\_neighbors=24;; score=0.646 total time=0.0s  
[CV 2/5; 717/1980] START leaf\_size=27, n\_neighbors=24...  
[CV 1/5; 725/1980] END leaf\_size=27, n\_neighbors=32;; score=0.639 total time=0.0s  
[CV 2/5; 725/1980] START leaf\_size=27, n\_neighbors=32...  
[CV 3/5; 723/1980] END leaf\_size=27, n\_neighbors=30;; score=0.579 total time=0.0s  
[CV 4/5; 723/1980] START leaf\_size=27, n\_neighbors=30...  
[CV 1/5; 713/1980] END leaf\_size=27, n\_neighbors=20;; score=0.618 total time=0.0s  
[CV 2/5; 713/1980] START leaf\_size=27, n\_neighbors=20...  
[CV 5/5; 711/1980] END leaf\_size=27, n\_neighbors=18;; score=0.617 total time=

```

0.0s
[CV 1/5; 712/1980] START leaf_size=27, n_neighbors=19...
[CV 5/5; 718/1980] END leaf_size=27, n_neighbors=25;; score=0.647 total time=
0.0s
[CV 1/5; 719/1980] START leaf_size=27, n_neighbors=26...
[CV 1/5; 722/1980] END leaf_size=27, n_neighbors=29;; score=0.646 total time=
0.0s
[CV 2/5; 722/1980] START leaf_size=27, n_neighbors=29...
[CV 3/5; 720/1980] END leaf_size=27, n_neighbors=27;; score=0.568 total time=
0.0s
[CV 4/5; 720/1980] START leaf_size=27, n_neighbors=27...
[CV 5/5; 715/1980] END leaf_size=27, n_neighbors=22;; score=0.628 total time=
0.0s
[CV 1/5; 716/1980] START leaf_size=27, n_neighbors=23...
[CV 3/5; 714/1980] END leaf_size=27, n_neighbors=21;; score=0.559 total time=
0.0s
[CV 4/5; 714/1980] START leaf_size=27, n_neighbors=21...
[CV 2/5; 713/1980] END leaf_size=27, n_neighbors=20;; score=0.583 total time=
0.0s
[CV 3/5; 713/1980] START leaf_size=27, n_neighbors=20...
[CV 2/5; 725/1980] END leaf_size=27, n_neighbors=32;; score=0.605 total time=
0.0s
[CV 3/5; 725/1980] START leaf_size=27, n_neighbors=32...
[CV 2/5; 717/1980] END leaf_size=27, n_neighbors=24;; score=0.596 total time=
0.0s[CV 4/5; 723/1980] END leaf_size=27, n_neighbors=30;; score=0.595 total
time= 0.0s

[CV 5/5; 723/1980] START leaf_size=27, n_neighbors=30...
[CV 3/5; 717/1980] START leaf_size=27, n_neighbors=24...
[CV 1/5; 712/1980] END leaf_size=27, n_neighbors=19;; score=0.637 total time=
0.0s
[CV 4/5; 726/1980] START leaf_size=27, n_neighbors=33...
[CV 2/5; 722/1980] END leaf_size=27, n_neighbors=29;; score=0.600 total time=
0.0s
[CV 3/5; 722/1980] START leaf_size=27, n_neighbors=29...
[CV 1/5; 719/1980] END leaf_size=27, n_neighbors=26;; score=0.639 total time=
0.0s
[CV 2/5; 719/1980] START leaf_size=27, n_neighbors=26...
[CV 4/5; 720/1980] END leaf_size=27, n_neighbors=27;; score=0.593 total time=
0.0s
[CV 5/5; 720/1980] START leaf_size=27, n_neighbors=27...
[CV 3/5; 713/1980] END leaf_size=27, n_neighbors=20;; score=0.553 total time=
0.0s
[CV 4/5; 713/1980] START leaf_size=27, n_neighbors=20...
[CV 3/5; 725/1980] END leaf_size=27, n_neighbors=32;; score=0.577 total time=
0.0s
[CV 4/5; 725/1980] START leaf_size=27, n_neighbors=32...
[CV 4/5; 726/1980] END leaf_size=27, n_neighbors=33;; score=0.597 total time=

```

```

0.0s
[CV 5/5; 726/1980] START leaf_size=27, n_neighbors=33...
[CV 5/5; 723/1980] END leaf_size=27, n_neighbors=30;; score=0.632 total time=
0.0s
[CV 1/5; 724/1980] START leaf_size=27, n_neighbors=31...
[CV 4/5; 714/1980] END leaf_size=27, n_neighbors=21;; score=0.606 total time=
0.0s[CV 3/5; 717/1980] END leaf_size=27, n_neighbors=24;; score=0.564 total
time= 0.0s
[CV 4/5; 717/1980] START leaf_size=27, n_neighbors=24...
[CV 3/5; 722/1980] END leaf_size=27, n_neighbors=29;; score=0.577 total time=
0.0s

[CV 1/5; 716/1980] END leaf_size=27, n_neighbors=23;; score=0.646 total time=
0.1s
[CV 4/5; 722/1980] START leaf_size=27, n_neighbors=29...
[CV 2/5; 716/1980] START leaf_size=27, n_neighbors=23...
[CV 5/5; 714/1980] START leaf_size=27, n_neighbors=21...
[CV 2/5; 719/1980] END leaf_size=27, n_neighbors=26;; score=0.600 total time=
0.0s
[CV 3/5; 719/1980] START leaf_size=27, n_neighbors=26...
[CV 4/5; 713/1980] END leaf_size=27, n_neighbors=20;; score=0.600 total time=
0.0s
[CV 4/5; 725/1980] END leaf_size=27, n_neighbors=32;; score=0.593 total time=
0.0s
[CV 5/5; 720/1980] END leaf_size=27, n_neighbors=27;; score=0.630 total time=
0.0s
[CV 5/5; 725/1980] START leaf_size=27, n_neighbors=32...
[CV 1/5; 721/1980] START leaf_size=27, n_neighbors=28...
[CV 2/5; 728/1980] START leaf_size=27, n_neighbors=35...
[CV 5/5; 726/1980] END leaf_size=27, n_neighbors=33;; score=0.630 total time=
0.0s
[CV 1/5; 727/1980] START leaf_size=27, n_neighbors=34...
[CV 1/5; 724/1980] END leaf_size=27, n_neighbors=31;; score=0.644 total time=
0.0s
[CV 2/5; 724/1980] START leaf_size=27, n_neighbors=31...
[CV 4/5; 722/1980] END leaf_size=27, n_neighbors=29;; score=0.600 total time=
0.0s
[CV 5/5; 722/1980] START leaf_size=27, n_neighbors=29...
[CV 5/5; 714/1980] END leaf_size=27, n_neighbors=21;; score=0.621 total time=
0.0s
[CV 1/5; 715/1980] START leaf_size=27, n_neighbors=22...
[CV 5/5; 725/1980] END leaf_size=27, n_neighbors=32;; score=0.628 total time=
0.0s
[CV 1/5; 726/1980] START leaf_size=27, n_neighbors=33...
[CV 3/5; 719/1980] END leaf_size=27, n_neighbors=26;; score=0.564 total time=
0.0s
[CV 4/5; 719/1980] START leaf_size=27, n_neighbors=26...
[CV 2/5; 728/1980] END leaf_size=27, n_neighbors=35;; score=0.607 total time=

```

```

0.0s
[CV 3/5; 728/1980] START leaf_size=27, n_neighbors=35...
[CV 1/5; 721/1980] END leaf_size=27, n_neighbors=28;; score=0.650 total time=
0.0s
[CV 2/5; 721/1980] START leaf_size=27, n_neighbors=28...
[CV 1/5; 727/1980] END leaf_size=27, n_neighbors=34;; score=0.644 total time=
0.0s
[CV 2/5; 727/1980] START leaf_size=27, n_neighbors=34...
[CV 2/5; 724/1980] END leaf_size=27, n_neighbors=31;; score=0.603 total time=
0.0s
[CV 3/5; 724/1980] START leaf_size=27, n_neighbors=31...
[CV 5/5; 722/1980] END leaf_size=27, n_neighbors=29;; score=0.639 total time=
0.0s
[CV 1/5; 723/1980] START leaf_size=27, n_neighbors=30...
[CV 2/5; 716/1980] END leaf_size=27, n_neighbors=23;; score=0.583 total time=
0.1s[CV 1/5; 726/1980] END leaf_size=27, n_neighbors=33;; score=0.646 total
time= 0.0s
[CV 2/5; 726/1980] START leaf_size=27, n_neighbors=33...
[CV 1/5; 715/1980] END leaf_size=27, n_neighbors=22;; score=0.622 total time=
0.0s
[CV 2/5; 715/1980] START leaf_size=27, n_neighbors=22...
[CV 3/5; 728/1980] END leaf_size=27, n_neighbors=35;; score=0.572 total time=
0.0s
[CV 4/5; 728/1980] START leaf_size=27, n_neighbors=35...

[CV 3/5; 716/1980] START leaf_size=27, n_neighbors=23...
[CV 4/5; 717/1980] END leaf_size=27, n_neighbors=24;; score=0.597 total time=
0.1s[CV 3/5; 724/1980] END leaf_size=27, n_neighbors=31;; score=0.570 total
time= 0.0s

[CV 4/5; 724/1980] START leaf_size=27, n_neighbors=31...
[CV 5/5; 717/1980] START leaf_size=27, n_neighbors=24...
[CV 2/5; 727/1980] END leaf_size=27, n_neighbors=34;; score=0.600 total time=
0.0s
[CV 3/5; 727/1980] START leaf_size=27, n_neighbors=34...
[CV 2/5; 721/1980] END leaf_size=27, n_neighbors=28;; score=0.598 total time=
0.0s
[CV 3/5; 721/1980] START leaf_size=27, n_neighbors=28...
[CV 1/5; 723/1980] END leaf_size=27, n_neighbors=30;; score=0.639 total time=
0.0s
[CV 2/5; 723/1980] START leaf_size=27, n_neighbors=30...
[CV 4/5; 719/1980] END leaf_size=27, n_neighbors=26;; score=0.593 total time=
0.0s
[CV 5/5; 719/1980] START leaf_size=27, n_neighbors=26...
[CV 2/5; 726/1980] END leaf_size=27, n_neighbors=33;; score=0.607 total time=
0.0s
[CV 3/5; 726/1980] START leaf_size=27, n_neighbors=33...
[CV 4/5; 728/1980] END leaf_size=27, n_neighbors=35;; score=0.604 total time=

```



```

0.0s
[CV 5/5; 728/1980] START leaf_size=27, n_neighbors=35...
[CV 2/5; 715/1980] END leaf_size=27, n_neighbors=22;;, score=0.587 total time=
0.0s
[CV 3/5; 716/1980] END leaf_size=27, n_neighbors=23;;, score=0.557 total time=
0.0s
[CV 4/5; 716/1980] START leaf_size=27, n_neighbors=23...
[CV 5/5; 729/1980] START leaf_size=27, n_neighbors=36...
[CV 4/5; 724/1980] END leaf_size=27, n_neighbors=31;;, score=0.595 total time=
0.0s
[CV 5/5; 724/1980] START leaf_size=27, n_neighbors=31...
[CV 3/5; 727/1980] END leaf_size=27, n_neighbors=34;;, score=0.577 total time=
0.0s
[CV 4/5; 727/1980] START leaf_size=27, n_neighbors=34...
[CV 5/5; 717/1980] END leaf_size=27, n_neighbors=24;;, score=0.647 total time=
0.0s
[CV 1/5; 718/1980] START leaf_size=27, n_neighbors=25...
[CV 2/5; 723/1980] END leaf_size=27, n_neighbors=30;;, score=0.607 total time=
0.0s
[CV 3/5; 721/1980] END leaf_size=27, n_neighbors=28;;, score=0.568 total time=
0.0s
[CV 4/5; 721/1980] START leaf_size=27, n_neighbors=28...
[CV 3/5; 731/1980] START leaf_size=27, n_neighbors=38...
[CV 5/5; 719/1980] END leaf_size=27, n_neighbors=26;;, score=0.628 total time=
0.0s
[CV 1/5; 720/1980] START leaf_size=27, n_neighbors=27...
[CV 3/5; 726/1980] END leaf_size=27, n_neighbors=33;;, score=0.570 total time=
0.0s
[CV 5/5; 728/1980] END leaf_size=27, n_neighbors=35;;, score=0.639 total time=
0.0s
[CV 1/5; 729/1980] START leaf_size=27, n_neighbors=36...
[CV 1/5; 733/1980] START leaf_size=27,
n_neighbors=40...[CV 1/5; 718/1980] END leaf_size=27,
n_neighbors=25;;, score=0.646 total time= 0.0s

[CV 2/5; 718/1980] START leaf_size=27, n_neighbors=25...
[CV 4/5; 727/1980] END leaf_size=27, n_neighbors=34;;, score=0.597 total time=
0.0s
[CV 5/5; 727/1980] START leaf_size=27, n_neighbors=34...
[CV 5/5; 729/1980] END leaf_size=27, n_neighbors=36;;, score=0.628 total time=
0.0s[CV 3/5; 731/1980] END leaf_size=27, n_neighbors=38;;, score=0.566 total
time= 0.0s
[CV 4/5; 731/1980] START leaf_size=27, n_neighbors=38...
[CV 4/5; 721/1980] END leaf_size=27, n_neighbors=28;;, score=0.597 total time=
0.0s

[CV 1/5; 730/1980] START leaf_size=27, n_neighbors=37...
[CV 4/5; 734/1980] START leaf_size=27, n_neighbors=41...

```

[CV 1/5; 720/1980] END leaf\_size=27, n\_neighbors=27;; score=0.650 total time=0.0s  
 [CV 5/5; 724/1980] END leaf\_size=27, n\_neighbors=31;; score=0.634 total time=0.0s  
 [CV 2/5; 736/1980] START leaf\_size=27, n\_neighbors=43...  
 [CV 1/5; 729/1980] END leaf\_size=27, n\_neighbors=36;; score=0.644 total time=0.0s  
 [CV 2/5; 729/1980] START leaf\_size=27, n\_neighbors=36...  
 [CV 5/5; 737/1980] START leaf\_size=27, n\_neighbors=44...  
 [CV 2/5; 718/1980] END leaf\_size=27, n\_neighbors=25;; score=0.598 total time=0.0s  
 [CV 3/5; 718/1980] START leaf\_size=27, n\_neighbors=25...  
 [CV 4/5; 716/1980] END leaf\_size=27, n\_neighbors=23;; score=0.600 total time=0.1s  
 [CV 5/5; 716/1980] START leaf\_size=27, n\_neighbors=23...  
 [CV 1/5; 733/1980] END leaf\_size=27, n\_neighbors=40;; score=0.661 total time=0.0s  
 [CV 2/5; 733/1980] START leaf\_size=27, n\_neighbors=40...  
 [CV 4/5; 731/1980] END leaf\_size=27, n\_neighbors=38;; score=0.602 total time=0.0s  
 [CV 5/5; 731/1980] START leaf\_size=27, n\_neighbors=38...  
 [CV 5/5; 727/1980] END leaf\_size=27, n\_neighbors=34;; score=0.634 total time=0.0s  
 [CV 1/5; 728/1980] START leaf\_size=27, n\_neighbors=35...  
 [CV 5/5; 737/1980] END leaf\_size=27, n\_neighbors=44;; score=0.615 total time=0.0s  
 [CV 2/5; 729/1980] END leaf\_size=27, n\_neighbors=36;; score=0.616 total time=0.0s  
 [CV 1/5; 738/1980] START leaf\_size=27, n\_neighbors=45...  
 [CV 3/5; 729/1980] START leaf\_size=27, n\_neighbors=36...  
 [CV 4/5; 734/1980] END leaf\_size=27, n\_neighbors=41;; score=0.610 total time=0.0s  
 [CV 5/5; 734/1980] START leaf\_size=27, n\_neighbors=41...  
 [CV 2/5; 736/1980] END leaf\_size=27, n\_neighbors=43;; score=0.616 total time=0.0s  
 [CV 3/5; 736/1980] START leaf\_size=27, n\_neighbors=43...  
 [CV 3/5; 718/1980] END leaf\_size=27, n\_neighbors=25;; score=0.557 total time=0.0s  
 [CV 5/5; 731/1980] END leaf\_size=27, n\_neighbors=38;; score=0.634 total time=0.0s  
 [CV 1/5; 732/1980] START leaf\_size=27, n\_neighbors=39...  
 [CV 3/5; 739/1980] START leaf\_size=27, n\_neighbors=46...  
 [CV 5/5; 716/1980] END leaf\_size=27, n\_neighbors=23;; score=0.643 total time=0.0s  
 [CV 2/5; 733/1980] END leaf\_size=27, n\_neighbors=40;; score=0.611 total time=0.0s  
 [CV 3/5; 733/1980] START leaf\_size=27, n\_neighbors=40...  
 [CV 1/5; 741/1980] START leaf\_size=27, n\_neighbors=48...

[CV 1/5; 728/1980] END leaf\_size=27, n\_neighbors=35;; score=0.650 total time=0.0s  
 [CV 4/5; 742/1980] START leaf\_size=27, n\_neighbors=49...  
 [CV 3/5; 729/1980] END leaf\_size=27, n\_neighbors=36;; score=0.566 total time=0.0s  
 [CV 4/5; 729/1980] START leaf\_size=27, n\_neighbors=36...  
 [CV 1/5; 738/1980] END leaf\_size=27, n\_neighbors=45;; score=0.678 total time=0.0s  
 [CV 2/5; 738/1980] START leaf\_size=27, n\_neighbors=45...  
 [CV 1/5; 730/1980] END leaf\_size=27, n\_neighbors=37;; score=0.657 total time=0.1s  
 [CV 2/5; 730/1980] START leaf\_size=27, n\_neighbors=37...  
 [CV 3/5; 736/1980] END leaf\_size=27, n\_neighbors=43;; score=0.566 total time=0.0s  
 [CV 4/5; 736/1980] START leaf\_size=27, n\_neighbors=43...  
 [CV 5/5; 734/1980] END leaf\_size=27, n\_neighbors=41;; score=0.619 total time=0.0s  
 [CV 1/5; 735/1980] START leaf\_size=27, n\_neighbors=42...  
 [CV 1/5; 732/1980] END leaf\_size=27, n\_neighbors=39;; score=0.654 total time=0.0s  
 [CV 2/5; 732/1980] START leaf\_size=27, n\_neighbors=39...  
 [CV 3/5; 739/1980] END leaf\_size=27, n\_neighbors=46;; score=0.572 total time=0.0s  
 [CV 4/5; 739/1980] START leaf\_size=27, n\_neighbors=46...  
 [CV 3/5; 733/1980] END leaf\_size=27, n\_neighbors=40;; score=0.572 total time=0.0s  
 [CV 4/5; 733/1980] START leaf\_size=27, n\_neighbors=40...  
 [CV 1/5; 741/1980] END leaf\_size=27, n\_neighbors=48;; score=0.672 total time=0.0s  
 [CV 2/5; 741/1980] START leaf\_size=27, n\_neighbors=48...  
 [CV 4/5; 742/1980] END leaf\_size=27, n\_neighbors=49;; score=0.593 total time=0.0s  
 [CV 5/5; 742/1980] START leaf\_size=27, n\_neighbors=49...  
 [CV 4/5; 729/1980] END leaf\_size=27, n\_neighbors=36;; score=0.600 total time=0.0s  
 [CV 2/5; 738/1980] END leaf\_size=27, n\_neighbors=45;; score=0.611 total time=0.0s  
 [CV 3/5; 738/1980] START leaf\_size=27, n\_neighbors=45...  
 [CV 2/5; 744/1980] START leaf\_size=27, n\_neighbors=51...  
 [CV 2/5; 730/1980] END leaf\_size=27, n\_neighbors=37;; score=0.607 total time=0.0s  
 [CV 3/5; 730/1980] START leaf\_size=27, n\_neighbors=37...  
 [CV 2/5; 732/1980] END leaf\_size=27, n\_neighbors=39;; score=0.609 total time=0.0s  
 [CV 3/5; 732/1980] START leaf\_size=27, n\_neighbors=39...  
 [CV 4/5; 736/1980] END leaf\_size=27, n\_neighbors=43;; score=0.600 total time=0.0s  
 [CV 5/5; 736/1980] START leaf\_size=27, n\_neighbors=43...

[CV 4/5; 733/1980] END leaf\_size=27, n\_neighbors=40;; score=0.595 total time=0.0s  
 [CV 5/5; 733/1980] START leaf\_size=27, n\_neighbors=40...  
 [CV 1/5; 735/1980] END leaf\_size=27, n\_neighbors=42;; score=0.667 total time=0.0s  
 [CV 2/5; 735/1980] START leaf\_size=27, n\_neighbors=42...  
 [CV 4/5; 739/1980] END leaf\_size=27, n\_neighbors=46;; score=0.597 total time=0.0s  
 [CV 5/5; 739/1980] START leaf\_size=27, n\_neighbors=46...  
 [CV 5/5; 742/1980] END leaf\_size=27, n\_neighbors=49;; score=0.623 total time=0.0s  
 [CV 1/5; 743/1980] START leaf\_size=27, n\_neighbors=50...  
 [CV 3/5; 738/1980] END leaf\_size=27, n\_neighbors=45;; score=0.575 total time=0.0s  
 [CV 4/5; 738/1980] START leaf\_size=27, n\_neighbors=45...  
 [CV 2/5; 741/1980] END leaf\_size=27, n\_neighbors=48;; score=0.609 total time=0.0s  
 [CV 3/5; 741/1980] START leaf\_size=27, n\_neighbors=48...  
 [CV 2/5; 744/1980] END leaf\_size=27, n\_neighbors=51;; score=0.618 total time=0.0s  
 [CV 3/5; 744/1980] START leaf\_size=27, n\_neighbors=51...  
 [CV 3/5; 732/1980] END leaf\_size=27, n\_neighbors=39;; score=0.575 total time=0.0s  
 [CV 4/5; 732/1980] START leaf\_size=27, n\_neighbors=39...  
 [CV 5/5; 733/1980] END leaf\_size=27, n\_neighbors=40;; score=0.617 total time=0.0s  
 [CV 1/5; 734/1980] START leaf\_size=27, n\_neighbors=41...  
 [CV 3/5; 730/1980] END leaf\_size=27, n\_neighbors=37;; score=0.568 total time=0.0s  
 [CV 4/5; 730/1980] START leaf\_size=27, n\_neighbors=37...  
 [CV 5/5; 736/1980] END leaf\_size=27, n\_neighbors=43;; score=0.615 total time=0.0s  
 [CV 1/5; 737/1980] START leaf\_size=27, n\_neighbors=44...  
 [CV 4/5; 738/1980] END leaf\_size=27, n\_neighbors=45;; score=0.600 total time=0.0s  
 [CV 5/5; 738/1980] START leaf\_size=27, n\_neighbors=45...  
 [CV 1/5; 743/1980] END leaf\_size=27, n\_neighbors=50;; score=0.678 total time=0.0s  
 [CV 2/5; 743/1980] START leaf\_size=27, n\_neighbors=50...  
 [CV 2/5; 735/1980] END leaf\_size=27, n\_neighbors=42;; score=0.618 total time=0.0s  
 [CV 3/5; 735/1980] START leaf\_size=27, n\_neighbors=42...  
 [CV 5/5; 739/1980] END leaf\_size=27, n\_neighbors=46;; score=0.619 total time=0.0s  
 [CV 1/5; 740/1980] START leaf\_size=27, n\_neighbors=47...  
 [CV 3/5; 744/1980] END leaf\_size=27, n\_neighbors=51;; score=0.566 total time=0.0s  
 [CV 4/5; 744/1980] START leaf\_size=27, n\_neighbors=51...

[CV 3/5; 741/1980] END leaf\_size=27, n\_neighbors=48;; score=0.562 total time=0.0s  
 [CV 4/5; 741/1980] START leaf\_size=27, n\_neighbors=48...  
 [CV 4/5; 732/1980] END leaf\_size=27, n\_neighbors=39;; score=0.602 total time=0.0s  
 [CV 5/5; 732/1980] START leaf\_size=27, n\_neighbors=39...  
 [CV 1/5; 734/1980] END leaf\_size=27, n\_neighbors=41;; score=0.665 total time=0.0s  
 [CV 2/5; 734/1980] START leaf\_size=27, n\_neighbors=41...  
 [CV 5/5; 738/1980] END leaf\_size=27, n\_neighbors=45;; score=0.619 total time=0.0s  
 [CV 1/5; 739/1980] START leaf\_size=27, n\_neighbors=46...  
 [CV 1/5; 737/1980] END leaf\_size=27, n\_neighbors=44;; score=0.667 total time=0.0s  
 [CV 2/5; 737/1980] START leaf\_size=27, n\_neighbors=44...  
 [CV 2/5; 743/1980] END leaf\_size=27, n\_neighbors=50;; score=0.603 total time=0.0s  
 [CV 3/5; 743/1980] START leaf\_size=27, n\_neighbors=50...  
 [CV 4/5; 730/1980] END leaf\_size=27, n\_neighbors=37;; score=0.610 total time=0.0s  
 [CV 5/5; 730/1980] START leaf\_size=27, n\_neighbors=37...  
 [CV 4/5; 744/1980] END leaf\_size=27, n\_neighbors=51;; score=0.602 total time=0.0s  
 [CV 5/5; 744/1980] START leaf\_size=27, n\_neighbors=51...  
 [CV 1/5; 740/1980] END leaf\_size=27, n\_neighbors=47;; score=0.676 total time=0.0s  
 [CV 2/5; 740/1980] START leaf\_size=27, n\_neighbors=47...  
 [CV 3/5; 735/1980] END leaf\_size=27, n\_neighbors=42;; score=0.564 total time=0.0s  
 [CV 5/5; 732/1980] END leaf\_size=27, n\_neighbors=39;; score=0.636 total time= 0.0s  
  
 [CV 4/5; 735/1980] START leaf\_size=27, n\_neighbors=42...  
 [CV 2/5; 734/1980] END leaf\_size=27, n\_neighbors=41;; score=0.618 total time=0.0s  
 [CV 3/5; 734/1980] START leaf\_size=27, n\_neighbors=41...  
 [CV 5/5; 745/1980] START leaf\_size=27, n\_neighbors=52...  
 [CV 4/5; 741/1980] END leaf\_size=27, n\_neighbors=48;; score=0.589 total time=0.0s  
 [CV 5/5; 741/1980] START leaf\_size=27, n\_neighbors=48...  
 [CV 1/5; 739/1980] END leaf\_size=27, n\_neighbors=46;; score=0.672 total time=0.0s  
 [CV 2/5; 739/1980] START leaf\_size=27, n\_neighbors=46...  
 [CV 3/5; 743/1980] END leaf\_size=27, n\_neighbors=50;; score=0.557 total time=0.0s  
 [CV 4/5; 743/1980] START leaf\_size=27, n\_neighbors=50...  
 [CV 2/5; 737/1980] END leaf\_size=27, n\_neighbors=44;; score=0.613 total time=0.0s  
 [CV 3/5; 737/1980] START leaf\_size=27, n\_neighbors=44...

[CV 5/5; 744/1980] END leaf\_size=27, n\_neighbors=51;; score=0.621 total time=0.0s  
 [CV 1/5; 745/1980] START leaf\_size=27, n\_neighbors=52...  
 [CV 3/5; 734/1980] END leaf\_size=27, n\_neighbors=41;; score=0.568 total time=0.0s  
 [CV 5/5; 745/1980] END leaf\_size=27, n\_neighbors=52;; score=0.619 total time=0.0s  
 [CV 1/5; 746/1980] START leaf\_size=27, n\_neighbors=53...  
 [CV 3/5; 747/1980] START leaf\_size=27, n\_neighbors=54...  
 [CV 2/5; 740/1980] END leaf\_size=27, n\_neighbors=47;; score=0.611 total time=0.0s  
 [CV 3/5; 740/1980] START leaf\_size=27, n\_neighbors=47...  
 [CV 5/5; 741/1980] END leaf\_size=27, n\_neighbors=48;; score=0.630 total time=0.0s  
 [CV 1/5; 742/1980] START leaf\_size=27, n\_neighbors=49...  
 [CV 4/5; 735/1980] END leaf\_size=27, n\_neighbors=42;; score=0.608 total time=0.0s  
 [CV 5/5; 735/1980] START leaf\_size=27, n\_neighbors=42...  
 [CV 5/5; 730/1980] END leaf\_size=27, n\_neighbors=37;; score=0.628 total time=0.0s  
 [CV 1/5; 731/1980] START leaf\_size=27, n\_neighbors=38...  
 [CV 2/5; 739/1980] END leaf\_size=27, n\_neighbors=46;; score=0.616 total time=0.0s  
 [CV 3/5; 737/1980] END leaf\_size=27, n\_neighbors=44;; score=0.570 total time=0.0s  
 [CV 4/5; 737/1980] START leaf\_size=27, n\_neighbors=44...  
 [CV 4/5; 743/1980] END leaf\_size=27, n\_neighbors=50;; score=0.597 total time=0.0s  
 [CV 5/5; 743/1980] START leaf\_size=27, n\_neighbors=50...  
 [CV 1/5; 749/1980] START leaf\_size=27, n\_neighbors=56...  
 [CV 1/5; 745/1980] END leaf\_size=27, n\_neighbors=52;; score=0.676 total time=0.0s  
 [CV 2/5; 745/1980] START leaf\_size=27, n\_neighbors=52...  
 [CV 3/5; 747/1980] END leaf\_size=27, n\_neighbors=54;; score=0.562 total time=0.0s  
 [CV 4/5; 747/1980] START leaf\_size=27, n\_neighbors=54...  
 [CV 1/5; 742/1980] END leaf\_size=27, n\_neighbors=49;; score=0.676 total time=0.0s  
 [CV 2/5; 742/1980] START leaf\_size=27, n\_neighbors=49...  
 [CV 1/5; 746/1980] END leaf\_size=27, n\_neighbors=53;; score=0.678 total time=0.0s  
 [CV 2/5; 746/1980] START leaf\_size=27, n\_neighbors=53...  
 [CV 5/5; 735/1980] END leaf\_size=27, n\_neighbors=42;; score=0.621 total time=0.0s  
 [CV 1/5; 736/1980] START leaf\_size=27, n\_neighbors=43...  
 [CV 3/5; 740/1980] END leaf\_size=27, n\_neighbors=47;; score=0.572 total time=0.0s  
 [CV 4/5; 740/1980] START leaf\_size=27, n\_neighbors=47...

[CV 4/5; 737/1980] END leaf\_size=27, n\_neighbors=44;; score=0.597 total time=0.0s  
 [CV 5/5; 743/1980] END leaf\_size=27, n\_neighbors=50;; score=0.619 total time=0.0s  
 [CV 1/5; 744/1980] START leaf\_size=27, n\_neighbors=51...  
 [CV 4/5; 750/1980] START leaf\_size=27, n\_neighbors=57...  
 [CV 1/5; 749/1980] END leaf\_size=27, n\_neighbors=56;; score=0.670 total time=0.0s  
 [CV 2/5; 745/1980] END leaf\_size=27, n\_neighbors=52;; score=0.611 total time=0.0s  
 [CV 3/5; 745/1980] START leaf\_size=27, n\_neighbors=52...  
 [CV 2/5; 749/1980] START leaf\_size=27, n\_neighbors=56...  
 [CV 4/5; 747/1980] END leaf\_size=27, n\_neighbors=54;; score=0.595 total time=0.0s  
 [CV 5/5; 747/1980] START leaf\_size=27, n\_neighbors=54...  
 [CV 2/5; 746/1980] END leaf\_size=27, n\_neighbors=53;; score=0.611 total time=0.0s  
 [CV 3/5; 746/1980] START leaf\_size=27, n\_neighbors=53...  
 [CV 2/5; 742/1980] END leaf\_size=27, n\_neighbors=49;; score=0.622 total time=0.0s  
 [CV 3/5; 742/1980] START leaf\_size=27, n\_neighbors=49...  
 [CV 1/5; 736/1980] END leaf\_size=27, n\_neighbors=43;; score=0.674 total time=0.0s  
 [CV 2/5; 752/1980] START leaf\_size=27, n\_neighbors=59...  
 [CV 1/5; 731/1980] END leaf\_size=27, n\_neighbors=38;; score=0.652 total time=0.1s  
 [CV 2/5; 731/1980] START leaf\_size=27, n\_neighbors=38...  
 [CV 1/5; 744/1980] END leaf\_size=27, n\_neighbors=51;; score=0.680 total time=0.0s  
 [CV 4/5; 750/1980] END leaf\_size=27, n\_neighbors=57;; score=0.597 total time=0.0s  
 [CV 5/5; 750/1980] START leaf\_size=27, n\_neighbors=57...  
 [CV 5/5; 753/1980] START leaf\_size=27, n\_neighbors=60...  
 [CV 4/5; 740/1980] END leaf\_size=27, n\_neighbors=47;; score=0.589 total time=0.0s  
 [CV 5/5; 740/1980] START leaf\_size=27, n\_neighbors=47...  
 [CV 3/5; 745/1980] END leaf\_size=27, n\_neighbors=52;; score=0.566 total time=0.0s  
 [CV 4/5; 745/1980] START leaf\_size=27, n\_neighbors=52...  
 [CV 2/5; 749/1980] END leaf\_size=27, n\_neighbors=56;; score=0.609 total time=0.0s  
 [CV 3/5; 749/1980] START leaf\_size=27, n\_neighbors=56...  
 [CV 5/5; 747/1980] END leaf\_size=27, n\_neighbors=54;; score=0.608 total time=0.0s  
 [CV 1/5; 748/1980] START leaf\_size=27, n\_neighbors=55...  
 [CV 3/5; 746/1980] END leaf\_size=27, n\_neighbors=53;; score=0.572 total time=0.0s  
 [CV 4/5; 746/1980] START leaf\_size=27, n\_neighbors=53...

[CV 3/5; 742/1980] END leaf\_size=27, n\_neighbors=49;; score=0.568 total time=0.0s  
 [CV 3/5; 755/1980] START leaf\_size=27, n\_neighbors=62...  
 [CV 2/5; 752/1980] END leaf\_size=27, n\_neighbors=59;; score=0.609 total time=0.0s  
 [CV 3/5; 752/1980] START leaf\_size=27, n\_neighbors=59...  
 [CV 4/5; 745/1980] END leaf\_size=27, n\_neighbors=52;; score=0.597 total time=0.0s  
 [CV 5/5; 753/1980] END leaf\_size=27, n\_neighbors=60;; score=0.604 total time= 0.0s  
  
 [CV 1/5; 754/1980] START leaf\_size=27, n\_neighbors=61...  
 [CV 1/5; 757/1980] START leaf\_size=27, n\_neighbors=64...  
 [CV 5/5; 740/1980] END leaf\_size=27, n\_neighbors=47;; score=0.623 total time=0.0s  
 [CV 4/5; 758/1980] START leaf\_size=27, n\_neighbors=65...  
 [CV 1/5; 748/1980] END leaf\_size=27, n\_neighbors=55;; score=0.667 total time=0.0s  
 [CV 2/5; 748/1980] START leaf\_size=27, n\_neighbors=55...  
 [CV 4/5; 746/1980] END leaf\_size=27, n\_neighbors=53;; score=0.600 total time=0.0s  
 [CV 5/5; 746/1980] START leaf\_size=27, n\_neighbors=53...  
 [CV 3/5; 755/1980] END leaf\_size=27, n\_neighbors=62;; score=0.555 total time=0.0s  
 [CV 4/5; 755/1980] START leaf\_size=27, n\_neighbors=62...  
 [CV 2/5; 731/1980] END leaf\_size=27, n\_neighbors=38;; score=0.613 total time=0.1s  
 [CV 2/5; 760/1980] START leaf\_size=27, n\_neighbors=67...  
 [CV 5/5; 750/1980] END leaf\_size=27, n\_neighbors=57;; score=0.610 total time=0.1s  
 [CV 1/5; 751/1980] START leaf\_size=27, n\_neighbors=58...  
 [CV 1/5; 754/1980] END leaf\_size=27, n\_neighbors=61;; score=0.665 total time=0.0s  
 [CV 2/5; 754/1980] START leaf\_size=27, n\_neighbors=61...  
 [CV 1/5; 757/1980] END leaf\_size=27, n\_neighbors=64;; score=0.663 total time=0.0s  
 [CV 2/5; 757/1980] START leaf\_size=27, n\_neighbors=64...  
 [CV 2/5; 748/1980] END leaf\_size=27, n\_neighbors=55;; score=0.618 total time=0.0s  
 [CV 3/5; 748/1980] START leaf\_size=27, n\_neighbors=55...  
 [CV 5/5; 746/1980] END leaf\_size=27, n\_neighbors=53;; score=0.613 total time=0.0s  
 [CV 1/5; 747/1980] START leaf\_size=27, n\_neighbors=54...  
 [CV 4/5; 755/1980] END leaf\_size=27, n\_neighbors=62;; score=0.600 total time=0.0s  
 [CV 5/5; 755/1980] START leaf\_size=27, n\_neighbors=62...  
 [CV 3/5; 752/1980] END leaf\_size=27, n\_neighbors=59;; score=0.553 total time=0.1s  
 [CV 4/5; 752/1980] START leaf\_size=27, n\_neighbors=59...



[CV 3/5; 749/1980] END leaf\_size=27, n\_neighbors=56;; score=0.551 total time=0.1s  
 [CV 4/5; 749/1980] START leaf\_size=27, n\_neighbors=56...  
 [CV 2/5; 754/1980] END leaf\_size=27, n\_neighbors=61;; score=0.603 total time=0.0s  
 [CV 3/5; 754/1980] START leaf\_size=27, n\_neighbors=61...  
 [CV 2/5; 757/1980] END leaf\_size=27, n\_neighbors=64;; score=0.609 total time=0.0s  
 [CV 3/5; 757/1980] START leaf\_size=27, n\_neighbors=64...  
 [CV 3/5; 748/1980] END leaf\_size=27, n\_neighbors=55;; score=0.564 total time=0.0s  
 [CV 4/5; 748/1980] START leaf\_size=27, n\_neighbors=55...  
 [CV 4/5; 758/1980] END leaf\_size=27, n\_neighbors=65;; score=0.591 total time=0.1s  
 [CV 5/5; 758/1980] START leaf\_size=27, n\_neighbors=65...  
 [CV 1/5; 747/1980] END leaf\_size=27, n\_neighbors=54;; score=0.667 total time=0.0s  
 [CV 2/5; 747/1980] START leaf\_size=27, n\_neighbors=54...  
 [CV 5/5; 755/1980] END leaf\_size=27, n\_neighbors=62;; score=0.610 total time=0.0s  
 [CV 1/5; 756/1980] START leaf\_size=27, n\_neighbors=63...  
 [CV 1/5; 751/1980] END leaf\_size=27, n\_neighbors=58;; score=0.665 total time=0.1s  
 [CV 2/5; 751/1980] START leaf\_size=27, n\_neighbors=58...  
 [CV 2/5; 760/1980] END leaf\_size=27, n\_neighbors=67;; score=0.611 total time=0.1s  
 [CV 3/5; 760/1980] START leaf\_size=27, n\_neighbors=67...  
 [CV 4/5; 749/1980] END leaf\_size=27, n\_neighbors=56;; score=0.591 total time=0.0s  
 [CV 5/5; 749/1980] START leaf\_size=27, n\_neighbors=56...  
 [CV 4/5; 748/1980] END leaf\_size=27, n\_neighbors=55;; score=0.593 total time=0.0s  
 [CV 4/5; 752/1980] END leaf\_size=27, n\_neighbors=59;; score=0.604 total time= 0.0s  
  
 [CV 5/5; 748/1980] START leaf\_size=27,  
 n\_neighbors=55...[CV 5/5; 752/1980] START leaf\_size=27,  
 n\_neighbors=59...  
  
 [CV 3/5; 754/1980] END leaf\_size=27, n\_neighbors=61;; score=0.557 total time=0.0s  
 [CV 4/5; 754/1980] START leaf\_size=27, n\_neighbors=61...  
 [CV 5/5; 758/1980] END leaf\_size=27, n\_neighbors=65;; score=0.621 total time=0.0s  
 [CV 1/5; 759/1980] START leaf\_size=27, n\_neighbors=66...  
 [CV 2/5; 747/1980] END leaf\_size=27, n\_neighbors=54;; score=0.618 total time=0.0s  
 [CV 5/5; 761/1980] START leaf\_size=27, n\_neighbors=68...  
 [CV 3/5; 757/1980] END leaf\_size=27, n\_neighbors=64;; score=0.562 total time=

```

0.0s
[CV 4/5; 757/1980] START leaf_size=27, n_neighbors=64...
[CV 1/5; 756/1980] END leaf_size=27, n_neighbors=63;; score=0.665 total time=
0.0s
[CV 2/5; 756/1980] START leaf_size=27, n_neighbors=63...
[CV 2/5; 751/1980] END leaf_size=27, n_neighbors=58;; score=0.609 total time=
0.0s
[CV 3/5; 751/1980] START leaf_size=27, n_neighbors=58...
[CV 5/5; 748/1980] END leaf_size=27, n_neighbors=55;; score=0.608 total time=
0.0s
[CV 3/5; 763/1980] START leaf_size=27, n_neighbors=70...
[CV 5/5; 749/1980] END leaf_size=27, n_neighbors=56;; score=0.613 total time=
0.0s
[CV 1/5; 750/1980] START leaf_size=27, n_neighbors=57...
[CV 5/5; 752/1980] END leaf_size=27, n_neighbors=59;; score=0.610 total time=
0.0s
[CV 1/5; 753/1980] START leaf_size=27, n_neighbors=60...
[CV 1/5; 759/1980] END leaf_size=27, n_neighbors=66;; score=0.663 total time=
0.0s
[CV 2/5; 759/1980] START leaf_size=27, n_neighbors=66...
[CV 5/5; 761/1980] END leaf_size=27, n_neighbors=68;; score=0.615 total time=
0.0s[CV 4/5; 757/1980] END leaf_size=27, n_neighbors=64;; score=0.593 total
time= 0.0s
[CV 5/5; 757/1980] START leaf_size=27, n_neighbors=64...

[CV 1/5; 762/1980] START leaf_size=27, n_neighbors=69...
[CV 2/5; 756/1980] END leaf_size=27, n_neighbors=63;; score=0.609 total time=
0.0s
[CV 3/5; 756/1980] START leaf_size=27, n_neighbors=63...
[CV 4/5; 754/1980] END leaf_size=27, n_neighbors=61;; score=0.604 total time=
0.0s
[CV 5/5; 754/1980] START leaf_size=27, n_neighbors=61...
[CV 3/5; 760/1980] END leaf_size=27, n_neighbors=67;; score=0.564 total time=
0.1s
[CV 4/5; 760/1980] START leaf_size=27, n_neighbors=67...
[CV 3/5; 751/1980] END leaf_size=27, n_neighbors=58;; score=0.549 total time=
0.0s
[CV 4/5; 751/1980] START leaf_size=27, n_neighbors=58...
[CV 1/5; 750/1980] END leaf_size=27, n_neighbors=57;; score=0.665 total time=
0.0s
[CV 2/5; 750/1980] START leaf_size=27, n_neighbors=57...
[CV 3/5; 763/1980] END leaf_size=27, n_neighbors=70;; score=0.559 total time=
0.0s
[CV 4/5; 763/1980] START leaf_size=27, n_neighbors=70...
[CV 1/5; 753/1980] END leaf_size=27, n_neighbors=60;; score=0.667 total time=
0.0s
[CV 2/5; 753/1980] START leaf_size=27, n_neighbors=60...
[CV 2/5; 759/1980] END leaf_size=27, n_neighbors=66;; score=0.609 total time=

```

0.0s  
 [CV 3/5; 759/1980] START leaf\_size=27, n\_neighbors=66...  
 [CV 5/5; 757/1980] END leaf\_size=27, n\_neighbors=64;; score=0.613 total time=  
 0.0s  
 [CV 1/5; 758/1980] START leaf\_size=27, n\_neighbors=65...  
 [CV 1/5; 762/1980] END leaf\_size=27, n\_neighbors=69;; score=0.663 total time=  
 0.0s  
 [CV 2/5; 762/1980] START leaf\_size=27, n\_neighbors=69...  
 [CV 3/5; 756/1980] END leaf\_size=27, n\_neighbors=63;; score=0.562 total time=  
 0.0s  
 [CV 4/5; 756/1980] START leaf\_size=27, n\_neighbors=63...  
 [CV 4/5; 751/1980] END leaf\_size=27, n\_neighbors=58;; score=0.595 total time=  
 0.0s  
 [CV 5/5; 751/1980] START leaf\_size=27, n\_neighbors=58...  
 [CV 2/5; 750/1980] END leaf\_size=27, n\_neighbors=57;; score=0.616 total time=  
 0.0s  
 [CV 3/5; 750/1980] START leaf\_size=27, n\_neighbors=57...  
 [CV 4/5; 763/1980] END leaf\_size=27, n\_neighbors=70;; score=0.589 total time=  
 0.0s  
 [CV 5/5; 763/1980] START leaf\_size=27, n\_neighbors=70...  
 [CV 2/5; 753/1980] END leaf\_size=27, n\_neighbors=60;; score=0.605 total time=  
 0.0s  
 [CV 3/5; 753/1980] START leaf\_size=27, n\_neighbors=60...  
 [CV 3/5; 759/1980] END leaf\_size=27, n\_neighbors=66;; score=0.566 total time=  
 0.0s  
 [CV 4/5; 759/1980] START leaf\_size=27, n\_neighbors=66...  
 [CV 5/5; 754/1980] END leaf\_size=27, n\_neighbors=61;; score=0.606 total time=  
 0.1s  
 [CV 1/5; 755/1980] START leaf\_size=27, n\_neighbors=62...  
 [CV 1/5; 758/1980] END leaf\_size=27, n\_neighbors=65;; score=0.663 total time=  
 0.0s  
 [CV 2/5; 758/1980] START leaf\_size=27, n\_neighbors=65...  
 [CV 5/5; 751/1980] END leaf\_size=27, n\_neighbors=58;; score=0.610 total time=  
 0.0s  
 [CV 4/5; 760/1980] END leaf\_size=27, n\_neighbors=67;; score=0.587 total time=  
 0.1s  
 [CV 1/5; 752/1980] START leaf\_size=27, n\_neighbors=59...  
 [CV 5/5; 760/1980] START leaf\_size=27, n\_neighbors=67...  
 [CV 4/5; 756/1980] END leaf\_size=27, n\_neighbors=63;; score=0.604 total time=  
 0.0s  
 [CV 5/5; 756/1980] START leaf\_size=27, n\_neighbors=63...  
 [CV 2/5; 762/1980] END leaf\_size=27, n\_neighbors=69;; score=0.609 total time=  
 0.0s  
 [CV 3/5; 762/1980] START leaf\_size=27, n\_neighbors=69...  
 [CV 3/5; 750/1980] END leaf\_size=27, n\_neighbors=57;; score=0.559 total time=  
 0.0s  
 [CV 5/5; 763/1980] END leaf\_size=27, n\_neighbors=70;; score=0.606 total time=  
 0.0s

[CV 1/5; 764/1980] START leaf\_size=27, n\_neighbors=71...  
 [CV 3/5; 753/1980] END leaf\_size=27, n\_neighbors=60;; score=0.553 total time=0.0s  
 [CV 4/5; 753/1980] START leaf\_size=27, n\_neighbors=60...  
 [CV 1/5; 765/1980] START leaf\_size=27, n\_neighbors=72...  
 [CV 1/5; 752/1980] END leaf\_size=27, n\_neighbors=59;; score=0.670 total time=0.0s  
 [CV 4/5; 766/1980] START leaf\_size=27, n\_neighbors=73...  
 [CV 4/5; 759/1980] END leaf\_size=27, n\_neighbors=66;; score=0.574 total time=0.0s  
 [CV 5/5; 759/1980] START leaf\_size=27, n\_neighbors=66...  
 [CV 2/5; 758/1980] END leaf\_size=27, n\_neighbors=65;; score=0.616 total time=0.0s  
 [CV 3/5; 758/1980] START leaf\_size=27, n\_neighbors=65...  
 [CV 5/5; 756/1980] END leaf\_size=27, n\_neighbors=63;; score=0.615 total time=0.0s  
 [CV 2/5; 768/1980] START leaf\_size=27, n\_neighbors=75...  
 [CV 3/5; 762/1980] END leaf\_size=27, n\_neighbors=69;; score=0.568 total time=0.0s  
 [CV 4/5; 762/1980] START leaf\_size=27, n\_neighbors=69...  
 [CV 1/5; 755/1980] END leaf\_size=27, n\_neighbors=62;; score=0.663 total time=0.0s  
 [CV 2/5; 755/1980] START leaf\_size=27, n\_neighbors=62...  
 [CV 1/5; 764/1980] END leaf\_size=27, n\_neighbors=71;; score=0.670 total time=0.0s  
 [CV 2/5; 764/1980] START leaf\_size=27, n\_neighbors=71...  
 [CV 4/5; 753/1980] END leaf\_size=27, n\_neighbors=60;; score=0.602 total time=0.0s  
 [CV 5/5; 769/1980] START leaf\_size=27, n\_neighbors=76...  
 [CV 1/5; 765/1980] END leaf\_size=27, n\_neighbors=72;; score=0.663 total time=0.0s  
 [CV 2/5; 765/1980] START leaf\_size=27, n\_neighbors=72...  
 [CV 4/5; 766/1980] END leaf\_size=27, n\_neighbors=73;; score=0.591 total time=0.0s  
 [CV 5/5; 766/1980] START leaf\_size=27, n\_neighbors=73...  
 [CV 5/5; 760/1980] END leaf\_size=27, n\_neighbors=67;; score=0.613 total time=0.1s  
 [CV 3/5; 758/1980] END leaf\_size=27, n\_neighbors=65;; score=0.566 total time=0.0s  
 [CV 1/5; 761/1980] START leaf\_size=27, n\_neighbors=68...  
 [CV 5/5; 759/1980] END leaf\_size=27, n\_neighbors=66;; score=0.613 total time=0.0s  
 [CV 1/5; 760/1980] START leaf\_size=27, n\_neighbors=67...  
 [CV 3/5; 771/1980] START leaf\_size=27, n\_neighbors=78...  
 [CV 4/5; 762/1980] END leaf\_size=27, n\_neighbors=69;; score=0.582 total time=0.0s  
 [CV 5/5; 762/1980] START leaf\_size=27, n\_neighbors=69...  
 [CV 2/5; 768/1980] END leaf\_size=27, n\_neighbors=75;; score=0.603 total time=

```

0.0s
[CV 3/5; 768/1980] START leaf_size=27, n_neighbors=75...
[CV 2/5; 764/1980] END leaf_size=27, n_neighbors=71;; score=0.616 total time=
0.0s
[CV 3/5; 764/1980] START leaf_size=27, n_neighbors=71...
[CV 2/5; 755/1980] END leaf_size=27, n_neighbors=62;; score=0.603 total time=
0.0s
[CV 5/5; 769/1980] END leaf_size=27, n_neighbors=76;; score=0.621 total time=
0.0s
[CV 1/5; 770/1980] START leaf_size=27, n_neighbors=77...
[CV 1/5; 773/1980] START leaf_size=27, n_neighbors=80...
[CV 2/5; 765/1980] END leaf_size=27, n_neighbors=72;; score=0.607 total time=
0.0s
[CV 3/5; 765/1980] START leaf_size=27, n_neighbors=72...
[CV 5/5; 766/1980] END leaf_size=27, n_neighbors=73;; score=0.628 total time=
0.0s
[CV 1/5; 767/1980] START leaf_size=27, n_neighbors=74...
[CV 5/5; 762/1980] END leaf_size=27, n_neighbors=69;; score=0.621 total time=
0.0s[CV 1/5; 760/1980] END leaf_size=27, n_neighbors=67;; score=0.663 total
time= 0.0s

[CV 1/5; 763/1980] START leaf_size=27, n_neighbors=70...
[CV 4/5; 774/1980] START leaf_size=27, n_neighbors=81...
[CV 3/5; 768/1980] END leaf_size=27, n_neighbors=75;; score=0.555 total time=
0.0s
[CV 4/5; 768/1980] START leaf_size=27, n_neighbors=75...
[CV 3/5; 771/1980] END leaf_size=27, n_neighbors=78;; score=0.555 total time=
0.0s
[CV 4/5; 771/1980] START leaf_size=27, n_neighbors=78...
[CV 3/5; 764/1980] END leaf_size=27, n_neighbors=71;; score=0.562 total time=
0.0s
[CV 4/5; 764/1980] START leaf_size=27, n_neighbors=71...
[CV 1/5; 770/1980] END leaf_size=27, n_neighbors=77;; score=0.667 total time=
0.0s
[CV 2/5; 770/1980] START leaf_size=27, n_neighbors=77...
[CV 3/5; 765/1980] END leaf_size=27, n_neighbors=72;; score=0.562 total time=
0.0s[CV 1/5; 773/1980] END leaf_size=27, n_neighbors=80;; score=0.659 total
time= 0.0s

[CV 2/5; 773/1980] START leaf_size=27, n_neighbors=80...
[CV 4/5; 765/1980] START leaf_size=27, n_neighbors=72...
[CV 1/5; 761/1980] END leaf_size=27, n_neighbors=68;; score=0.667 total time=
0.1s
[CV 2/5; 761/1980] START leaf_size=27, n_neighbors=68...
[CV 1/5; 767/1980] END leaf_size=27, n_neighbors=74;; score=0.661 total time=
0.0s
[CV 2/5; 767/1980] START leaf_size=27, n_neighbors=74...
[CV 1/5; 763/1980] END leaf_size=27, n_neighbors=70;; score=0.663 total time=

```

0.0s  
 [CV 2/5; 763/1980] START leaf\_size=27, n\_neighbors=70...  
 [CV 4/5; 768/1980] END leaf\_size=27, n\_neighbors=75;; score=0.591 total time=  
 0.0s  
 [CV 5/5; 768/1980] START leaf\_size=27, n\_neighbors=75...  
 [CV 4/5; 771/1980] END leaf\_size=27, n\_neighbors=78;; score=0.571 total time=  
 0.0s  
 [CV 5/5; 771/1980] START leaf\_size=27, n\_neighbors=78...  
 [CV 4/5; 764/1980] END leaf\_size=27, n\_neighbors=71;; score=0.587 total time=  
 0.0s  
 [CV 5/5; 764/1980] START leaf\_size=27, n\_neighbors=71...  
 [CV 4/5; 774/1980] END leaf\_size=27, n\_neighbors=81;; score=0.587 total time=  
 0.0s  
 [CV 5/5; 774/1980] START leaf\_size=27, n\_neighbors=81...  
 [CV 4/5; 765/1980] END leaf\_size=27, n\_neighbors=72;; score=0.593 total time=  
 0.0s  
 [CV 5/5; 765/1980] START leaf\_size=27, n\_neighbors=72...  
 [CV 2/5; 770/1980] END leaf\_size=27, n\_neighbors=77;; score=0.605 total time=  
 0.0s  
 [CV 3/5; 770/1980] START leaf\_size=27, n\_neighbors=77...  
 [CV 2/5; 773/1980] END leaf\_size=27, n\_neighbors=80;; score=0.594 total time=  
 0.0s  
 [CV 3/5; 773/1980] START leaf\_size=27, n\_neighbors=80...  
 [CV 2/5; 767/1980] END leaf\_size=27, n\_neighbors=74;; score=0.607 total time=  
 0.0s  
 [CV 3/5; 767/1980] START leaf\_size=27, n\_neighbors=74...  
 [CV 2/5; 763/1980] END leaf\_size=27, n\_neighbors=70;; score=0.607 total time=  
 0.0s  
 [CV 5/5; 764/1980] END leaf\_size=27, n\_neighbors=71;; score=0.613 total time=  
 0.0s  
 [CV 5/5; 768/1980] END leaf\_size=27, n\_neighbors=75;; score=0.632 total time=  
 0.0s  
 [CV 1/5; 769/1980] START leaf\_size=27, n\_neighbors=76...  
 [CV 5/5; 777/1980] START leaf\_size=27, n\_neighbors=84...  
 [CV 5/5; 771/1980] END leaf\_size=27, n\_neighbors=78;; score=0.628 total time=  
 0.0s  
 [CV 2/5; 776/1980] START leaf\_size=27, n\_neighbors=83...  
 [CV 1/5; 772/1980] START leaf\_size=27, n\_neighbors=79...  
 [CV 5/5; 774/1980] END leaf\_size=27, n\_neighbors=81;; score=0.626 total time=  
 0.0s  
 [CV 1/5; 775/1980] START leaf\_size=27, n\_neighbors=82...  
 [CV 5/5; 765/1980] END leaf\_size=27, n\_neighbors=72;; score=0.613 total time=  
 0.0s  
 [CV 1/5; 766/1980] START leaf\_size=27, n\_neighbors=73...  
 [CV 3/5; 770/1980] END leaf\_size=27, n\_neighbors=77;; score=0.562 total time=  
 0.0s  
 [CV 4/5; 770/1980] START leaf\_size=27, n\_neighbors=77...  
 [CV 3/5; 773/1980] END leaf\_size=27, n\_neighbors=80;; score=0.564 total time=

0.0s  
 [CV 4/5; 773/1980] START leaf\_size=27, n\_neighbors=80...  
 [CV 3/5; 767/1980] END leaf\_size=27, n\_neighbors=74;; score=0.557 total time=  
 0.0s  
 [CV 4/5; 767/1980] START leaf\_size=27, n\_neighbors=74...  
 [CV 2/5; 761/1980] END leaf\_size=27, n\_neighbors=68;; score=0.609 total time=  
 0.1s  
 [CV 3/5; 761/1980] START leaf\_size=27, n\_neighbors=68...  
 [CV 5/5; 777/1980] END leaf\_size=27, n\_neighbors=84;; score=0.626 total time=  
 0.0s  
 [CV 1/5; 778/1980] START leaf\_size=27, n\_neighbors=85...  
 [CV 1/5; 769/1980] END leaf\_size=27, n\_neighbors=76;; score=0.667 total time=  
 0.0s  
 [CV 2/5; 769/1980] START leaf\_size=27, n\_neighbors=76...  
 [CV 1/5; 766/1980] END leaf\_size=27, n\_neighbors=73;; score=0.663 total time=  
 0.0s  
 [CV 2/5; 766/1980] START leaf\_size=27, n\_neighbors=73...  
 [CV 2/5; 776/1980] END leaf\_size=27, n\_neighbors=83;; score=0.596 total time=  
 0.0s  
 [CV 3/5; 776/1980] START leaf\_size=27, n\_neighbors=83...  
 [CV 1/5; 772/1980] END leaf\_size=27, n\_neighbors=79;; score=0.659 total time=  
 0.0s  
 [CV 2/5; 772/1980] START leaf\_size=27, n\_neighbors=79...  
 [CV 1/5; 775/1980] END leaf\_size=27, n\_neighbors=82;; score=0.659 total time=  
 0.0s  
 [CV 2/5; 775/1980] START leaf\_size=27, n\_neighbors=82...  
 [CV 4/5; 770/1980] END leaf\_size=27, n\_neighbors=77;; score=0.580 total time=  
 0.0s  
 [CV 5/5; 770/1980] START leaf\_size=27, n\_neighbors=77...  
 [CV 4/5; 773/1980] END leaf\_size=27, n\_neighbors=80;; score=0.584 total time=  
 0.0s  
 [CV 5/5; 773/1980] START leaf\_size=27, n\_neighbors=80...  
 [CV 4/5; 767/1980] END leaf\_size=27, n\_neighbors=74;; score=0.591 total time=  
 0.0s  
 [CV 5/5; 767/1980] START leaf\_size=27, n\_neighbors=74...  
 [CV 1/5; 778/1980] END leaf\_size=27, n\_neighbors=85;; score=0.650 total time=  
 0.0s  
 [CV 2/5; 778/1980] START leaf\_size=27, n\_neighbors=85...  
 [CV 2/5; 766/1980] END leaf\_size=27, n\_neighbors=73;; score=0.605 total time=  
 0.0s  
 [CV 2/5; 769/1980] END leaf\_size=27, n\_neighbors=76;; score=0.603 total time=  
 0.0s  
 [CV 3/5; 766/1980] START leaf\_size=27, n\_neighbors=73...  
 [CV 3/5; 769/1980] START leaf\_size=27, n\_neighbors=76...  
 [CV 3/5; 776/1980] END leaf\_size=27, n\_neighbors=83;; score=0.564 total time=  
 0.0s  
 [CV 4/5; 776/1980] START leaf\_size=27, n\_neighbors=83...  
 [CV 2/5; 772/1980] END leaf\_size=27, n\_neighbors=79;; score=0.598 total time=

0.0s[CV 5/5; 770/1980] END leaf\_size=27, n\_neighbors=77;;, score=0.617 total time= 0.0s

[CV 1/5; 771/1980] START leaf\_size=27, n\_neighbors=78...

[CV 3/5; 772/1980] START leaf\_size=27, n\_neighbors=79...

[CV 2/5; 775/1980] END leaf\_size=27, n\_neighbors=82;;, score=0.600 total time= 0.0s

[CV 3/5; 775/1980] START leaf\_size=27, n\_neighbors=82...

[CV 5/5; 773/1980] END leaf\_size=27, n\_neighbors=80;;, score=0.628 total time= 0.0s

[CV 1/5; 774/1980] START leaf\_size=27, n\_neighbors=81...

[CV 5/5; 767/1980] END leaf\_size=27, n\_neighbors=74;;, score=0.623 total time= 0.0s

[CV 1/5; 768/1980] START leaf\_size=27, n\_neighbors=75...

[CV 3/5; 761/1980] END leaf\_size=27, n\_neighbors=68;;, score=0.566 total time= 0.1s

[CV 4/5; 761/1980] START leaf\_size=27, n\_neighbors=68...

[CV 3/5; 766/1980] END leaf\_size=27, n\_neighbors=73;;, score=0.566 total time= 0.0s

[CV 2/5; 778/1980] END leaf\_size=27, n\_neighbors=85;;, score=0.600 total time= 0.0s

[CV 3/5; 778/1980] START leaf\_size=27, n\_neighbors=85...

[CV 3/5; 769/1980] END leaf\_size=27, n\_neighbors=76;;, score=0.557 total time= 0.0s

[CV 4/5; 769/1980] START leaf\_size=27, n\_neighbors=76...

[CV 3/5; 779/1980] START leaf\_size=27, n\_neighbors=86...

[CV 1/5; 771/1980] END leaf\_size=27, n\_neighbors=78;;, score=0.659 total time= 0.0s

[CV 3/5; 775/1980] END leaf\_size=27, n\_neighbors=82;;, score=0.566 total time= 0.0s

[CV 2/5; 771/1980] START leaf\_size=27, n\_neighbors=78...

[CV 4/5; 775/1980] START leaf\_size=27, n\_neighbors=82...

[CV 3/5; 772/1980] END leaf\_size=27, n\_neighbors=79;;, score=0.557 total time= 0.0s

[CV 4/5; 772/1980] START leaf\_size=27, n\_neighbors=79...

[CV 1/5; 774/1980] END leaf\_size=27, n\_neighbors=81;;, score=0.659 total time= 0.0s

[CV 2/5; 774/1980] START leaf\_size=27, n\_neighbors=81...

[CV 4/5; 776/1980] END leaf\_size=27, n\_neighbors=83;;, score=0.584 total time= 0.0s

[CV 5/5; 776/1980] START leaf\_size=27, n\_neighbors=83...

[CV 1/5; 768/1980] END leaf\_size=27, n\_neighbors=75;;, score=0.667 total time= 0.0s

[CV 1/5; 781/1980] START leaf\_size=27, n\_neighbors=88...

[CV 3/5; 778/1980] END leaf\_size=27, n\_neighbors=85;;, score=0.557 total time= 0.0s

[CV 4/5; 769/1980] END leaf\_size=27, n\_neighbors=76;;, score=0.578 total time= 0.0s



[CV 4/5; 778/1980] START leaf\_size=27, n\_neighbors=85...  
 [CV 4/5; 782/1980] START leaf\_size=27, n\_neighbors=89...  
 [CV 3/5; 779/1980] END leaf\_size=27, n\_neighbors=86;;, score=0.559 total time=0.0s  
 [CV 4/5; 779/1980] START leaf\_size=27, n\_neighbors=86...  
 [CV 4/5; 775/1980] END leaf\_size=27, n\_neighbors=82;;, score=0.587 total time=0.0s  
 [CV 5/5; 775/1980] START leaf\_size=27, n\_neighbors=82...  
 [CV 2/5; 771/1980] END leaf\_size=27, n\_neighbors=78;;, score=0.603 total time=0.0s  
 [CV 2/5; 774/1980] END leaf\_size=27, n\_neighbors=81;;, score=0.596 total time=0.0s  
 [CV 3/5; 774/1980] START leaf\_size=27, n\_neighbors=81...  
 [CV 2/5; 784/1980] START leaf\_size=27, n\_neighbors=91...  
 [CV 4/5; 772/1980] END leaf\_size=27, n\_neighbors=79;;, score=0.584 total time=0.0s  
 [CV 5/5; 772/1980] START leaf\_size=27, n\_neighbors=79...  
 [CV 5/5; 776/1980] END leaf\_size=27, n\_neighbors=83;;, score=0.619 total time=0.0s  
 [CV 1/5; 777/1980] START leaf\_size=27, n\_neighbors=84...  
 [CV 4/5; 761/1980] END leaf\_size=27, n\_neighbors=68;;, score=0.576 total time=0.1s  
 [CV 5/5; 785/1980] START leaf\_size=27, n\_neighbors=92...  
 [CV 1/5; 781/1980] END leaf\_size=27, n\_neighbors=88;;, score=0.652 total time=0.0s  
 [CV 2/5; 781/1980] START leaf\_size=27, n\_neighbors=88...  
 [CV 4/5; 778/1980] END leaf\_size=27, n\_neighbors=85;;, score=0.576 total time=0.0s  
 [CV 5/5; 778/1980] START leaf\_size=27, n\_neighbors=85...  
 [CV 4/5; 779/1980] END leaf\_size=27, n\_neighbors=86;;, score=0.580 total time=0.0s  
 [CV 5/5; 779/1980] START leaf\_size=27,  
 n\_neighbors=86...[CV 4/5; 782/1980] END leaf\_size=27,  
 n\_neighbors=89;;, score=0.591 total time= 0.0s  
  
 [CV 5/5; 782/1980] START leaf\_size=27, n\_neighbors=89...  
 [CV 5/5; 775/1980] END leaf\_size=27, n\_neighbors=82;;, score=0.630 total time=0.0s  
 [CV 1/5; 776/1980] START leaf\_size=27, n\_neighbors=83...  
 [CV 3/5; 774/1980] END leaf\_size=27, n\_neighbors=81;;, score=0.562 total time=0.0s  
 [CV 5/5; 772/1980] END leaf\_size=27, n\_neighbors=79;;, score=0.619 total time=0.0s  
 [CV 3/5; 787/1980] START leaf\_size=27, n\_neighbors=94...  
 [CV 2/5; 784/1980] END leaf\_size=27, n\_neighbors=91;;, score=0.605 total time=0.0s  
 [CV 3/5; 784/1980] START leaf\_size=27, n\_neighbors=91...  
 [CV 1/5; 789/1980] START leaf\_size=27, n\_neighbors=96...

[CV 1/5; 777/1980] END leaf\_size=27, n\_neighbors=84;; score=0.654 total time=0.0s  
 [CV 2/5; 777/1980] START leaf\_size=27, n\_neighbors=84...  
 [CV 5/5; 778/1980] END leaf\_size=27, n\_neighbors=85;; score=0.626 total time=0.0s  
 [CV 1/5; 779/1980] START leaf\_size=27, n\_neighbors=86...  
 [CV 2/5; 781/1980] END leaf\_size=27, n\_neighbors=88;; score=0.600 total time=0.0s  
 [CV 3/5; 781/1980] START leaf\_size=27, n\_neighbors=88...  
 [CV 5/5; 779/1980] END leaf\_size=27, n\_neighbors=86;; score=0.623 total time=0.0s  
 [CV 1/5; 780/1980] START leaf\_size=27, n\_neighbors=87...  
 [CV 5/5; 782/1980] END leaf\_size=27, n\_neighbors=89;; score=0.621 total time=0.0s  
 [CV 1/5; 783/1980] START leaf\_size=27, n\_neighbors=90...  
 [CV 1/5; 776/1980] END leaf\_size=27, n\_neighbors=83;; score=0.650 total time=0.0s  
 [CV 4/5; 790/1980] START leaf\_size=27, n\_neighbors=97...  
 [CV 3/5; 787/1980] END leaf\_size=27, n\_neighbors=94;; score=0.562 total time=0.0s  
 [CV 4/5; 787/1980] START leaf\_size=27, n\_neighbors=94...  
 [CV 3/5; 784/1980] END leaf\_size=27, n\_neighbors=91;; score=0.564 total time=0.0s  
 [CV 4/5; 784/1980] START leaf\_size=27, n\_neighbors=91...  
 [CV 1/5; 789/1980] END leaf\_size=27, n\_neighbors=96;; score=0.637 total time=0.0s  
 [CV 2/5; 789/1980] START leaf\_size=27, n\_neighbors=96...  
 [CV 5/5; 785/1980] END leaf\_size=27, n\_neighbors=92;; score=0.621 total time=0.1s  
 [CV 1/5; 786/1980] START leaf\_size=27, n\_neighbors=93...  
 [CV 2/5; 777/1980] END leaf\_size=27, n\_neighbors=84;; score=0.603 total time=0.0s  
 [CV 3/5; 777/1980] START leaf\_size=27, n\_neighbors=84...  
 [CV 1/5; 779/1980] END leaf\_size=27, n\_neighbors=86;; score=0.648 total time=0.0s  
 [CV 2/5; 779/1980] START leaf\_size=27, n\_neighbors=86...  
 [CV 3/5; 781/1980] END leaf\_size=27, n\_neighbors=88;; score=0.562 total time=0.0s  
 [CV 4/5; 781/1980] START leaf\_size=27, n\_neighbors=88...  
 [CV 1/5; 780/1980] END leaf\_size=27, n\_neighbors=87;; score=0.650 total time=0.0s  
 [CV 2/5; 780/1980] START leaf\_size=27, n\_neighbors=87...  
 [CV 1/5; 783/1980] END leaf\_size=27, n\_neighbors=90;; score=0.650 total time=0.0s  
 [CV 2/5; 783/1980] START leaf\_size=27, n\_neighbors=90...  
 [CV 4/5; 790/1980] END leaf\_size=27, n\_neighbors=97;; score=0.580 total time=0.0s  
 [CV 5/5; 790/1980] START leaf\_size=27, n\_neighbors=97...

[CV 4/5; 787/1980] END leaf\_size=27, n\_neighbors=94;; score=0.582 total time=0.0s  
 [CV 5/5; 787/1980] START leaf\_size=27, n\_neighbors=94...  
 [CV 4/5; 784/1980] END leaf\_size=27, n\_neighbors=91;; score=0.591 total time=0.0s  
 [CV 5/5; 784/1980] START leaf\_size=27, n\_neighbors=91...  
 [CV 2/5; 789/1980] END leaf\_size=27, n\_neighbors=96;; score=0.598 total time=0.0s  
 [CV 3/5; 777/1980] END leaf\_size=27, n\_neighbors=84;; score=0.555 total time=0.0s  
 [CV 3/5; 789/1980] START leaf\_size=27, n\_neighbors=96...  
 [CV 4/5; 777/1980] START leaf\_size=27, n\_neighbors=84...  
 [CV 2/5; 779/1980] END leaf\_size=27, n\_neighbors=86;; score=0.598 total time=0.0s  
 [CV 2/5; 792/1980] START leaf\_size=27, n\_neighbors=99...  
 [CV 4/5; 781/1980] END leaf\_size=27, n\_neighbors=88;; score=0.578 total time=0.0s  
 [CV 5/5; 781/1980] START leaf\_size=27, n\_neighbors=88...  
 [CV 2/5; 783/1980] END leaf\_size=27, n\_neighbors=90;; score=0.600 total time=0.0s  
 [CV 2/5; 780/1980] END leaf\_size=27, n\_neighbors=87;; score=0.603 total time=0.0s  
 [CV 3/5; 783/1980] START leaf\_size=27, n\_neighbors=90...  
 [CV 3/5; 780/1980] START leaf\_size=27, n\_neighbors=87...  
 [CV 5/5; 790/1980] END leaf\_size=27, n\_neighbors=97;; score=0.602 total time=0.0s  
 [CV 1/5; 791/1980] START leaf\_size=27, n\_neighbors=98...  
 [CV 5/5; 787/1980] END leaf\_size=27, n\_neighbors=94;; score=0.608 total time=0.0s  
 [CV 1/5; 788/1980] START leaf\_size=27, n\_neighbors=95...  
 [CV 5/5; 784/1980] END leaf\_size=27, n\_neighbors=91;; score=0.623 total time=0.0s  
 [CV 1/5; 785/1980] START leaf\_size=27, n\_neighbors=92...  
 [CV 1/5; 786/1980] END leaf\_size=27, n\_neighbors=93;; score=0.646 total time=0.1s  
 [CV 2/5; 786/1980] START leaf\_size=27, n\_neighbors=93...  
 [CV 4/5; 777/1980] END leaf\_size=27, n\_neighbors=84;; score=0.582 total time=0.0s  
 [CV 3/5; 789/1980] END leaf\_size=27, n\_neighbors=96;; score=0.564 total time=0.0s  
 [CV 4/5; 789/1980] START leaf\_size=27, n\_neighbors=96...  
 [CV 3/5; 780/1980] END leaf\_size=27, n\_neighbors=87;; score=0.562 total time=0.0s  
 [CV 4/5; 780/1980] START leaf\_size=27, n\_neighbors=87...  
 [CV 5/5; 781/1980] END leaf\_size=27, n\_neighbors=88;; score=0.617 total time=0.0s  
 [CV 1/5; 782/1980] START leaf\_size=27, n\_neighbors=89...  
 [CV 2/5; 792/1980] END leaf\_size=27, n\_neighbors=99;; score=0.598 total time=

0.0s  
 [CV 3/5; 783/1980] END leaf\_size=27, n\_neighbors=90;; score=0.564 total time=  
 0.0s  
 [CV 3/5; 792/1980] START leaf\_size=27, n\_neighbors=99...  
 [CV 4/5; 783/1980] START leaf\_size=27, n\_neighbors=90...  
 [CV 5/5; 793/1980] START leaf\_size=28, n\_neighbors=1...  
 [CV 1/5; 791/1980] END leaf\_size=27, n\_neighbors=98;; score=0.635 total time=  
 0.0s  
 [CV 2/5; 791/1980] START leaf\_size=27, n\_neighbors=98...  
 [CV 1/5; 788/1980] END leaf\_size=27, n\_neighbors=95;; score=0.644 total time=  
 0.0s  
 [CV 2/5; 788/1980] START leaf\_size=27, n\_neighbors=95...  
 [CV 5/5; 793/1980] END leaf\_size=28, n\_neighbors=1;; score=0.567 total time=  
 0.0s  
 [CV 1/5; 794/1980] START leaf\_size=28, n\_neighbors=2...  
 [CV 1/5; 785/1980] END leaf\_size=27, n\_neighbors=92;; score=0.646 total time=  
 0.0s  
 [CV 2/5; 785/1980] START leaf\_size=27, n\_neighbors=92...  
 [CV 4/5; 780/1980] END leaf\_size=27, n\_neighbors=87;; score=0.584 total time=  
 0.0s  
 [CV 5/5; 780/1980] START leaf\_size=27, n\_neighbors=87...  
 [CV 4/5; 783/1980] END leaf\_size=27, n\_neighbors=90;; score=0.580 total time=  
 0.0s  
 [CV 5/5; 783/1980] START leaf\_size=27, n\_neighbors=90...  
 [CV 1/5; 782/1980] END leaf\_size=27, n\_neighbors=89;; score=0.646 total time=  
 0.0s  
 [CV 2/5; 782/1980] START leaf\_size=27, n\_neighbors=89...  
 [CV 3/5; 792/1980] END leaf\_size=27, n\_neighbors=99;; score=0.566 total time=  
 0.0s  
 [CV 4/5; 792/1980] START leaf\_size=27, n\_neighbors=99...  
 [CV 4/5; 789/1980] END leaf\_size=27, n\_neighbors=96;; score=0.582 total time=  
 0.0s  
 [CV 5/5; 789/1980] START leaf\_size=27, n\_neighbors=96...  
 [CV 1/5; 794/1980] END leaf\_size=28, n\_neighbors=2;; score=0.566 total time=  
 0.0s  
 [CV 2/5; 794/1980] START leaf\_size=28, n\_neighbors=2...  
 [CV 2/5; 786/1980] END leaf\_size=27, n\_neighbors=93;; score=0.603 total time=  
 0.1s  
 [CV 3/5; 786/1980] START leaf\_size=27, n\_neighbors=93...  
 [CV 2/5; 791/1980] END leaf\_size=27, n\_neighbors=98;; score=0.596 total time=  
 0.0s  
 [CV 3/5; 791/1980] START leaf\_size=27, n\_neighbors=98...  
 [CV 2/5; 788/1980] END leaf\_size=27, n\_neighbors=95;; score=0.603 total time=  
 0.0s  
 [CV 3/5; 788/1980] START leaf\_size=27, n\_neighbors=95...  
 [CV 2/5; 794/1980] END leaf\_size=28, n\_neighbors=2;; score=0.579 total time=  
 0.0s  
 [CV 3/5; 794/1980] START leaf\_size=28, n\_neighbors=2...

[CV 5/5; 780/1980] END leaf\_size=27, n\_neighbors=87;; score=0.619 total time=0.0s  
 [CV 5/5; 783/1980] END leaf\_size=27, n\_neighbors=90;; score=0.617 total time=0.0s  
 [CV 1/5; 784/1980] START leaf\_size=27, n\_neighbors=91...  
 [CV 3/5; 795/1980] START leaf\_size=28, n\_neighbors=3...  
 [CV 4/5; 792/1980] END leaf\_size=27, n\_neighbors=99;; score=0.589 total time=0.0s  
 [CV 5/5; 792/1980] START leaf\_size=27, n\_neighbors=99...  
 [CV 2/5; 782/1980] END leaf\_size=27, n\_neighbors=89;; score=0.600 total time=0.0s  
 [CV 3/5; 782/1980] START leaf\_size=27, n\_neighbors=89...  
 [CV 2/5; 785/1980] END leaf\_size=27, n\_neighbors=92;; score=0.598 total time=0.0s  
 [CV 3/5; 785/1980] START leaf\_size=27, n\_neighbors=92...  
 [CV 5/5; 789/1980] END leaf\_size=27, n\_neighbors=96;; score=0.604 total time=0.0s  
 [CV 1/5; 790/1980] START leaf\_size=27, n\_neighbors=97...  
 [CV 3/5; 794/1980] END leaf\_size=28, n\_neighbors=2;; score=0.512 total time=0.0s  
 [CV 4/5; 794/1980] START leaf\_size=28, n\_neighbors=2...  
 [CV 3/5; 791/1980] END leaf\_size=27, n\_neighbors=98;; score=0.562 total time=0.0s  
 [CV 4/5; 791/1980] START leaf\_size=27, n\_neighbors=98...  
 [CV 3/5; 795/1980] END leaf\_size=28, n\_neighbors=3;; score=0.484 total time=0.0s  
 [CV 4/5; 795/1980] START leaf\_size=28, n\_neighbors=3...  
 [CV 3/5; 788/1980] END leaf\_size=27, n\_neighbors=95;; score=0.566 total time=0.0s  
 [CV 4/5; 788/1980] START leaf\_size=27, n\_neighbors=95...  
 [CV 4/5; 794/1980] END leaf\_size=28, n\_neighbors=2;; score=0.571 total time=0.0s  
 [CV 5/5; 794/1980] START leaf\_size=28, n\_neighbors=2...  
 [CV 3/5; 786/1980] END leaf\_size=27, n\_neighbors=93;; score=0.564 total time=0.1s  
 [CV 4/5; 786/1980] START leaf\_size=27, n\_neighbors=93...  
 [CV 1/5; 784/1980] END leaf\_size=27, n\_neighbors=91;; score=0.648 total time=0.0s  
 [CV 5/5; 792/1980] END leaf\_size=27, n\_neighbors=99;; score=0.610 total time=0.0s  
 [CV 1/5; 793/1980] START leaf\_size=28, n\_neighbors=1...  
 [CV 3/5; 782/1980] END leaf\_size=27, n\_neighbors=89;; score=0.564 total time=0.0s  
 [CV 4/5; 795/1980] END leaf\_size=28, n\_neighbors=3;; score=0.584 total time=0.0s  
 [CV 5/5; 795/1980] START leaf\_size=28, n\_neighbors=3...  
 [CV 1/5; 797/1980] START leaf\_size=28, n\_neighbors=5...  
 [CV 1/5; 790/1980] END leaf\_size=27, n\_neighbors=97;; score=0.641 total time=

0.0s  
 [CV 2/5; 790/1980] START leaf\_size=27, n\_neighbors=97...  
 [CV 4/5; 798/1980] START leaf\_size=28, n\_neighbors=6...  
 [CV 3/5; 785/1980] END leaf\_size=27, n\_neighbors=92;; score=0.564 total time=  
 0.0s  
 [CV 4/5; 785/1980] START leaf\_size=27, n\_neighbors=92...  
 [CV 5/5; 794/1980] END leaf\_size=28, n\_neighbors=2;; score=0.574 total time=  
 0.0s  
 [CV 1/5; 795/1980] START leaf\_size=28, n\_neighbors=3...  
 [CV 4/5; 791/1980] END leaf\_size=27, n\_neighbors=98;; score=0.584 total time=  
 0.0s  
 [CV 5/5; 791/1980] START leaf\_size=27, n\_neighbors=98...  
 [CV 1/5; 793/1980] END leaf\_size=28, n\_neighbors=1;; score=0.516 total time=  
 0.0s  
 [CV 2/5; 793/1980] START leaf\_size=28, n\_neighbors=1...  
 [CV 4/5; 788/1980] END leaf\_size=27, n\_neighbors=95;; score=0.584 total time=  
 0.0s  
 [CV 5/5; 788/1980] START leaf\_size=27, n\_neighbors=95...  
 [CV 5/5; 795/1980] END leaf\_size=28, n\_neighbors=3;; score=0.593 total time=  
 0.0s  
 [CV 1/5; 796/1980] START leaf\_size=28, n\_neighbors=4...  
 [CV 1/5; 797/1980] END leaf\_size=28, n\_neighbors=5;; score=0.546 total time=  
 0.0s  
 [CV 2/5; 797/1980] START leaf\_size=28, n\_neighbors=5...  
 [CV 4/5; 798/1980] END leaf\_size=28, n\_neighbors=6;; score=0.578 total time=  
 0.0s  
 [CV 5/5; 798/1980] START leaf\_size=28, n\_neighbors=6...  
 [CV 1/5; 795/1980] END leaf\_size=28, n\_neighbors=3;; score=0.557 total time=  
 0.0s  
 [CV 2/5; 795/1980] START leaf\_size=28, n\_neighbors=3...  
 [CV 2/5; 793/1980] END leaf\_size=28, n\_neighbors=1;; score=0.568 total time=  
 0.0s  
 [CV 3/5; 793/1980] START leaf\_size=28, n\_neighbors=1...  
 [CV 1/5; 796/1980] END leaf\_size=28, n\_neighbors=4;; score=0.562 total time=  
 0.0s  
 [CV 2/5; 796/1980] START leaf\_size=28, n\_neighbors=4...  
 [CV 2/5; 790/1980] END leaf\_size=27, n\_neighbors=97;; score=0.594 total time=  
 0.0s  
 [CV 3/5; 790/1980] START leaf\_size=27, n\_neighbors=97...  
 [CV 4/5; 786/1980] END leaf\_size=27, n\_neighbors=93;; score=0.587 total time=  
 0.1s  
 [CV 5/5; 786/1980] START leaf\_size=27, n\_neighbors=93...  
 [CV 5/5; 798/1980] END leaf\_size=28, n\_neighbors=6;; score=0.582 total time=  
 0.0s  
 [CV 1/5; 799/1980] START leaf\_size=28, n\_neighbors=7...  
 [CV 4/5; 785/1980] END leaf\_size=27, n\_neighbors=92;; score=0.582 total time=  
 0.0s  
 [CV 2/5; 797/1980] END leaf\_size=28, n\_neighbors=5;; score=0.562 total time=

```

0.0s
[CV 3/5; 797/1980] START leaf_size=28, n_neighbors=5...
[CV 5/5; 791/1980] END leaf_size=27, n_neighbors=98;; score=0.606 total time=
0.0s
[CV 1/5; 792/1980] START leaf_size=27, n_neighbors=99...
[CV 2/5; 800/1980] START leaf_size=28, n_neighbors=8...
[CV 2/5; 795/1980] END leaf_size=28, n_neighbors=3;; score=0.579 total time=
0.0s
[CV 5/5; 801/1980] START leaf_size=28, n_neighbors=9...
[CV 3/5; 793/1980] END leaf_size=28, n_neighbors=1;; score=0.490 total time=
0.0s
[CV 4/5; 793/1980] START leaf_size=28, n_neighbors=1...
[CV 5/5; 788/1980] END leaf_size=27, n_neighbors=95;; score=0.608 total time=
0.0s
[CV 3/5; 803/1980] START leaf_size=28, n_neighbors=11...
[CV 2/5; 796/1980] END leaf_size=28, n_neighbors=4;; score=0.581 total time=
0.0s
[CV 3/5; 796/1980] START leaf_size=28, n_neighbors=4...
[CV 3/5; 797/1980] END leaf_size=28, n_neighbors=5;; score=0.536 total time=
0.0s
[CV 4/5; 797/1980] START leaf_size=28, n_neighbors=5...
[CV 1/5; 799/1980] END leaf_size=28, n_neighbors=7;; score=0.568 total time=
0.0s
[CV 2/5; 799/1980] START leaf_size=28, n_neighbors=7...
[CV 4/5; 793/1980] END leaf_size=28, n_neighbors=1;; score=0.539 total time=
0.0s
[CV 2/5; 800/1980] END leaf_size=28, n_neighbors=8;; score=0.551 total time=
0.0s
[CV 3/5; 800/1980] START leaf_size=28, n_neighbors=8...
[CV 1/5; 805/1980] START leaf_size=28, n_neighbors=13...
[CV 5/5; 801/1980] END leaf_size=28, n_neighbors=9;; score=0.613 total time=
0.0s
[CV 1/5; 802/1980] START leaf_size=28, n_neighbors=10...
[CV 3/5; 796/1980] END leaf_size=28, n_neighbors=4;; score=0.544 total time=
0.0s
[CV 3/5; 790/1980] END leaf_size=27, n_neighbors=97;; score=0.564 total time=
0.0s
[CV 4/5; 796/1980] START leaf_size=28, n_neighbors=4...
[CV 4/5; 806/1980] START leaf_size=28, n_neighbors=14...
[CV 3/5; 803/1980] END leaf_size=28, n_neighbors=11;; score=0.551 total time=
0.0s
[CV 4/5; 803/1980] START leaf_size=28, n_neighbors=11...
[CV 2/5; 799/1980] END leaf_size=28, n_neighbors=7;; score=0.559 total time=
0.0s[CV 4/5; 797/1980] END leaf_size=28, n_neighbors=5;; score=0.589 total time=
0.0s

[CV 5/5; 797/1980] START leaf_size=28, n_neighbors=5...
[CV 3/5; 799/1980] START leaf_size=28, n_neighbors=7...

```

[CV 1/5; 792/1980] END leaf\_size=27, n\_neighbors=99;; score=0.641 total time=0.0s  
 [CV 2/5; 808/1980] START leaf\_size=28, n\_neighbors=16...  
 [CV 4/5; 796/1980] END leaf\_size=28, n\_neighbors=4;; score=0.580 total time=0.0s  
 [CV 5/5; 796/1980] START leaf\_size=28, n\_neighbors=4...  
 [CV 1/5; 805/1980] END leaf\_size=28, n\_neighbors=13;; score=0.633 total time=0.0s  
 [CV 2/5; 805/1980] START leaf\_size=28, n\_neighbors=13...  
 [CV 3/5; 800/1980] END leaf\_size=28, n\_neighbors=8;; score=0.551 total time=0.0s  
 [CV 4/5; 800/1980] START leaf\_size=28, n\_neighbors=8...  
 [CV 1/5; 802/1980] END leaf\_size=28, n\_neighbors=10;; score=0.611 total time=0.0s  
 [CV 2/5; 802/1980] START leaf\_size=28, n\_neighbors=10...  
 [CV 5/5; 786/1980] END leaf\_size=27, n\_neighbors=93;; score=0.617 total time=0.1s  
 [CV 1/5; 787/1980] START leaf\_size=27, n\_neighbors=94...  
 [CV 4/5; 803/1980] END leaf\_size=28, n\_neighbors=11;; score=0.589 total time=0.0s  
 [CV 5/5; 803/1980] START leaf\_size=28, n\_neighbors=11...  
 [CV 4/5; 806/1980] END leaf\_size=28, n\_neighbors=14;; score=0.584 total time=0.0s  
 [CV 5/5; 806/1980] START leaf\_size=28, n\_neighbors=14...  
 [CV 5/5; 797/1980] END leaf\_size=28, n\_neighbors=5;; score=0.591 total time=0.0s  
 [CV 1/5; 798/1980] START leaf\_size=28, n\_neighbors=6...  
 [CV 3/5; 799/1980] END leaf\_size=28, n\_neighbors=7;; score=0.551 total time=0.0s  
 [CV 4/5; 799/1980] START leaf\_size=28, n\_neighbors=7...  
 [CV 5/5; 796/1980] END leaf\_size=28, n\_neighbors=4;; score=0.593 total time=0.0s  
 [CV 2/5; 808/1980] END leaf\_size=28, n\_neighbors=16;; score=0.575 total time=0.0s  
 [CV 3/5; 808/1980] START leaf\_size=28, n\_neighbors=16...  
 [CV 5/5; 809/1980] START leaf\_size=28, n\_neighbors=17...  
 [CV 2/5; 805/1980] END leaf\_size=28, n\_neighbors=13;; score=0.570 total time=0.0s  
 [CV 3/5; 805/1980] START leaf\_size=28, n\_neighbors=13...  
 [CV 4/5; 800/1980] END leaf\_size=28, n\_neighbors=8;; score=0.617 total time=0.0s  
 [CV 5/5; 800/1980] START leaf\_size=28, n\_neighbors=8...  
 [CV 2/5; 802/1980] END leaf\_size=28, n\_neighbors=10;; score=0.568 total time=0.0s  
 [CV 3/5; 802/1980] START leaf\_size=28, n\_neighbors=10...  
 [CV 5/5; 803/1980] END leaf\_size=28, n\_neighbors=11;; score=0.606 total time=0.0s  
 [CV 1/5; 804/1980] START leaf\_size=28, n\_neighbors=12...



[CV 4/5; 799/1980] END leaf\_size=28, n\_neighbors=7;; score=0.584 total time=0.0s  
 [CV 5/5; 799/1980] START leaf\_size=28, n\_neighbors=7...  
 [CV 5/5; 806/1980] END leaf\_size=28, n\_neighbors=14;; score=0.606 total time=0.0s  
 [CV 1/5; 807/1980] START leaf\_size=28, n\_neighbors=15...  
 [CV 1/5; 798/1980] END leaf\_size=28, n\_neighbors=6;; score=0.570 total time=0.0s  
 [CV 2/5; 798/1980] START leaf\_size=28, n\_neighbors=6...  
 [CV 3/5; 808/1980] END leaf\_size=28, n\_neighbors=16;; score=0.557 total time=0.0s  
 [CV 4/5; 808/1980] START leaf\_size=28, n\_neighbors=16...  
 [CV 3/5; 805/1980] END leaf\_size=28, n\_neighbors=13;; score=0.553 total time=0.0s  
 [CV 4/5; 805/1980] START leaf\_size=28, n\_neighbors=13...  
 [CV 5/5; 800/1980] END leaf\_size=28, n\_neighbors=8;; score=0.608 total time=0.0s  
 [CV 1/5; 801/1980] START leaf\_size=28, n\_neighbors=9...  
 [CV 5/5; 809/1980] END leaf\_size=28, n\_neighbors=17;; score=0.610 total time=0.0s  
 [CV 1/5; 810/1980] START leaf\_size=28, n\_neighbors=18...  
 [CV 3/5; 802/1980] END leaf\_size=28, n\_neighbors=10;; score=0.549 total time=0.0s  
 [CV 4/5; 802/1980] START leaf\_size=28, n\_neighbors=10...  
 [CV 5/5; 799/1980] END leaf\_size=28, n\_neighbors=7;; score=0.613 total time=0.0s  
 [CV 1/5; 800/1980] START leaf\_size=28, n\_neighbors=8...  
 [CV 2/5; 798/1980] END leaf\_size=28, n\_neighbors=6;; score=0.546 total time=0.0s  
 [CV 3/5; 798/1980] START leaf\_size=28, n\_neighbors=6...  
 [CV 1/5; 804/1980] END leaf\_size=28, n\_neighbors=12;; score=0.648 total time=0.0s  
 [CV 2/5; 804/1980] START leaf\_size=28, n\_neighbors=12...  
 [CV 1/5; 807/1980] END leaf\_size=28, n\_neighbors=15;; score=0.637 total time=0.0s  
 [CV 2/5; 807/1980] START leaf\_size=28, n\_neighbors=15...  
 [CV 1/5; 787/1980] END leaf\_size=27, n\_neighbors=94;; score=0.644 total time=0.1s  
 [CV 2/5; 787/1980] START leaf\_size=27, n\_neighbors=94...  
 [CV 4/5; 805/1980] END leaf\_size=28, n\_neighbors=13;; score=0.574 total time=0.0s  
 [CV 5/5; 805/1980] START leaf\_size=28, n\_neighbors=13...  
 [CV 1/5; 801/1980] END leaf\_size=28, n\_neighbors=9;; score=0.592 total time=0.0s  
 [CV 2/5; 801/1980] START leaf\_size=28, n\_neighbors=9...  
 [CV 4/5; 802/1980] END leaf\_size=28, n\_neighbors=10;; score=0.597 total time=0.0s  
 [CV 5/5; 802/1980] START leaf\_size=28, n\_neighbors=10...

[CV 4/5; 808/1980] END leaf\_size=28, n\_neighbors=16;; score=0.584 total time=0.0s  
 [CV 1/5; 800/1980] END leaf\_size=28, n\_neighbors=8;; score=0.568 total time=0.0s  
 [CV 5/5; 808/1980] START leaf\_size=28, n\_neighbors=16...  
  
 [CV 1/5; 810/1980] END leaf\_size=28, n\_neighbors=18;; score=0.635 total time=0.0s  
 [CV 2/5; 810/1980] START leaf\_size=28, n\_neighbors=18...  
 [CV 3/5; 811/1980] START leaf\_size=28, n\_neighbors=19...  
 [CV 3/5; 798/1980] END leaf\_size=28, n\_neighbors=6;; score=0.555 total time=0.0s  
 [CV 2/5; 804/1980] END leaf\_size=28, n\_neighbors=12;; score=0.581 total time=0.0s  
 [CV 3/5; 804/1980] START leaf\_size=28, n\_neighbors=12...  
 [CV 2/5; 807/1980] END leaf\_size=28, n\_neighbors=15;; score=0.570 total time=0.0s  
 [CV 3/5; 807/1980] START leaf\_size=28, n\_neighbors=15...  
 [CV 1/5; 813/1980] START leaf\_size=28, n\_neighbors=21...  
 [CV 5/5; 805/1980] END leaf\_size=28, n\_neighbors=13;; score=0.591 total time=0.0s  
 [CV 1/5; 806/1980] START leaf\_size=28, n\_neighbors=14...  
 [CV 5/5; 802/1980] END leaf\_size=28, n\_neighbors=10;; score=0.615 total time=0.0s  
 [CV 1/5; 803/1980] START leaf\_size=28, n\_neighbors=11...  
 [CV 2/5; 801/1980] END leaf\_size=28, n\_neighbors=9;; score=0.570 total time=0.0s  
 [CV 3/5; 801/1980] START leaf\_size=28, n\_neighbors=9...  
 [CV 5/5; 808/1980] END leaf\_size=28, n\_neighbors=16;; score=0.621 total time=0.0s  
 [CV 1/5; 809/1980] START leaf\_size=28, n\_neighbors=17...  
 [CV 2/5; 810/1980] END leaf\_size=28, n\_neighbors=18;; score=0.590 total time=0.0s  
 [CV 3/5; 804/1980] END leaf\_size=28, n\_neighbors=12;; score=0.546 total time=0.0s  
  
 [CV 4/5; 804/1980] START leaf\_size=28, n\_neighbors=12...  
 [CV 3/5; 810/1980] START leaf\_size=28, n\_neighbors=18...  
 [CV 3/5; 811/1980] END leaf\_size=28, n\_neighbors=19;; score=0.551 total time=0.0s  
 [CV 4/5; 811/1980] START leaf\_size=28, n\_neighbors=19...  
 [CV 3/5; 807/1980] END leaf\_size=28, n\_neighbors=15;; score=0.557 total time=0.0s  
 [CV 4/5; 807/1980] START leaf\_size=28, n\_neighbors=15...  
 [CV 1/5; 806/1980] END leaf\_size=28, n\_neighbors=14;; score=0.644 total time=0.0s  
 [CV 2/5; 806/1980] START leaf\_size=28, n\_neighbors=14...  
 [CV 1/5; 813/1980] END leaf\_size=28, n\_neighbors=21;; score=0.626 total time=0.0s

[CV 2/5; 813/1980] START leaf\_size=28, n\_neighbors=21...  
 [CV 1/5; 803/1980] END leaf\_size=28, n\_neighbors=11;; score=0.624 total time=0.0s  
 [CV 2/5; 803/1980] START leaf\_size=28, n\_neighbors=11...  
 [CV 2/5; 787/1980] END leaf\_size=27, n\_neighbors=94;; score=0.600 total time=0.1s  
 [CV 3/5; 801/1980] END leaf\_size=28, n\_neighbors=9;; score=0.559 total time=0.0s  
 [CV 4/5; 801/1980] START leaf\_size=28, n\_neighbors=9...  
 [CV 1/5; 809/1980] END leaf\_size=28, n\_neighbors=17;; score=0.631 total time=0.0s  
 [CV 2/5; 809/1980] START leaf\_size=28, n\_neighbors=17...  
 [CV 4/5; 814/1980] START leaf\_size=28, n\_neighbors=22...  
 [CV 4/5; 804/1980] END leaf\_size=28, n\_neighbors=12;; score=0.576 total time=0.0s  
 [CV 5/5; 804/1980] START leaf\_size=28, n\_neighbors=12...  
 [CV 4/5; 811/1980] END leaf\_size=28, n\_neighbors=19;; score=0.589 total time=0.0s  
 [CV 5/5; 811/1980] START leaf\_size=28, n\_neighbors=19...  
 [CV 3/5; 810/1980] END leaf\_size=28, n\_neighbors=18;; score=0.555 total time=0.0s  
 [CV 4/5; 810/1980] START leaf\_size=28, n\_neighbors=18...  
 [CV 4/5; 807/1980] END leaf\_size=28, n\_neighbors=15;; score=0.584 total time=0.0s  
 [CV 5/5; 807/1980] START leaf\_size=28, n\_neighbors=15...  
 [CV 2/5; 806/1980] END leaf\_size=28, n\_neighbors=14;; score=0.572 total time=0.0s  
 [CV 3/5; 806/1980] START leaf\_size=28, n\_neighbors=14...  
 [CV 2/5; 813/1980] END leaf\_size=28, n\_neighbors=21;; score=0.581 total time=0.0s  
 [CV 3/5; 813/1980] START leaf\_size=28, n\_neighbors=21...  
 [CV 2/5; 803/1980] END leaf\_size=28, n\_neighbors=11;; score=0.579 total time=0.0s  
 [CV 2/5; 816/1980] START leaf\_size=28, n\_neighbors=24...  
 [CV 4/5; 801/1980] END leaf\_size=28, n\_neighbors=9;; score=0.589 total time=0.0s  
 [CV 5/5; 817/1980] START leaf\_size=28, n\_neighbors=25...  
 [CV 5/5; 804/1980] END leaf\_size=28, n\_neighbors=12;; score=0.613 total time=0.0s  
 [CV 2/5; 809/1980] END leaf\_size=28, n\_neighbors=17;; score=0.568 total time=0.0s  
 [CV 3/5; 809/1980] START leaf\_size=28, n\_neighbors=17...  
 [CV 4/5; 810/1980] END leaf\_size=28, n\_neighbors=18;; score=0.600 total time=0.0s  
 [CV 5/5; 810/1980] START leaf\_size=28, n\_neighbors=18...  
 [CV 5/5; 811/1980] END leaf\_size=28, n\_neighbors=19;; score=0.626 total time=0.0s  
 [CV 1/5; 812/1980] START leaf\_size=28, n\_neighbors=20...

[CV 3/5; 819/1980] START leaf\_size=28, n\_neighbors=27...  
 [CV 5/5; 807/1980] END leaf\_size=28, n\_neighbors=15;; score=0.615 total time=0.0s  
 [CV 1/5; 808/1980] START leaf\_size=28, n\_neighbors=16...  
 [CV 3/5; 806/1980] END leaf\_size=28, n\_neighbors=14;; score=0.544 total time=0.0s  
 [CV 3/5; 813/1980] END leaf\_size=28, n\_neighbors=21;; score=0.559 total time=0.0s  
 [CV 4/5; 813/1980] START leaf\_size=28, n\_neighbors=21...  
 [CV 1/5; 821/1980] START leaf\_size=28, n\_neighbors=29...  
 [CV 4/5; 814/1980] END leaf\_size=28, n\_neighbors=22;; score=0.600 total time=0.0s  
 [CV 5/5; 814/1980] START leaf\_size=28, n\_neighbors=22...  
 [CV 2/5; 816/1980] END leaf\_size=28, n\_neighbors=24;; score=0.596 total time=0.0s  
 [CV 3/5; 816/1980] START leaf\_size=28, n\_neighbors=24...  
 [CV 5/5; 810/1980] END leaf\_size=28, n\_neighbors=18;; score=0.617 total time=0.0s  
 [CV 3/5; 809/1980] END leaf\_size=28, n\_neighbors=17;; score=0.564 total time=0.0s  
 [CV 1/5; 811/1980] START leaf\_size=28, n\_neighbors=19...  
 [CV 4/5; 809/1980] START leaf\_size=28, n\_neighbors=17...  
 [CV 5/5; 817/1980] END leaf\_size=28, n\_neighbors=25;; score=0.647 total time=0.0s  
 [CV 1/5; 818/1980] START leaf\_size=28, n\_neighbors=26...  
 [CV 1/5; 812/1980] END leaf\_size=28, n\_neighbors=20;; score=0.618 total time=0.0s  
 [CV 2/5; 812/1980] START leaf\_size=28, n\_neighbors=20...  
 [CV 3/5; 819/1980] END leaf\_size=28, n\_neighbors=27;; score=0.568 total time=0.0s  
 [CV 4/5; 819/1980] START leaf\_size=28, n\_neighbors=27...  
 [CV 1/5; 808/1980] END leaf\_size=28, n\_neighbors=16;; score=0.637 total time=0.0s  
 [CV 4/5; 822/1980] START leaf\_size=28, n\_neighbors=30...  
 [CV 4/5; 813/1980] END leaf\_size=28, n\_neighbors=21;; score=0.606 total time=0.0s  
 [CV 5/5; 813/1980] START leaf\_size=28, n\_neighbors=21...  
 [CV 1/5; 821/1980] END leaf\_size=28, n\_neighbors=29;; score=0.646 total time=0.0s  
 [CV 2/5; 821/1980] START leaf\_size=28, n\_neighbors=29...  
 [CV 3/5; 816/1980] END leaf\_size=28, n\_neighbors=24;; score=0.564 total time=0.0s  
 [CV 4/5; 816/1980] START leaf\_size=28, n\_neighbors=24...  
 [CV 1/5; 811/1980] END leaf\_size=28, n\_neighbors=19;; score=0.637 total time=0.0s  
 [CV 2/5; 811/1980] START leaf\_size=28, n\_neighbors=19...  
 [CV 4/5; 809/1980] END leaf\_size=28, n\_neighbors=17;; score=0.580 total time=0.0s

[CV 2/5; 824/1980] START leaf\_size=28, n\_neighbors=32...  
 [CV 1/5; 818/1980] END leaf\_size=28, n\_neighbors=26;; score=0.639 total time=0.0s  
 [CV 2/5; 818/1980] START leaf\_size=28, n\_neighbors=26...  
 [CV 4/5; 819/1980] END leaf\_size=28, n\_neighbors=27;; score=0.593 total time=0.0s  
 [CV 5/5; 819/1980] START leaf\_size=28, n\_neighbors=27...  
 [CV 2/5; 812/1980] END leaf\_size=28, n\_neighbors=20;; score=0.583 total time=0.0s  
 [CV 3/5; 812/1980] START leaf\_size=28, n\_neighbors=20...  
 [CV 4/5; 822/1980] END leaf\_size=28, n\_neighbors=30;; score=0.595 total time=0.0s  
 [CV 5/5; 822/1980] START leaf\_size=28, n\_neighbors=30...  
 [CV 5/5; 813/1980] END leaf\_size=28, n\_neighbors=21;; score=0.621 total time=0.0s  
 [CV 1/5; 814/1980] START leaf\_size=28, n\_neighbors=22...  
 [CV 5/5; 814/1980] END leaf\_size=28, n\_neighbors=22;; score=0.628 total time=0.0s  
 [CV 1/5; 815/1980] START leaf\_size=28, n\_neighbors=23...  
 [CV 2/5; 821/1980] END leaf\_size=28, n\_neighbors=29;; score=0.600 total time=0.0s  
 [CV 3/5; 821/1980] START leaf\_size=28, n\_neighbors=29...  
 [CV 4/5; 816/1980] END leaf\_size=28, n\_neighbors=24;; score=0.597 total time=0.0s  
 [CV 5/5; 816/1980] START leaf\_size=28, n\_neighbors=24...  
 [CV 2/5; 811/1980] END leaf\_size=28, n\_neighbors=19;; score=0.583 total time=0.0s  
 [CV 5/5; 825/1980] START leaf\_size=28, n\_neighbors=33...  
 [CV 2/5; 824/1980] END leaf\_size=28, n\_neighbors=32;; score=0.605 total time=0.0s  
 [CV 3/5; 824/1980] START leaf\_size=28, n\_neighbors=32...  
 [CV 5/5; 819/1980] END leaf\_size=28, n\_neighbors=27;; score=0.630 total time=0.0s  
 [CV 1/5; 820/1980] START leaf\_size=28, n\_neighbors=28...  
 [CV 2/5; 818/1980] END leaf\_size=28, n\_neighbors=26;; score=0.600 total time=0.0s  
 [CV 3/5; 818/1980] START leaf\_size=28, n\_neighbors=26...  
 [CV 3/5; 812/1980] END leaf\_size=28, n\_neighbors=20;; score=0.553 total time=0.0s  
 [CV 4/5; 812/1980] START leaf\_size=28, n\_neighbors=20...  
 [CV 5/5; 822/1980] END leaf\_size=28, n\_neighbors=30;; score=0.632 total time=0.0s  
 [CV 1/5; 823/1980] START leaf\_size=28, n\_neighbors=31...  
 [CV 1/5; 814/1980] END leaf\_size=28, n\_neighbors=22;; score=0.622 total time=0.0s  
 [CV 2/5; 814/1980] START leaf\_size=28, n\_neighbors=22...  
 [CV 3/5; 821/1980] END leaf\_size=28, n\_neighbors=29;; score=0.577 total time=0.0s

[CV 4/5; 821/1980] START leaf\_size=28, n\_neighbors=29...  
 [CV 5/5; 816/1980] END leaf\_size=28, n\_neighbors=24;; score=0.647 total time=0.0s  
 [CV 1/5; 817/1980] START leaf\_size=28, n\_neighbors=25...  
 [CV 5/5; 825/1980] END leaf\_size=28, n\_neighbors=33;; score=0.630 total time=0.0s  
 [CV 1/5; 826/1980] START leaf\_size=28, n\_neighbors=34...  
 [CV 4/5; 812/1980] END leaf\_size=28, n\_neighbors=20;; score=0.600 total time=0.0s  
 [CV 3/5; 824/1980] END leaf\_size=28, n\_neighbors=32;; score=0.577 total time= 0.0s  
 [CV 4/5; 824/1980] START leaf\_size=28, n\_neighbors=32...  
 [CV 1/5; 820/1980] END leaf\_size=28, n\_neighbors=28;; score=0.650 total time=0.0s  
 [CV 2/5; 820/1980] START leaf\_size=28, n\_neighbors=28...  
 [CV 3/5; 818/1980] END leaf\_size=28, n\_neighbors=26;; score=0.564 total time=0.0s  
 [CV 4/5; 818/1980] START leaf\_size=28, n\_neighbors=26...  
  
 [CV 5/5; 812/1980] START leaf\_size=28, n\_neighbors=20...  
 [CV 1/5; 823/1980] END leaf\_size=28, n\_neighbors=31;; score=0.644 total time=0.0s  
 [CV 2/5; 823/1980] START leaf\_size=28, n\_neighbors=31...  
 [CV 2/5; 814/1980] END leaf\_size=28, n\_neighbors=22;; score=0.587 total time=0.0s  
 [CV 3/5; 814/1980] START leaf\_size=28, n\_neighbors=22...  
 [CV 4/5; 821/1980] END leaf\_size=28, n\_neighbors=29;; score=0.600 total time=0.0s  
 [CV 5/5; 821/1980] START leaf\_size=28, n\_neighbors=29...  
 [CV 1/5; 815/1980] END leaf\_size=28, n\_neighbors=23;; score=0.646 total time=0.1s  
 [CV 2/5; 815/1980] START leaf\_size=28, n\_neighbors=23...  
 [CV 1/5; 817/1980] END leaf\_size=28, n\_neighbors=25;; score=0.646 total time=0.0s  
 [CV 2/5; 817/1980] START leaf\_size=28, n\_neighbors=25...  
 [CV 1/5; 826/1980] END leaf\_size=28, n\_neighbors=34;; score=0.644 total time=0.0s  
 [CV 2/5; 826/1980] START leaf\_size=28, n\_neighbors=34...  
 [CV 2/5; 820/1980] END leaf\_size=28, n\_neighbors=28;; score=0.598 total time=0.0s  
 [CV 3/5; 820/1980] START leaf\_size=28, n\_neighbors=28...  
 [CV 5/5; 812/1980] END leaf\_size=28, n\_neighbors=20;; score=0.632 total time=0.0s  
 [CV 4/5; 818/1980] END leaf\_size=28, n\_neighbors=26;; score=0.593 total time=0.0s  
 [CV 5/5; 818/1980] START leaf\_size=28, n\_neighbors=26...  
 [CV 4/5; 824/1980] END leaf\_size=28, n\_neighbors=32;; score=0.593 total time=0.0s  
 [CV 5/5; 824/1980] START leaf\_size=28, n\_neighbors=32...

[CV 3/5; 827/1980] START leaf\_size=28, n\_neighbors=35...  
 [CV 2/5; 823/1980] END leaf\_size=28, n\_neighbors=31;; score=0.603 total time=0.0s  
 [CV 3/5; 823/1980] START leaf\_size=28, n\_neighbors=31...  
 [CV 3/5; 814/1980] END leaf\_size=28, n\_neighbors=22;; score=0.555 total time=0.0s  
 [CV 5/5; 821/1980] END leaf\_size=28, n\_neighbors=29;; score=0.639 total time=0.0s  
 [CV 1/5; 822/1980] START leaf\_size=28, n\_neighbors=30...  
 [CV 2/5; 817/1980] END leaf\_size=28, n\_neighbors=25;; score=0.598 total time=0.0s  
 [CV 3/5; 817/1980] START leaf\_size=28, n\_neighbors=25...  
 [CV 2/5; 826/1980] END leaf\_size=28, n\_neighbors=34;; score=0.600 total time=0.0s  
 [CV 3/5; 826/1980] START leaf\_size=28, n\_neighbors=34...  
 [CV 1/5; 829/1980] START leaf\_size=28, n\_neighbors=37...  
 [CV 3/5; 820/1980] END leaf\_size=28, n\_neighbors=28;; score=0.568 total time=0.0s  
 [CV 4/5; 820/1980] START leaf\_size=28, n\_neighbors=28...  
 [CV 5/5; 818/1980] END leaf\_size=28, n\_neighbors=26;; score=0.628 total time=0.0s  
 [CV 1/5; 819/1980] START leaf\_size=28, n\_neighbors=27...  
 [CV 3/5; 827/1980] END leaf\_size=28, n\_neighbors=35;; score=0.572 total time=0.0s  
 [CV 4/5; 827/1980] START leaf\_size=28, n\_neighbors=35...  
 [CV 5/5; 824/1980] END leaf\_size=28, n\_neighbors=32;; score=0.628 total time=0.0s  
 [CV 1/5; 825/1980] START leaf\_size=28, n\_neighbors=33...  
 [CV 3/5; 823/1980] END leaf\_size=28, n\_neighbors=31;; score=0.570 total time=0.0s  
 [CV 4/5; 823/1980] START leaf\_size=28, n\_neighbors=31...  
 [CV 2/5; 815/1980] END leaf\_size=28, n\_neighbors=23;; score=0.583 total time=0.0s  
 [CV 1/5; 822/1980] END leaf\_size=28, n\_neighbors=30;; score=0.639 total time=0.0s  
 [CV 2/5; 822/1980] START leaf\_size=28, n\_neighbors=30...  
 [CV 3/5; 815/1980] START leaf\_size=28, n\_neighbors=23...  
 [CV 3/5; 817/1980] END leaf\_size=28, n\_neighbors=25;; score=0.557 total time=0.0s  
 [CV 4/5; 817/1980] START leaf\_size=28, n\_neighbors=25...  
 [CV 3/5; 826/1980] END leaf\_size=28, n\_neighbors=34;; score=0.577 total time=0.0s  
 [CV 4/5; 826/1980] START leaf\_size=28, n\_neighbors=34...  
 [CV 1/5; 829/1980] END leaf\_size=28, n\_neighbors=37;; score=0.657 total time=0.0s  
 [CV 2/5; 829/1980] START leaf\_size=28, n\_neighbors=37...  
 [CV 4/5; 820/1980] END leaf\_size=28, n\_neighbors=28;; score=0.597 total time=0.0s

[CV 5/5; 820/1980] START leaf\_size=28, n\_neighbors=28...  
 [CV 1/5; 825/1980] END leaf\_size=28, n\_neighbors=33;, score=0.646 total time=0.0s  
 [CV 2/5; 825/1980] START leaf\_size=28, n\_neighbors=33...  
 [CV 1/5; 819/1980] END leaf\_size=28, n\_neighbors=27;, score=0.650 total time=0.0s  
 [CV 4/5; 823/1980] END leaf\_size=28, n\_neighbors=31;, score=0.595 total time= 0.0s  
 [CV 5/5; 823/1980] START leaf\_size=28, n\_neighbors=31...  
  
 [CV 2/5; 819/1980] START leaf\_size=28, n\_neighbors=27...  
 [CV 4/5; 827/1980] END leaf\_size=28, n\_neighbors=35;, score=0.604 total time=0.0s  
 [CV 5/5; 827/1980] START leaf\_size=28, n\_neighbors=35...  
 [CV 2/5; 822/1980] END leaf\_size=28, n\_neighbors=30;, score=0.607 total time=0.0s  
 [CV 3/5; 822/1980] START leaf\_size=28, n\_neighbors=30...  
 [CV 4/5; 817/1980] END leaf\_size=28, n\_neighbors=25;, score=0.587 total time=0.0s  
 [CV 4/5; 830/1980] START leaf\_size=28, n\_neighbors=38...  
 [CV 4/5; 826/1980] END leaf\_size=28, n\_neighbors=34;, score=0.597 total time=0.0s  
 [CV 5/5; 826/1980] START leaf\_size=28, n\_neighbors=34...  
 [CV 2/5; 829/1980] END leaf\_size=28, n\_neighbors=37;, score=0.607 total time=0.0s  
 [CV 3/5; 829/1980] START leaf\_size=28, n\_neighbors=37...  
 [CV 3/5; 815/1980] END leaf\_size=28, n\_neighbors=23;, score=0.557 total time=0.0s  
 [CV 4/5; 815/1980] START leaf\_size=28, n\_neighbors=23...  
 [CV 2/5; 825/1980] END leaf\_size=28, n\_neighbors=33;, score=0.607 total time=0.0s  
 [CV 3/5; 825/1980] START leaf\_size=28, n\_neighbors=33...  
 [CV 3/5; 822/1980] END leaf\_size=28, n\_neighbors=30;, score=0.579 total time=0.0s  
 [CV 2/5; 832/1980] START leaf\_size=28, n\_neighbors=40...  
 [CV 4/5; 830/1980] END leaf\_size=28, n\_neighbors=38;, score=0.602 total time=0.0s  
 [CV 5/5; 830/1980] START leaf\_size=28, n\_neighbors=38...  
 [CV 3/5; 829/1980] END leaf\_size=28, n\_neighbors=37;, score=0.568 total time=0.0s  
 [CV 4/5; 829/1980] START leaf\_size=28, n\_neighbors=37...  
 [CV 3/5; 825/1980] END leaf\_size=28, n\_neighbors=33;, score=0.570 total time=0.0s  
 [CV 4/5; 825/1980] START leaf\_size=28, n\_neighbors=33...  
 [CV 2/5; 832/1980] END leaf\_size=28, n\_neighbors=40;, score=0.611 total time=0.0s  
 [CV 3/5; 832/1980] START leaf\_size=28, n\_neighbors=40...  
 [CV 5/5; 830/1980] END leaf\_size=28, n\_neighbors=38;, score=0.634 total time=0.0s



[CV 1/5; 831/1980] START leaf\_size=28, n\_neighbors=39...  
 [CV 5/5; 823/1980] END leaf\_size=28, n\_neighbors=31;; score=0.634 total time=0.1s  
 [CV 1/5; 824/1980] START leaf\_size=28, n\_neighbors=32...  
 [CV 5/5; 827/1980] END leaf\_size=28, n\_neighbors=35;; score=0.639 total time=0.1s  
 [CV 4/5; 829/1980] END leaf\_size=28, n\_neighbors=37;; score=0.610 total time= 0.0s  
  
 [CV 5/5; 829/1980] START leaf\_size=28, n\_neighbors=37...  
 [CV 1/5; 828/1980] START leaf\_size=28, n\_neighbors=36...  
 [CV 5/5; 820/1980] END leaf\_size=28, n\_neighbors=28;; score=0.641 total time=0.1s  
 [CV 4/5; 815/1980] END leaf\_size=28, n\_neighbors=23;; score=0.600 total time=0.1s  
 [CV 5/5; 815/1980] START leaf\_size=28, n\_neighbors=23...  
 [CV 5/5; 833/1980] START leaf\_size=28, n\_neighbors=41...  
 [CV 5/5; 826/1980] END leaf\_size=28, n\_neighbors=34;; score=0.634 total time=0.1s  
 [CV 1/5; 827/1980] START leaf\_size=28, n\_neighbors=35...  
 [CV 2/5; 819/1980] END leaf\_size=28, n\_neighbors=27;; score=0.594 total time=0.1s  
 [CV 3/5; 835/1980] START leaf\_size=28, n\_neighbors=43...  
 [CV 4/5; 825/1980] END leaf\_size=28, n\_neighbors=33;; score=0.597 total time=0.0s  
 [CV 1/5; 837/1980] START leaf\_size=28, n\_neighbors=45...  
 [CV 3/5; 832/1980] END leaf\_size=28, n\_neighbors=40;; score=0.572 total time=0.0s  
 [CV 4/5; 832/1980] START leaf\_size=28, n\_neighbors=40...  
 [CV 1/5; 831/1980] END leaf\_size=28, n\_neighbors=39;; score=0.654 total time=0.0s  
 [CV 2/5; 831/1980] START leaf\_size=28, n\_neighbors=39...  
 [CV 1/5; 824/1980] END leaf\_size=28, n\_neighbors=32;; score=0.639 total time=0.0s  
 [CV 5/5; 829/1980] END leaf\_size=28, n\_neighbors=37;; score=0.628 total time=0.0s  
 [CV 1/5; 830/1980] START leaf\_size=28, n\_neighbors=38...  
 [CV 4/5; 838/1980] START leaf\_size=28, n\_neighbors=46...  
 [CV 5/5; 833/1980] END leaf\_size=28, n\_neighbors=41;; score=0.619 total time=0.0s  
 [CV 1/5; 834/1980] START leaf\_size=28, n\_neighbors=42...  
 [CV 1/5; 827/1980] END leaf\_size=28, n\_neighbors=35;; score=0.650 total time=0.0s  
 [CV 2/5; 827/1980] START leaf\_size=28, n\_neighbors=35...  
 [CV 4/5; 832/1980] END leaf\_size=28, n\_neighbors=40;; score=0.595 total time=0.0s  
 [CV 5/5; 832/1980] START leaf\_size=28, n\_neighbors=40...  
 [CV 5/5; 815/1980] END leaf\_size=28, n\_neighbors=23;; score=0.643 total time=0.0s

[CV 1/5; 816/1980] START leaf\_size=28, n\_neighbors=24...  
 [CV 1/5; 828/1980] END leaf\_size=28, n\_neighbors=36;; score=0.644 total time=0.1s  
 [CV 2/5; 831/1980] END leaf\_size=28, n\_neighbors=39;; score=0.609 total time= 0.0s  
 [CV 3/5; 831/1980] START leaf\_size=28, n\_neighbors=39...  
 [CV 1/5; 830/1980] END leaf\_size=28, n\_neighbors=38;; score=0.652 total time=0.0s  
 [CV 2/5; 830/1980] START leaf\_size=28, n\_neighbors=38...  
  
 [CV 2/5; 828/1980] START leaf\_size=28, n\_neighbors=36...  
 [CV 4/5; 838/1980] END leaf\_size=28, n\_neighbors=46;; score=0.597 total time=0.0s  
 [CV 5/5; 838/1980] START leaf\_size=28, n\_neighbors=46...  
 [CV 1/5; 834/1980] END leaf\_size=28, n\_neighbors=42;; score=0.667 total time=0.0s  
 [CV 2/5; 834/1980] START leaf\_size=28, n\_neighbors=42...  
 [CV 1/5; 837/1980] END leaf\_size=28, n\_neighbors=45;; score=0.678 total time=0.0s  
 [CV 2/5; 837/1980] START leaf\_size=28, n\_neighbors=45...  
 [CV 2/5; 827/1980] END leaf\_size=28, n\_neighbors=35;; score=0.607 total time=0.0s  
 [CV 3/5; 835/1980] END leaf\_size=28, n\_neighbors=43;; score=0.566 total time=0.1s  
 [CV 4/5; 835/1980] START leaf\_size=28, n\_neighbors=43...  
 [CV 2/5; 840/1980] START leaf\_size=28, n\_neighbors=48...  
 [CV 5/5; 832/1980] END leaf\_size=28, n\_neighbors=40;; score=0.617 total time=0.0s  
 [CV 1/5; 833/1980] START leaf\_size=28, n\_neighbors=41...  
 [CV 3/5; 831/1980] END leaf\_size=28, n\_neighbors=39;; score=0.575 total time=0.0s  
 [CV 4/5; 831/1980] START leaf\_size=28, n\_neighbors=39...  
 [CV 2/5; 830/1980] END leaf\_size=28, n\_neighbors=38;; score=0.613 total time=0.0s  
 [CV 3/5; 830/1980] START leaf\_size=28, n\_neighbors=38...  
 [CV 2/5; 834/1980] END leaf\_size=28, n\_neighbors=42;; score=0.618 total time=0.0s  
 [CV 3/5; 834/1980] START leaf\_size=28, n\_neighbors=42...  
 [CV 5/5; 838/1980] END leaf\_size=28, n\_neighbors=46;; score=0.619 total time=0.0s  
 [CV 1/5; 839/1980] START leaf\_size=28, n\_neighbors=47...  
 [CV 2/5; 840/1980] END leaf\_size=28, n\_neighbors=48;; score=0.609 total time=0.0s  
 [CV 3/5; 840/1980] START leaf\_size=28, n\_neighbors=48...  
 [CV 2/5; 828/1980] END leaf\_size=28, n\_neighbors=36;; score=0.616 total time=0.0s  
 [CV 3/5; 828/1980] START leaf\_size=28, n\_neighbors=36...  
 [CV 2/5; 837/1980] END leaf\_size=28, n\_neighbors=45;; score=0.611 total time=0.0s

[CV 3/5; 837/1980] START leaf\_size=28, n\_neighbors=45...  
 [CV 1/5; 816/1980] END leaf\_size=28, n\_neighbors=24;; score=0.646 total time=0.0s  
 [CV 5/5; 841/1980] START leaf\_size=28, n\_neighbors=49...  
 [CV 1/5; 833/1980] END leaf\_size=28, n\_neighbors=41;; score=0.665 total time=0.0s  
 [CV 2/5; 833/1980] START leaf\_size=28, n\_neighbors=41...  
 [CV 4/5; 835/1980] END leaf\_size=28, n\_neighbors=43;; score=0.600 total time=0.0s  
 [CV 4/5; 831/1980] END leaf\_size=28, n\_neighbors=39;; score=0.602 total time= 0.0s  
 [CV 5/5; 831/1980] START leaf\_size=28, n\_neighbors=39...  
  
 [CV 5/5; 835/1980] START leaf\_size=28, n\_neighbors=43...  
 [CV 3/5; 830/1980] END leaf\_size=28, n\_neighbors=38;; score=0.566 total time=0.0s  
 [CV 3/5; 843/1980] START leaf\_size=28, n\_neighbors=51...  
 [CV 3/5; 834/1980] END leaf\_size=28, n\_neighbors=42;; score=0.564 total time=0.0s  
 [CV 4/5; 834/1980] START leaf\_size=28, n\_neighbors=42...  
 [CV 3/5; 840/1980] END leaf\_size=28, n\_neighbors=48;; score=0.562 total time=0.0s  
 [CV 4/5; 840/1980] START leaf\_size=28, n\_neighbors=48...  
 [CV 1/5; 839/1980] END leaf\_size=28, n\_neighbors=47;; score=0.676 total time=0.0s  
 [CV 2/5; 839/1980] START leaf\_size=28, n\_neighbors=47...  
 [CV 3/5; 828/1980] END leaf\_size=28, n\_neighbors=36;; score=0.566 total time=0.0s  
 [CV 4/5; 828/1980] START leaf\_size=28, n\_neighbors=36...  
 [CV 2/5; 833/1980] END leaf\_size=28, n\_neighbors=41;; score=0.618 total time=0.0s  
 [CV 3/5; 833/1980] START leaf\_size=28, n\_neighbors=41...  
 [CV 5/5; 831/1980] END leaf\_size=28, n\_neighbors=39;; score=0.636 total time=0.0s  
 [CV 1/5; 832/1980] START leaf\_size=28, n\_neighbors=40...  
 [CV 3/5; 837/1980] END leaf\_size=28, n\_neighbors=45;; score=0.575 total time=0.0s  
 [CV 4/5; 837/1980] START leaf\_size=28, n\_neighbors=45...  
 [CV 5/5; 841/1980] END leaf\_size=28, n\_neighbors=49;; score=0.623 total time=0.0s  
 [CV 1/5; 842/1980] START leaf\_size=28, n\_neighbors=50...  
 [CV 5/5; 835/1980] END leaf\_size=28, n\_neighbors=43;; score=0.615 total time=0.0s  
 [CV 1/5; 836/1980] START leaf\_size=28, n\_neighbors=44...  
 [CV 4/5; 834/1980] END leaf\_size=28, n\_neighbors=42;; score=0.608 total time=0.0s  
 [CV 5/5; 834/1980] START leaf\_size=28, n\_neighbors=42...  
 [CV 3/5; 843/1980] END leaf\_size=28, n\_neighbors=51;; score=0.566 total time=0.0s

[CV 4/5; 843/1980] START leaf\_size=28, n\_neighbors=51...  
 [CV 4/5; 840/1980] END leaf\_size=28, n\_neighbors=48;; score=0.589 total time=0.0s  
 [CV 5/5; 840/1980] START leaf\_size=28, n\_neighbors=48...  
 [CV 2/5; 839/1980] END leaf\_size=28, n\_neighbors=47;; score=0.611 total time=0.0s  
 [CV 3/5; 839/1980] START leaf\_size=28, n\_neighbors=47...  
 [CV 3/5; 833/1980] END leaf\_size=28, n\_neighbors=41;; score=0.568 total time=0.0s  
 [CV 4/5; 833/1980] START leaf\_size=28, n\_neighbors=41...  
 [CV 4/5; 828/1980] END leaf\_size=28, n\_neighbors=36;; score=0.600 total time=0.0s  
 [CV 5/5; 828/1980] START leaf\_size=28, n\_neighbors=36...  
 [CV 1/5; 832/1980] END leaf\_size=28, n\_neighbors=40;; score=0.661 total time=0.0s  
 [CV 4/5; 837/1980] END leaf\_size=28, n\_neighbors=45;; score=0.600 total time=0.0s  
 [CV 5/5; 837/1980] START leaf\_size=28, n\_neighbors=45...  
 [CV 5/5; 834/1980] END leaf\_size=28, n\_neighbors=42;; score=0.621 total time=0.0s  
 [CV 1/5; 835/1980] START leaf\_size=28, n\_neighbors=43...  
 [CV 5/5; 840/1980] END leaf\_size=28, n\_neighbors=48;; score=0.630 total time=0.0s  
 [CV 4/5; 843/1980] END leaf\_size=28, n\_neighbors=51;; score=0.602 total time=0.0s  
  
 [CV 5/5; 843/1980] START leaf\_size=28, n\_neighbors=51...  
 [CV 1/5; 841/1980] START leaf\_size=28, n\_neighbors=49...  
 [CV 1/5; 845/1980] START leaf\_size=28, n\_neighbors=53...  
 [CV 1/5; 836/1980] END leaf\_size=28, n\_neighbors=44;; score=0.667 total time=0.0s  
 [CV 2/5; 836/1980] START leaf\_size=28, n\_neighbors=44...  
 [CV 3/5; 839/1980] END leaf\_size=28, n\_neighbors=47;; score=0.572 total time=0.0s  
 [CV 4/5; 839/1980] START leaf\_size=28, n\_neighbors=47...  
 [CV 4/5; 833/1980] END leaf\_size=28, n\_neighbors=41;; score=0.610 total time=0.0s  
 [CV 4/5; 846/1980] START leaf\_size=28, n\_neighbors=54...  
 [CV 1/5; 842/1980] END leaf\_size=28, n\_neighbors=50;; score=0.678 total time=0.0s  
 [CV 2/5; 842/1980] START leaf\_size=28, n\_neighbors=50...  
 [CV 5/5; 828/1980] END leaf\_size=28, n\_neighbors=36;; score=0.628 total time=0.0s  
 [CV 5/5; 837/1980] END leaf\_size=28, n\_neighbors=45;; score=0.619 total time=0.0s  
 [CV 1/5; 838/1980] START leaf\_size=28, n\_neighbors=46...  
 [CV 2/5; 848/1980] START leaf\_size=28, n\_neighbors=56...  
 [CV 1/5; 835/1980] END leaf\_size=28, n\_neighbors=43;; score=0.674 total time=0.0s

[CV 2/5; 835/1980] START leaf\_size=28, n\_neighbors=43...  
 [CV 5/5; 843/1980] END leaf\_size=28, n\_neighbors=51;; score=0.621 total time=0.0s  
 [CV 1/5; 844/1980] START leaf\_size=28, n\_neighbors=52...  
 [CV 1/5; 841/1980] END leaf\_size=28, n\_neighbors=49;; score=0.676 total time=0.0s  
 [CV 2/5; 841/1980] START leaf\_size=28, n\_neighbors=49...  
 [CV 2/5; 836/1980] END leaf\_size=28, n\_neighbors=44;; score=0.613 total time=0.0s  
 [CV 3/5; 836/1980] START leaf\_size=28, n\_neighbors=44...  
 [CV 1/5; 845/1980] END leaf\_size=28, n\_neighbors=53;; score=0.678 total time=0.0s  
 [CV 2/5; 845/1980] START leaf\_size=28, n\_neighbors=53...  
 [CV 4/5; 839/1980] END leaf\_size=28, n\_neighbors=47;; score=0.589 total time=0.0s  
 [CV 5/5; 839/1980] START leaf\_size=28, n\_neighbors=47...  
 [CV 4/5; 846/1980] END leaf\_size=28, n\_neighbors=54;; score=0.595 total time=0.0s  
 [CV 5/5; 846/1980] START leaf\_size=28, n\_neighbors=54...  
 [CV 2/5; 835/1980] END leaf\_size=28, n\_neighbors=43;; score=0.616 total time=0.0s  
 [CV 2/5; 842/1980] END leaf\_size=28, n\_neighbors=50;; score=0.603 total time=0.0s  
 [CV 3/5; 842/1980] START leaf\_size=28, n\_neighbors=50...  
 [CV 5/5; 849/1980] START leaf\_size=28, n\_neighbors=57...  
 [CV 2/5; 848/1980] END leaf\_size=28, n\_neighbors=56;; score=0.609 total time=0.0s  
 [CV 3/5; 848/1980] START leaf\_size=28, n\_neighbors=56...  
 [CV 2/5; 841/1980] END leaf\_size=28, n\_neighbors=49;; score=0.622 total time=0.0s  
 [CV 3/5; 841/1980] START leaf\_size=28, n\_neighbors=49...  
 [CV 1/5; 844/1980] END leaf\_size=28, n\_neighbors=52;; score=0.676 total time=0.0s  
 [CV 2/5; 844/1980] START leaf\_size=28, n\_neighbors=52...  
 [CV 3/5; 836/1980] END leaf\_size=28, n\_neighbors=44;; score=0.570 total time=0.0s  
 [CV 4/5; 836/1980] START leaf\_size=28, n\_neighbors=44...  
 [CV 1/5; 838/1980] END leaf\_size=28, n\_neighbors=46;; score=0.672 total time=0.0s  
 [CV 2/5; 838/1980] START leaf\_size=28, n\_neighbors=46...  
 [CV 5/5; 839/1980] END leaf\_size=28, n\_neighbors=47;; score=0.623 total time=0.0s  
 [CV 1/5; 840/1980] START leaf\_size=28, n\_neighbors=48...  
 [CV 2/5; 845/1980] END leaf\_size=28, n\_neighbors=53;; score=0.611 total time=0.0s  
 [CV 5/5; 846/1980] END leaf\_size=28, n\_neighbors=54;; score=0.608 total time=0.0s  
 [CV 3/5; 845/1980] START leaf\_size=28, n\_neighbors=53...

[CV 1/5; 847/1980] START leaf\_size=28, n\_neighbors=55...  
 [CV 5/5; 849/1980] END leaf\_size=28, n\_neighbors=57;; score=0.610 total time=0.0s  
 [CV 1/5; 850/1980] START leaf\_size=28, n\_neighbors=58...  
 [CV 3/5; 841/1980] END leaf\_size=28, n\_neighbors=49;; score=0.568 total time=0.0s  
 [CV 4/5; 841/1980] START leaf\_size=28, n\_neighbors=49...  
 [CV 3/5; 848/1980] END leaf\_size=28, n\_neighbors=56;; score=0.551 total time=0.0s  
 [CV 4/5; 848/1980] START leaf\_size=28, n\_neighbors=56...  
 [CV 3/5; 842/1980] END leaf\_size=28, n\_neighbors=50;; score=0.557 total time=0.0s  
 [CV 4/5; 842/1980] START leaf\_size=28, n\_neighbors=50...  
 [CV 2/5; 844/1980] END leaf\_size=28, n\_neighbors=52;; score=0.611 total time=0.0s  
 [CV 3/5; 844/1980] START leaf\_size=28, n\_neighbors=52...  
 [CV 4/5; 836/1980] END leaf\_size=28, n\_neighbors=44;; score=0.597 total time=0.0s  
 [CV 5/5; 836/1980] START leaf\_size=28, n\_neighbors=44...  
 [CV 2/5; 838/1980] END leaf\_size=28, n\_neighbors=46;; score=0.616 total time=0.0s  
 [CV 3/5; 838/1980] START leaf\_size=28, n\_neighbors=46...  
 [CV 1/5; 847/1980] END leaf\_size=28, n\_neighbors=55;; score=0.667 total time=0.0s  
 [CV 2/5; 847/1980] START leaf\_size=28, n\_neighbors=55...  
 [CV 1/5; 840/1980] END leaf\_size=28, n\_neighbors=48;; score=0.672 total time=0.0s  
 [CV 3/5; 845/1980] END leaf\_size=28, n\_neighbors=53;; score=0.572 total time=0.0s  
 [CV 4/5; 845/1980] START leaf\_size=28, n\_neighbors=53...  
 [CV 3/5; 851/1980] START leaf\_size=28, n\_neighbors=59...  
 [CV 4/5; 841/1980] END leaf\_size=28, n\_neighbors=49;; score=0.593 total time=0.0s  
 [CV 1/5; 850/1980] END leaf\_size=28, n\_neighbors=58;; score=0.665 total time=0.0s  
 [CV 2/5; 850/1980] START leaf\_size=28, n\_neighbors=58...  
 [CV 1/5; 853/1980] START leaf\_size=28, n\_neighbors=61...  
 [CV 4/5; 848/1980] END leaf\_size=28, n\_neighbors=56;; score=0.591 total time=0.0s  
 [CV 5/5; 848/1980] START leaf\_size=28, n\_neighbors=56...  
 [CV 3/5; 844/1980] END leaf\_size=28, n\_neighbors=52;; score=0.566 total time=0.0s  
 [CV 4/5; 844/1980] START leaf\_size=28, n\_neighbors=52...  
 [CV 5/5; 836/1980] END leaf\_size=28, n\_neighbors=44;; score=0.615 total time=0.0s  
 [CV 3/5; 838/1980] END leaf\_size=28, n\_neighbors=46;; score=0.572 total time=0.0s  
 [CV 2/5; 847/1980] END leaf\_size=28, n\_neighbors=55;; score=0.618 total time=

```

0.0s
[CV 3/5; 847/1980] START leaf_size=28, n_neighbors=55...
[CV 2/5; 856/1980] START leaf_size=28, n_neighbors=64...
[CV 4/5; 854/1980] START leaf_size=28, n_neighbors=62...
[CV 4/5; 842/1980] END leaf_size=28, n_neighbors=50;; score=0.597 total time=
0.0s
[CV 5/5; 842/1980] START leaf_size=28, n_neighbors=50...
[CV 4/5; 845/1980] END leaf_size=28, n_neighbors=53;; score=0.600 total time=
0.0s
[CV 5/5; 845/1980] START leaf_size=28, n_neighbors=53...
[CV 3/5; 851/1980] END leaf_size=28, n_neighbors=59;; score=0.553 total time=
0.0s
[CV 4/5; 851/1980] START leaf_size=28, n_neighbors=59...
[CV 2/5; 850/1980] END leaf_size=28, n_neighbors=58;; score=0.609 total time=
0.0s
[CV 3/5; 850/1980] START leaf_size=28, n_neighbors=58...
[CV 1/5; 853/1980] END leaf_size=28, n_neighbors=61;; score=0.665 total time=
0.0s
[CV 2/5; 853/1980] START leaf_size=28, n_neighbors=61...
[CV 4/5; 844/1980] END leaf_size=28, n_neighbors=52;; score=0.597 total time=
0.0s
[CV 5/5; 844/1980] START leaf_size=28, n_neighbors=52...
[CV 5/5; 848/1980] END leaf_size=28, n_neighbors=56;; score=0.613 total time=
0.0s
[CV 1/5; 849/1980] START leaf_size=28, n_neighbors=57...
[CV 3/5; 847/1980] END leaf_size=28, n_neighbors=55;; score=0.564 total time=
0.0s
[CV 4/5; 847/1980] START leaf_size=28, n_neighbors=55...
[CV 5/5; 845/1980] END leaf_size=28, n_neighbors=53;; score=0.613 total time=
0.0s
[CV 1/5; 846/1980] START leaf_size=28, n_neighbors=54...
[CV 4/5; 854/1980] END leaf_size=28, n_neighbors=62;; score=0.600 total time=
0.0s
[CV 5/5; 854/1980] START leaf_size=28, n_neighbors=62...
[CV 5/5; 842/1980] END leaf_size=28, n_neighbors=50;; score=0.619 total time=
0.0s
[CV 1/5; 843/1980] START leaf_size=28, n_neighbors=51...
[CV 4/5; 851/1980] END leaf_size=28, n_neighbors=59;; score=0.604 total time=
0.0s
[CV 5/5; 851/1980] START leaf_size=28, n_neighbors=59...
[CV 3/5; 850/1980] END leaf_size=28, n_neighbors=58;; score=0.549 total time=
0.0s
[CV 4/5; 850/1980] START leaf_size=28, n_neighbors=58...
[CV 2/5; 853/1980] END leaf_size=28, n_neighbors=61;; score=0.603 total time=
0.0s[CV 2/5; 856/1980] END leaf_size=28, n_neighbors=64;; score=0.609 total
time= 0.0s
[CV 3/5; 856/1980] START leaf_size=28, n_neighbors=64...

```

[CV 3/5; 853/1980] START leaf\_size=28, n\_neighbors=61...  
 [CV 5/5; 844/1980] END leaf\_size=28, n\_neighbors=52;; score=0.619 total time=0.0s  
 [CV 5/5; 857/1980] START leaf\_size=28, n\_neighbors=65...  
 [CV 4/5; 847/1980] END leaf\_size=28, n\_neighbors=55;; score=0.593 total time=0.0s  
 [CV 5/5; 847/1980] START leaf\_size=28, n\_neighbors=55...  
 [CV 1/5; 846/1980] END leaf\_size=28, n\_neighbors=54;; score=0.667 total time=0.0s  
 [CV 2/5; 846/1980] START leaf\_size=28, n\_neighbors=54...  
 [CV 5/5; 854/1980] END leaf\_size=28, n\_neighbors=62;; score=0.610 total time=0.0s  
 [CV 1/5; 855/1980] START leaf\_size=28, n\_neighbors=63...  
 [CV 1/5; 849/1980] END leaf\_size=28, n\_neighbors=57;; score=0.665 total time=0.1s  
 [CV 2/5; 849/1980] START leaf\_size=28, n\_neighbors=57...  
 [CV 4/5; 850/1980] END leaf\_size=28, n\_neighbors=58;; score=0.595 total time=0.0s  
 [CV 5/5; 850/1980] START leaf\_size=28, n\_neighbors=58...  
 [CV 5/5; 851/1980] END leaf\_size=28, n\_neighbors=59;; score=0.610 total time=0.0s  
 [CV 1/5; 852/1980] START leaf\_size=28, n\_neighbors=60...  
 [CV 3/5; 853/1980] END leaf\_size=28, n\_neighbors=61;; score=0.557 total time=0.0s  
 [CV 4/5; 853/1980] START leaf\_size=28, n\_neighbors=61...  
 [CV 1/5; 843/1980] END leaf\_size=28, n\_neighbors=51;; score=0.680 total time=0.0s  
 [CV 2/5; 843/1980] START leaf\_size=28, n\_neighbors=51...  
 [CV 3/5; 856/1980] END leaf\_size=28, n\_neighbors=64;; score=0.562 total time=0.0s  
 [CV 4/5; 856/1980] START leaf\_size=28, n\_neighbors=64...  
 [CV 5/5; 847/1980] END leaf\_size=28, n\_neighbors=55;; score=0.608 total time=0.0s  
 [CV 5/5; 857/1980] END leaf\_size=28, n\_neighbors=65;; score=0.621 total time=0.0s  
 [CV 1/5; 858/1980] START leaf\_size=28, n\_neighbors=66...  
  
 [CV 1/5; 848/1980] START leaf\_size=28, n\_neighbors=56...  
 [CV 2/5; 846/1980] END leaf\_size=28, n\_neighbors=54;; score=0.618 total time=0.0s  
 [CV 3/5; 846/1980] START leaf\_size=28, n\_neighbors=54...  
 [CV 5/5; 850/1980] END leaf\_size=28, n\_neighbors=58;; score=0.610 total time=0.0s  
 [CV 1/5; 851/1980] START leaf\_size=28, n\_neighbors=59...  
 [CV 2/5; 849/1980] END leaf\_size=28, n\_neighbors=57;; score=0.616 total time=0.0s  
 [CV 3/5; 849/1980] START leaf\_size=28, n\_neighbors=57...  
 [CV 1/5; 852/1980] END leaf\_size=28, n\_neighbors=60;; score=0.667 total time=0.0s  
 [CV 4/5; 853/1980] END leaf\_size=28, n\_neighbors=61;; score=0.604 total



time= 0.0s

[CV 5/5; 853/1980] START leaf\_size=28, n\_neighbors=61...  
[CV 2/5; 852/1980] START leaf\_size=28, n\_neighbors=60...  
[CV 1/5; 855/1980] END leaf\_size=28, n\_neighbors=63;; score=0.665 total time=0.0s  
[CV 2/5; 855/1980] START leaf\_size=28, n\_neighbors=63...  
[CV 1/5; 858/1980] END leaf\_size=28, n\_neighbors=66;; score=0.663 total time=0.0s  
[CV 2/5; 858/1980] START leaf\_size=28, n\_neighbors=66...  
[CV 2/5; 843/1980] END leaf\_size=28, n\_neighbors=51;; score=0.618 total time=0.0s  
[CV 1/5; 848/1980] END leaf\_size=28, n\_neighbors=56;; score=0.670 total time=0.0s  
[CV 3/5; 859/1980] START leaf\_size=28, n\_neighbors=67...  
[CV 1/5; 861/1980] START leaf\_size=28, n\_neighbors=69...  
[CV 3/5; 846/1980] END leaf\_size=28, n\_neighbors=54;; score=0.562 total time=0.0s  
[CV 4/5; 856/1980] END leaf\_size=28, n\_neighbors=64;; score=0.593 total time=0.0s  
[CV 5/5; 856/1980] START leaf\_size=28, n\_neighbors=64...  
[CV 4/5; 862/1980] START leaf\_size=28, n\_neighbors=70...  
[CV 1/5; 851/1980] END leaf\_size=28, n\_neighbors=59;; score=0.670 total time=0.0s  
[CV 2/5; 851/1980] START leaf\_size=28, n\_neighbors=59...  
[CV 5/5; 853/1980] END leaf\_size=28, n\_neighbors=61;; score=0.606 total time=0.0s  
[CV 1/5; 854/1980] START leaf\_size=28, n\_neighbors=62...  
[CV 3/5; 849/1980] END leaf\_size=28, n\_neighbors=57;; score=0.559 total time=0.0s  
[CV 2/5; 852/1980] END leaf\_size=28, n\_neighbors=60;; score=0.605 total time=0.0s  
[CV 4/5; 849/1980] START leaf\_size=28, n\_neighbors=57...  
[CV 3/5; 852/1980] START leaf\_size=28, n\_neighbors=60...  
[CV 2/5; 855/1980] END leaf\_size=28, n\_neighbors=63;; score=0.609 total time=0.0s  
[CV 3/5; 855/1980] START leaf\_size=28, n\_neighbors=63...  
[CV 2/5; 858/1980] END leaf\_size=28, n\_neighbors=66;; score=0.609 total time=0.0s  
[CV 3/5; 858/1980] START leaf\_size=28, n\_neighbors=66...  
[CV 3/5; 859/1980] END leaf\_size=28, n\_neighbors=67;; score=0.564 total time=0.0s  
[CV 4/5; 859/1980] START leaf\_size=28, n\_neighbors=67...  
[CV 1/5; 861/1980] END leaf\_size=28, n\_neighbors=69;; score=0.663 total time=0.0s  
[CV 2/5; 861/1980] START leaf\_size=28, n\_neighbors=69...  
[CV 5/5; 856/1980] END leaf\_size=28, n\_neighbors=64;; score=0.613 total time=0.0s

[CV 1/5; 857/1980] START leaf\_size=28, n\_neighbors=65...  
 [CV 1/5; 854/1980] END leaf\_size=28, n\_neighbors=62;; score=0.663 total time=0.0s  
 [CV 2/5; 854/1980] START leaf\_size=28, n\_neighbors=62...  
 [CV 3/5; 852/1980] END leaf\_size=28, n\_neighbors=60;; score=0.553 total time=0.0s  
 [CV 4/5; 852/1980] START leaf\_size=28, n\_neighbors=60...  
 [CV 2/5; 851/1980] END leaf\_size=28, n\_neighbors=59;; score=0.609 total time=0.0s  
 [CV 4/5; 862/1980] END leaf\_size=28, n\_neighbors=70;; score=0.589 total time=0.0s  
 [CV 5/5; 862/1980] START leaf\_size=28, n\_neighbors=70...  
 [CV 2/5; 864/1980] START leaf\_size=28, n\_neighbors=72...  
 [CV 4/5; 849/1980] END leaf\_size=28, n\_neighbors=57;; score=0.597 total time=0.0s  
 [CV 3/5; 855/1980] END leaf\_size=28, n\_neighbors=63;; score=0.562 total time=0.0s  
 [CV 4/5; 855/1980] START leaf\_size=28, n\_neighbors=63...  
 [CV 3/5; 858/1980] END leaf\_size=28, n\_neighbors=66;; score=0.566 total time=0.0s  
 [CV 4/5; 858/1980] START leaf\_size=28, n\_neighbors=66...  
 [CV 5/5; 865/1980] START leaf\_size=28, n\_neighbors=73...  
 [CV 4/5; 859/1980] END leaf\_size=28, n\_neighbors=67;; score=0.587 total time=0.0s  
 [CV 5/5; 859/1980] START leaf\_size=28, n\_neighbors=67...  
 [CV 2/5; 861/1980] END leaf\_size=28, n\_neighbors=69;; score=0.609 total time=0.0s  
 [CV 3/5; 861/1980] START leaf\_size=28, n\_neighbors=69...  
 [CV 2/5; 854/1980] END leaf\_size=28, n\_neighbors=62;; score=0.603 total time=0.0s  
 [CV 1/5; 857/1980] END leaf\_size=28, n\_neighbors=65;; score=0.663 total time= 0.0s  
  
 [CV 2/5; 857/1980] START leaf\_size=28, n\_neighbors=65...  
 [CV 3/5; 854/1980] START leaf\_size=28, n\_neighbors=62...  
 [CV 4/5; 852/1980] END leaf\_size=28, n\_neighbors=60;; score=0.602 total time=0.0s  
 [CV 5/5; 852/1980] START leaf\_size=28, n\_neighbors=60...  
 [CV 2/5; 864/1980] END leaf\_size=28, n\_neighbors=72;; score=0.607 total time=0.0s  
 [CV 3/5; 864/1980] START leaf\_size=28, n\_neighbors=72...  
 [CV 5/5; 862/1980] END leaf\_size=28, n\_neighbors=70;; score=0.606 total time=0.0s  
 [CV 1/5; 863/1980] START leaf\_size=28, n\_neighbors=71...  
 [CV 4/5; 858/1980] END leaf\_size=28, n\_neighbors=66;; score=0.574 total time=0.0s  
 [CV 5/5; 858/1980] START leaf\_size=28, n\_neighbors=66...  
 [CV 4/5; 855/1980] END leaf\_size=28, n\_neighbors=63;; score=0.604 total time=0.0s

[CV 5/5; 855/1980] START leaf\_size=28, n\_neighbors=63...  
 [CV 5/5; 859/1980] END leaf\_size=28, n\_neighbors=67;; score=0.613 total time=0.0s  
 [CV 1/5; 860/1980] START leaf\_size=28, n\_neighbors=68...  
 [CV 5/5; 865/1980] END leaf\_size=28, n\_neighbors=73;; score=0.628 total time=0.0s  
 [CV 1/5; 866/1980] START leaf\_size=28, n\_neighbors=74...  
 [CV 3/5; 861/1980] END leaf\_size=28, n\_neighbors=69;; score=0.568 total time=0.0s  
 [CV 4/5; 861/1980] START leaf\_size=28, n\_neighbors=69...  
 [CV 3/5; 854/1980] END leaf\_size=28, n\_neighbors=62;; score=0.555 total time=0.0s  
 [CV 2/5; 857/1980] END leaf\_size=28, n\_neighbors=65;; score=0.616 total time=0.0s  
 [CV 3/5; 857/1980] START leaf\_size=28, n\_neighbors=65...  
 [CV 3/5; 867/1980] START leaf\_size=28, n\_neighbors=75...  
 [CV 5/5; 852/1980] END leaf\_size=28, n\_neighbors=60;; score=0.604 total time=0.0s  
 [CV 1/5; 869/1980] START leaf\_size=28, n\_neighbors=77...  
 [CV 3/5; 864/1980] END leaf\_size=28, n\_neighbors=72;; score=0.562 total time=0.0s  
 [CV 4/5; 864/1980] START leaf\_size=28, n\_neighbors=72...  
 [CV 5/5; 858/1980] END leaf\_size=28, n\_neighbors=66;; score=0.613 total time=0.0s  
 [CV 1/5; 859/1980] START leaf\_size=28, n\_neighbors=67...  
 [CV 1/5; 863/1980] END leaf\_size=28, n\_neighbors=71;; score=0.670 total time=0.0s  
 [CV 2/5; 863/1980] START leaf\_size=28, n\_neighbors=71...  
 [CV 5/5; 855/1980] END leaf\_size=28, n\_neighbors=63;; score=0.615 total time=0.0s  
 [CV 1/5; 856/1980] START leaf\_size=28, n\_neighbors=64...  
 [CV 1/5; 860/1980] END leaf\_size=28, n\_neighbors=68;; score=0.667 total time=0.0s  
 [CV 2/5; 860/1980] START leaf\_size=28, n\_neighbors=68...  
 [CV 4/5; 861/1980] END leaf\_size=28, n\_neighbors=69;; score=0.582 total time=0.0s  
 [CV 5/5; 861/1980] START leaf\_size=28, n\_neighbors=69...  
 [CV 3/5; 867/1980] END leaf\_size=28, n\_neighbors=75;; score=0.555 total time=0.0s  
 [CV 4/5; 867/1980] START leaf\_size=28, n\_neighbors=75...  
 [CV 3/5; 857/1980] END leaf\_size=28, n\_neighbors=65;; score=0.566 total time=0.0s  
 [CV 4/5; 857/1980] START leaf\_size=28, n\_neighbors=65...  
 [CV 1/5; 869/1980] END leaf\_size=28, n\_neighbors=77;; score=0.667 total time=0.0s  
 [CV 2/5; 869/1980] START leaf\_size=28, n\_neighbors=77...  
 [CV 4/5; 864/1980] END leaf\_size=28, n\_neighbors=72;; score=0.593 total time=0.0s

[CV 5/5; 864/1980] START leaf\_size=28, n\_neighbors=72...  
 [CV 1/5; 866/1980] END leaf\_size=28, n\_neighbors=74;; score=0.661 total time=0.0s  
 [CV 2/5; 866/1980] START leaf\_size=28, n\_neighbors=74...  
 [CV 1/5; 859/1980] END leaf\_size=28, n\_neighbors=67;; score=0.663 total time=0.0s  
 [CV 2/5; 859/1980] START leaf\_size=28, n\_neighbors=67...  
 [CV 5/5; 861/1980] END leaf\_size=28, n\_neighbors=69;; score=0.621 total time=0.0s  
 [CV 1/5; 862/1980] START leaf\_size=28, n\_neighbors=70...  
 [CV 2/5; 860/1980] END leaf\_size=28, n\_neighbors=68;; score=0.609 total time=0.0s  
 [CV 3/5; 860/1980] START leaf\_size=28, n\_neighbors=68...  
 [CV 4/5; 867/1980] END leaf\_size=28, n\_neighbors=75;; score=0.591 total time=0.0s  
 [CV 5/5; 867/1980] START leaf\_size=28, n\_neighbors=75...  
 [CV 2/5; 863/1980] END leaf\_size=28, n\_neighbors=71;; score=0.616 total time=0.0s  
 [CV 3/5; 863/1980] START leaf\_size=28, n\_neighbors=71...  
 [CV 4/5; 857/1980] END leaf\_size=28, n\_neighbors=65;; score=0.591 total time=0.0s  
 [CV 4/5; 870/1980] START leaf\_size=28, n\_neighbors=78...  
 [CV 1/5; 856/1980] END leaf\_size=28, n\_neighbors=64;; score=0.663 total time=0.0s  
 [CV 5/5; 864/1980] END leaf\_size=28, n\_neighbors=72;; score=0.613 total time=0.0s  
 [CV 1/5; 865/1980] START leaf\_size=28, n\_neighbors=73...  
 [CV 2/5; 869/1980] END leaf\_size=28, n\_neighbors=77;; score=0.605 total time=0.0s  
 [CV 3/5; 869/1980] START leaf\_size=28, n\_neighbors=77...  
 [CV 2/5; 872/1980] START leaf\_size=28, n\_neighbors=80...  
 [CV 2/5; 859/1980] END leaf\_size=28, n\_neighbors=67;; score=0.611 total time=0.0s  
 [CV 5/5; 873/1980] START leaf\_size=28, n\_neighbors=81...  
 [CV 2/5; 866/1980] END leaf\_size=28, n\_neighbors=74;; score=0.607 total time=0.0s  
 [CV 3/5; 866/1980] START leaf\_size=28, n\_neighbors=74...  
 [CV 1/5; 862/1980] END leaf\_size=28, n\_neighbors=70;; score=0.663 total time=0.0s  
 [CV 2/5; 862/1980] START leaf\_size=28, n\_neighbors=70...  
 [CV 3/5; 860/1980] END leaf\_size=28, n\_neighbors=68;; score=0.566 total time=0.0s  
 [CV 4/5; 860/1980] START leaf\_size=28, n\_neighbors=68...  
 [CV 4/5; 870/1980] END leaf\_size=28, n\_neighbors=78;; score=0.571 total time=0.0s  
 [CV 5/5; 870/1980] START leaf\_size=28, n\_neighbors=78...  
 [CV 1/5; 865/1980] END leaf\_size=28, n\_neighbors=73;; score=0.663 total time=0.0s

[CV 2/5; 865/1980] START leaf\_size=28, n\_neighbors=73...  
 [CV 3/5; 869/1980] END leaf\_size=28, n\_neighbors=77;; score=0.562 total time=0.0s  
 [CV 4/5; 869/1980] START leaf\_size=28, n\_neighbors=77...  
 [CV 5/5; 867/1980] END leaf\_size=28, n\_neighbors=75;; score=0.632 total time=0.0s  
 [CV 1/5; 868/1980] START leaf\_size=28, n\_neighbors=76...  
 [CV 5/5; 873/1980] END leaf\_size=28, n\_neighbors=81;; score=0.626 total time=0.0s  
 [CV 1/5; 874/1980] START leaf\_size=28, n\_neighbors=82...  
 [CV 2/5; 872/1980] END leaf\_size=28, n\_neighbors=80;; score=0.594 total time=0.0s  
 [CV 3/5; 872/1980] START leaf\_size=28, n\_neighbors=80...  
 [CV 2/5; 862/1980] END leaf\_size=28, n\_neighbors=70;; score=0.607 total time=0.0s  
 [CV 3/5; 862/1980] START leaf\_size=28, n\_neighbors=70...  
 [CV 4/5; 860/1980] END leaf\_size=28, n\_neighbors=68;; score=0.576 total time=0.0s  
 [CV 5/5; 860/1980] START leaf\_size=28, n\_neighbors=68...  
 [CV 3/5; 866/1980] END leaf\_size=28, n\_neighbors=74;; score=0.557 total time=0.0s  
 [CV 4/5; 866/1980] START leaf\_size=28, n\_neighbors=74...  
 [CV 3/5; 863/1980] END leaf\_size=28, n\_neighbors=71;; score=0.562 total time=0.1s  
 [CV 4/5; 863/1980] START leaf\_size=28, n\_neighbors=71...  
 [CV 2/5; 865/1980] END leaf\_size=28, n\_neighbors=73;; score=0.605 total time=0.0s  
 [CV 3/5; 865/1980] START leaf\_size=28, n\_neighbors=73...  
 [CV 5/5; 870/1980] END leaf\_size=28, n\_neighbors=78;; score=0.628 total time=0.0s  
 [CV 1/5; 871/1980] START leaf\_size=28, n\_neighbors=79...  
 [CV 4/5; 869/1980] END leaf\_size=28, n\_neighbors=77;; score=0.580 total time=0.0s  
 [CV 5/5; 869/1980] START leaf\_size=28, n\_neighbors=77...  
 [CV 1/5; 868/1980] END leaf\_size=28, n\_neighbors=76;; score=0.667 total time=0.0s  
 [CV 2/5; 868/1980] START leaf\_size=28, n\_neighbors=76...  
 [CV 1/5; 874/1980] END leaf\_size=28, n\_neighbors=82;; score=0.659 total time=0.0s  
 [CV 2/5; 874/1980] START leaf\_size=28, n\_neighbors=82...  
 [CV 3/5; 862/1980] END leaf\_size=28, n\_neighbors=70;; score=0.559 total time=0.0s  
 [CV 5/5; 860/1980] END leaf\_size=28, n\_neighbors=68;; score=0.615 total time=0.0s  
 [CV 3/5; 875/1980] START leaf\_size=28, n\_neighbors=83...  
 [CV 4/5; 866/1980] END leaf\_size=28, n\_neighbors=74;; score=0.591 total time=0.0s  
 [CV 5/5; 866/1980] START leaf\_size=28, n\_neighbors=74...

[CV 1/5; 877/1980] START leaf\_size=28, n\_neighbors=85...  
 [CV 3/5; 872/1980] END leaf\_size=28, n\_neighbors=80;; score=0.564 total time=0.0s  
 [CV 4/5; 872/1980] START leaf\_size=28, n\_neighbors=80...  
 [CV 3/5; 865/1980] END leaf\_size=28, n\_neighbors=73;; score=0.566 total time=0.0s  
 [CV 4/5; 865/1980] START leaf\_size=28, n\_neighbors=73...  
 [CV 1/5; 871/1980] END leaf\_size=28, n\_neighbors=79;; score=0.659 total time=0.0s  
 [CV 2/5; 871/1980] START leaf\_size=28, n\_neighbors=79...  
 [CV 5/5; 869/1980] END leaf\_size=28, n\_neighbors=77;; score=0.617 total time=0.0s  
 [CV 1/5; 870/1980] START leaf\_size=28, n\_neighbors=78...  
 [CV 4/5; 863/1980] END leaf\_size=28, n\_neighbors=71;; score=0.587 total time=0.0s  
 [CV 5/5; 863/1980] START leaf\_size=28, n\_neighbors=71...  
 [CV 2/5; 874/1980] END leaf\_size=28, n\_neighbors=82;; score=0.600 total time=0.0s  
 [CV 3/5; 874/1980] START leaf\_size=28, n\_neighbors=82...  
 [CV 3/5; 875/1980] END leaf\_size=28, n\_neighbors=83;; score=0.564 total time=0.0s  
 [CV 4/5; 875/1980] START leaf\_size=28, n\_neighbors=83...  
 [CV 2/5; 868/1980] END leaf\_size=28, n\_neighbors=76;; score=0.603 total time=0.0s  
 [CV 3/5; 868/1980] START leaf\_size=28, n\_neighbors=76...  
 [CV 5/5; 866/1980] END leaf\_size=28, n\_neighbors=74;; score=0.623 total time=0.0s  
 [CV 1/5; 867/1980] START leaf\_size=28, n\_neighbors=75...  
 [CV 4/5; 865/1980] END leaf\_size=28, n\_neighbors=73;; score=0.591 total time=0.0s  
 [CV 1/5; 877/1980] END leaf\_size=28, n\_neighbors=85;; score=0.650 total time=0.0s  
 [CV 2/5; 877/1980] START leaf\_size=28, n\_neighbors=85...  
 [CV 4/5; 878/1980] START leaf\_size=28, n\_neighbors=86...  
 [CV 2/5; 871/1980] END leaf\_size=28, n\_neighbors=79;; score=0.598 total time=0.0s  
 [CV 3/5; 871/1980] START leaf\_size=28, n\_neighbors=79...  
 [CV 4/5; 872/1980] END leaf\_size=28, n\_neighbors=80;; score=0.584 total time=0.0s  
 [CV 5/5; 872/1980] START leaf\_size=28, n\_neighbors=80...  
 [CV 1/5; 870/1980] END leaf\_size=28, n\_neighbors=78;; score=0.659 total time=0.0s  
 [CV 2/5; 870/1980] START leaf\_size=28, n\_neighbors=78...  
 [CV 3/5; 874/1980] END leaf\_size=28, n\_neighbors=82;; score=0.566 total time=0.0s  
 [CV 4/5; 874/1980] START leaf\_size=28, n\_neighbors=82...  
 [CV 5/5; 863/1980] END leaf\_size=28, n\_neighbors=71;; score=0.613 total time=0.0s

[CV 1/5; 864/1980] START leaf\_size=28, n\_neighbors=72...  
 [CV 4/5; 875/1980] END leaf\_size=28, n\_neighbors=83;; score=0.584 total time=0.0s  
 [CV 5/5; 875/1980] START leaf\_size=28, n\_neighbors=83...  
 [CV 3/5; 868/1980] END leaf\_size=28, n\_neighbors=76;; score=0.557 total time=0.0s  
 [CV 4/5; 868/1980] START leaf\_size=28, n\_neighbors=76...  
 [CV 2/5; 877/1980] END leaf\_size=28, n\_neighbors=85;; score=0.600 total time=0.0s  
 [CV 3/5; 877/1980] START leaf\_size=28, n\_neighbors=85...  
 [CV 3/5; 871/1980] END leaf\_size=28, n\_neighbors=79;; score=0.557 total time=0.0s  
 [CV 4/5; 871/1980] START leaf\_size=28, n\_neighbors=79...  
 [CV 1/5; 867/1980] END leaf\_size=28, n\_neighbors=75;; score=0.667 total time=0.1s  
 [CV 2/5; 867/1980] START leaf\_size=28, n\_neighbors=75...  
 [CV 4/5; 878/1980] END leaf\_size=28, n\_neighbors=86;; score=0.580 total time=0.0s  
 [CV 5/5; 878/1980] START leaf\_size=28, n\_neighbors=86...  
 [CV 4/5; 874/1980] END leaf\_size=28, n\_neighbors=82;; score=0.587 total time=0.0s  
 [CV 5/5; 874/1980] START leaf\_size=28, n\_neighbors=82...  
 [CV 5/5; 872/1980] END leaf\_size=28, n\_neighbors=80;; score=0.628 total time=0.0s  
 [CV 1/5; 873/1980] START leaf\_size=28, n\_neighbors=81...  
 [CV 5/5; 875/1980] END leaf\_size=28, n\_neighbors=83;; score=0.619 total time=0.0s  
 [CV 1/5; 876/1980] START leaf\_size=28, n\_neighbors=84...  
 [CV 2/5; 870/1980] END leaf\_size=28, n\_neighbors=78;; score=0.603 total time=0.0s  
 [CV 3/5; 870/1980] START leaf\_size=28, n\_neighbors=78...  
 [CV 1/5; 864/1980] END leaf\_size=28, n\_neighbors=72;; score=0.663 total time=0.0s  
 [CV 3/5; 877/1980] END leaf\_size=28, n\_neighbors=85;; score=0.557 total time=0.0s  
 [CV 4/5; 877/1980] START leaf\_size=28, n\_neighbors=85...  
 [CV 2/5; 880/1980] START leaf\_size=28,  
 n\_neighbors=88...[CV 4/5; 871/1980] END leaf\_size=28,  
 n\_neighbors=79;; score=0.584 total time= 0.0s  
 [CV 5/5; 871/1980] START leaf\_size=28, n\_neighbors=79...  
  
 [CV 4/5; 868/1980] END leaf\_size=28, n\_neighbors=76;; score=0.578 total time=0.0s  
 [CV 5/5; 868/1980] START leaf\_size=28, n\_neighbors=76...  
 [CV 5/5; 878/1980] END leaf\_size=28, n\_neighbors=86;; score=0.623 total time=0.0s  
 [CV 1/5; 879/1980] START leaf\_size=28, n\_neighbors=87...  
 [CV 5/5; 874/1980] END leaf\_size=28, n\_neighbors=82;; score=0.630 total time=

0.0s  
 [CV 1/5; 875/1980] START leaf\_size=28, n\_neighbors=83...  
 [CV 2/5; 867/1980] END leaf\_size=28, n\_neighbors=75;; score=0.603 total time=  
 0.0s  
 [CV 1/5; 876/1980] END leaf\_size=28, n\_neighbors=84;; score=0.654 total time=  
 0.0s  
 [CV 2/5; 876/1980] START leaf\_size=28, n\_neighbors=84...  
 [CV 5/5; 881/1980] START leaf\_size=28, n\_neighbors=89...  
 [CV 3/5; 870/1980] END leaf\_size=28, n\_neighbors=78;; score=0.555 total time=  
 0.0s  
 [CV 3/5; 883/1980] START leaf\_size=28, n\_neighbors=91...  
 [CV 1/5; 873/1980] END leaf\_size=28, n\_neighbors=81;; score=0.659 total time=  
 0.0s  
 [CV 2/5; 873/1980] START leaf\_size=28, n\_neighbors=81...  
 [CV 4/5; 877/1980] END leaf\_size=28, n\_neighbors=85;; score=0.576 total time=  
 0.0s  
 [CV 5/5; 877/1980] START leaf\_size=28, n\_neighbors=85...  
 [CV 5/5; 871/1980] END leaf\_size=28, n\_neighbors=79;; score=0.619 total time=  
 0.0s  
 [CV 1/5; 872/1980] START leaf\_size=28, n\_neighbors=80...  
 [CV 1/5; 875/1980] END leaf\_size=28, n\_neighbors=83;; score=0.650 total time=  
 0.0s  
 [CV 2/5; 875/1980] START leaf\_size=28, n\_neighbors=83...  
 [CV 1/5; 879/1980] END leaf\_size=28, n\_neighbors=87;; score=0.650 total time=  
 0.0s  
 [CV 2/5; 879/1980] START leaf\_size=28, n\_neighbors=87...  
 [CV 5/5; 868/1980] END leaf\_size=28, n\_neighbors=76;; score=0.621 total time=  
 0.0s  
 [CV 1/5; 885/1980] START leaf\_size=28, n\_neighbors=93...  
 [CV 2/5; 880/1980] END leaf\_size=28, n\_neighbors=88;; score=0.600 total time=  
 0.1s  
 [CV 3/5; 880/1980] START leaf\_size=28, n\_neighbors=88...  
 [CV 2/5; 876/1980] END leaf\_size=28, n\_neighbors=84;; score=0.603 total time=  
 0.0s  
 [CV 3/5; 876/1980] START leaf\_size=28, n\_neighbors=84...  
 [CV 3/5; 883/1980] END leaf\_size=28, n\_neighbors=91;; score=0.564 total time=  
 0.0s  
 [CV 4/5; 883/1980] START leaf\_size=28, n\_neighbors=91...  
 [CV 5/5; 881/1980] END leaf\_size=28, n\_neighbors=89;; score=0.621 total time=  
 0.0s  
 [CV 1/5; 882/1980] START leaf\_size=28, n\_neighbors=90...  
 [CV 2/5; 873/1980] END leaf\_size=28, n\_neighbors=81;; score=0.596 total time=  
 0.0s  
 [CV 3/5; 873/1980] START leaf\_size=28, n\_neighbors=81...  
 [CV 5/5; 877/1980] END leaf\_size=28, n\_neighbors=85;; score=0.626 total time=  
 0.0s  
 [CV 1/5; 878/1980] START leaf\_size=28, n\_neighbors=86...  
 [CV 1/5; 872/1980] END leaf\_size=28, n\_neighbors=80;; score=0.659 total time=



0.0s  
 [CV 4/5; 886/1980] START leaf\_size=28, n\_neighbors=94...  
 [CV 2/5; 875/1980] END leaf\_size=28, n\_neighbors=83;; score=0.596 total time=  
 0.0s  
 [CV 2/5; 879/1980] END leaf\_size=28, n\_neighbors=87;; score=0.603 total time=  
 0.0s  
 [CV 3/5; 879/1980] START leaf\_size=28, n\_neighbors=87...  
 [CV 2/5; 888/1980] START leaf\_size=28, n\_neighbors=96...  
 [CV 3/5; 876/1980] END leaf\_size=28, n\_neighbors=84;; score=0.555 total time=  
 0.0s  
 [CV 4/5; 876/1980] START leaf\_size=28, n\_neighbors=84...  
 [CV 1/5; 885/1980] END leaf\_size=28, n\_neighbors=93;; score=0.646 total time=  
 0.0s  
 [CV 2/5; 885/1980] START leaf\_size=28, n\_neighbors=93...  
 [CV 4/5; 883/1980] END leaf\_size=28, n\_neighbors=91;; score=0.591 total time=  
 0.0s  
 [CV 5/5; 883/1980] START leaf\_size=28, n\_neighbors=91...  
 [CV 3/5; 880/1980] END leaf\_size=28, n\_neighbors=88;; score=0.562 total time=  
 0.0s  
 [CV 4/5; 880/1980] START leaf\_size=28, n\_neighbors=88...  
 [CV 1/5; 878/1980] END leaf\_size=28, n\_neighbors=86;; score=0.648 total time=  
 0.0s  
 [CV 2/5; 878/1980] START leaf\_size=28, n\_neighbors=86...  
 [CV 4/5; 886/1980] END leaf\_size=28, n\_neighbors=94;; score=0.582 total time=  
 0.0s  
 [CV 5/5; 886/1980] START leaf\_size=28, n\_neighbors=94...  
 [CV 3/5; 873/1980] END leaf\_size=28, n\_neighbors=81;; score=0.562 total time=  
 0.0s  
 [CV 4/5; 873/1980] START leaf\_size=28, n\_neighbors=81...  
 [CV 1/5; 882/1980] END leaf\_size=28, n\_neighbors=90;; score=0.650 total time=  
 0.0s  
 [CV 2/5; 882/1980] START leaf\_size=28, n\_neighbors=90...  
 [CV 3/5; 879/1980] END leaf\_size=28, n\_neighbors=87;; score=0.562 total time=  
 0.0s  
 [CV 4/5; 879/1980] START leaf\_size=28, n\_neighbors=87...  
 [CV 2/5; 888/1980] END leaf\_size=28, n\_neighbors=96;; score=0.598 total time=  
 0.0s  
 [CV 3/5; 888/1980] START leaf\_size=28, n\_neighbors=96...  
 [CV 4/5; 876/1980] END leaf\_size=28, n\_neighbors=84;; score=0.582 total time=  
 0.0s  
 [CV 5/5; 876/1980] START leaf\_size=28, n\_neighbors=84...  
 [CV 5/5; 883/1980] END leaf\_size=28, n\_neighbors=91;; score=0.623 total time=  
 0.0s  
 [CV 1/5; 884/1980] START leaf\_size=28, n\_neighbors=92...  
 [CV 4/5; 880/1980] END leaf\_size=28, n\_neighbors=88;; score=0.578 total time=  
 0.0s  
 [CV 5/5; 880/1980] START leaf\_size=28, n\_neighbors=88...  
 [CV 5/5; 886/1980] END leaf\_size=28, n\_neighbors=94;; score=0.608 total time=

```

0.0s
[CV 1/5; 887/1980] START leaf_size=28, n_neighbors=95...
[CV 2/5; 885/1980] END leaf_size=28, n_neighbors=93;; score=0.603 total time=
0.0s[CV 2/5; 878/1980] END leaf_size=28, n_neighbors=86;; score=0.598 total
time= 0.0s

[CV 3/5; 878/1980] START leaf_size=28, n_neighbors=86...
[CV 3/5; 885/1980] START leaf_size=28, n_neighbors=93...
[CV 4/5; 873/1980] END leaf_size=28, n_neighbors=81;; score=0.587 total time=
0.0s
[CV 5/5; 889/1980] START leaf_size=28, n_neighbors=97...
[CV 2/5; 882/1980] END leaf_size=28, n_neighbors=90;; score=0.600 total time=
0.0s
[CV 3/5; 882/1980] START leaf_size=28, n_neighbors=90...
[CV 4/5; 879/1980] END leaf_size=28, n_neighbors=87;; score=0.584 total time=
0.0s
[CV 5/5; 879/1980] START leaf_size=28, n_neighbors=87...
[CV 3/5; 888/1980] END leaf_size=28, n_neighbors=96;; score=0.564 total time=
0.0s
[CV 4/5; 888/1980] START leaf_size=28, n_neighbors=96...
[CV 5/5; 876/1980] END leaf_size=28, n_neighbors=84;; score=0.626 total time=
0.0s
[CV 3/5; 891/1980] START leaf_size=28, n_neighbors=99...
[CV 1/5; 884/1980] END leaf_size=28, n_neighbors=92;; score=0.646 total time=
0.0s
[CV 2/5; 884/1980] START leaf_size=28, n_neighbors=92...
[CV 5/5; 880/1980] END leaf_size=28, n_neighbors=88;; score=0.617 total time=
0.0s
[CV 1/5; 881/1980] START leaf_size=28, n_neighbors=89...
[CV 3/5; 885/1980] END leaf_size=28, n_neighbors=93;; score=0.564 total time=
0.0s
[CV 3/5; 878/1980] END leaf_size=28, n_neighbors=86;; score=0.559 total time=
0.0s
[CV 4/5; 885/1980] START leaf_size=28, n_neighbors=93...
[CV 1/5; 887/1980] END leaf_size=28, n_neighbors=95;; score=0.644 total time=
0.0s
[CV 2/5; 887/1980] START leaf_size=28, n_neighbors=95...
[CV 5/5; 889/1980] END leaf_size=28, n_neighbors=97;; score=0.602 total time=
0.0s
[CV 1/5; 890/1980] START leaf_size=28, n_neighbors=98...
[CV 1/5; 893/1980] START leaf_size=29, n_neighbors=2...
[CV 3/5; 882/1980] END leaf_size=28, n_neighbors=90;; score=0.564 total time=
0.0s
[CV 4/5; 882/1980] START leaf_size=28, n_neighbors=90...
[CV 5/5; 879/1980] END leaf_size=28, n_neighbors=87;; score=0.619 total time=
0.0s
[CV 1/5; 880/1980] START leaf_size=28, n_neighbors=88...
[CV 4/5; 888/1980] END leaf_size=28, n_neighbors=96;; score=0.582 total time=

```

```

0.0s
[CV 5/5; 888/1980] START leaf_size=28, n_neighbors=96...
[CV 3/5; 891/1980] END leaf_size=28, n_neighbors=99;; score=0.566 total time=
0.0s
[CV 4/5; 891/1980] START leaf_size=28, n_neighbors=99...
[CV 2/5; 884/1980] END leaf_size=28, n_neighbors=92;; score=0.598 total time=
0.0s
[CV 3/5; 884/1980] START leaf_size=28, n_neighbors=92...
[CV 1/5; 893/1980] END leaf_size=29, n_neighbors=2;; score=0.566 total time=
0.0s
[CV 2/5; 893/1980] START leaf_size=29, n_neighbors=2...
[CV 4/5; 885/1980] END leaf_size=28, n_neighbors=93;; score=0.587 total time=
0.0s
[CV 5/5; 885/1980] START leaf_size=28, n_neighbors=93...
[CV 2/5; 887/1980] END leaf_size=28, n_neighbors=95;; score=0.603 total time=
0.0s
[CV 3/5; 887/1980] START leaf_size=28, n_neighbors=95...
[CV 1/5; 881/1980] END leaf_size=28, n_neighbors=89;; score=0.646 total time=
0.0s
[CV 2/5; 881/1980] START leaf_size=28, n_neighbors=89...
[CV 1/5; 880/1980] END leaf_size=28, n_neighbors=88;; score=0.652 total time=
0.0s
[CV 4/5; 882/1980] END leaf_size=28, n_neighbors=90;; score=0.580 total time=
0.0s
[CV 5/5; 882/1980] START leaf_size=28, n_neighbors=90...
[CV 4/5; 894/1980] START leaf_size=29, n_neighbors=3...
[CV 1/5; 890/1980] END leaf_size=28, n_neighbors=98;; score=0.635 total time=
0.0s
[CV 2/5; 890/1980] START leaf_size=28, n_neighbors=98...
[CV 2/5; 893/1980] END leaf_size=29, n_neighbors=2;; score=0.579 total time=
0.0s
[CV 3/5; 893/1980] START leaf_size=29, n_neighbors=2...
[CV 4/5; 891/1980] END leaf_size=28, n_neighbors=99;; score=0.589 total time=
0.0s
[CV 5/5; 891/1980] START leaf_size=28, n_neighbors=99...
[CV 5/5; 888/1980] END leaf_size=28, n_neighbors=96;; score=0.604 total time=
0.0s
[CV 1/5; 889/1980] START leaf_size=28, n_neighbors=97...
[CV 4/5; 894/1980] END leaf_size=29, n_neighbors=3;; score=0.584 total time=
0.0s
[CV 5/5; 894/1980] START leaf_size=29, n_neighbors=3...
[CV 5/5; 885/1980] END leaf_size=28, n_neighbors=93;; score=0.617 total time=
0.0s[CV 3/5; 884/1980] END leaf_size=28, n_neighbors=92;; score=0.564 total
time= 0.0s

[CV 4/5; 884/1980] START leaf_size=28,
n_neighbors=92...[CV 1/5; 886/1980] START leaf_size=28,
n_neighbors=94...

```

[CV 3/5; 887/1980] END leaf\_size=28, n\_neighbors=95;; score=0.566 total time=0.0s  
 [CV 4/5; 887/1980] START leaf\_size=28, n\_neighbors=95...  
 [CV 3/5; 893/1980] END leaf\_size=29, n\_neighbors=2;; score=0.512 total time=0.0s  
 [CV 2/5; 881/1980] END leaf\_size=28, n\_neighbors=89;; score=0.600 total time=0.0s  
 [CV 4/5; 893/1980] START leaf\_size=29, n\_neighbors=2...  
 [CV 3/5; 881/1980] START leaf\_size=28, n\_neighbors=89...  
 [CV 5/5; 882/1980] END leaf\_size=28, n\_neighbors=90;; score=0.617 total time=0.0s  
 [CV 1/5; 883/1980] START leaf\_size=28, n\_neighbors=91...  
 [CV 5/5; 894/1980] END leaf\_size=29, n\_neighbors=3;; score=0.593 total time=0.0s  
 [CV 1/5; 895/1980] START leaf\_size=29, n\_neighbors=4...  
 [CV 2/5; 890/1980] END leaf\_size=28, n\_neighbors=98;; score=0.596 total time=0.0s  
 [CV 3/5; 890/1980] START leaf\_size=28, n\_neighbors=98...  
 [CV 4/5; 893/1980] END leaf\_size=29, n\_neighbors=2;; score=0.571 total time=0.0s  
 [CV 5/5; 893/1980] START leaf\_size=29, n\_neighbors=2...  
 [CV 5/5; 891/1980] END leaf\_size=28, n\_neighbors=99;; score=0.610 total time=0.0s  
 [CV 1/5; 892/1980] START leaf\_size=29, n\_neighbors=1...  
 [CV 1/5; 889/1980] END leaf\_size=28, n\_neighbors=97;; score=0.641 total time=0.0s  
 [CV 2/5; 889/1980] START leaf\_size=28, n\_neighbors=97...  
 [CV 1/5; 886/1980] END leaf\_size=28, n\_neighbors=94;; score=0.644 total time=0.0s  
 [CV 2/5; 886/1980] START leaf\_size=28, n\_neighbors=94...  
 [CV 4/5; 884/1980] END leaf\_size=28, n\_neighbors=92;; score=0.582 total time=0.0s  
 [CV 5/5; 884/1980] START leaf\_size=28, n\_neighbors=92...  
 [CV 4/5; 887/1980] END leaf\_size=28, n\_neighbors=95;; score=0.584 total time=0.0s  
 [CV 5/5; 887/1980] START leaf\_size=28, n\_neighbors=95...  
 [CV 1/5; 895/1980] END leaf\_size=29, n\_neighbors=4;; score=0.562 total time=0.0s  
 [CV 2/5; 895/1980] START leaf\_size=29, n\_neighbors=4...  
 [CV 3/5; 881/1980] END leaf\_size=28, n\_neighbors=89;; score=0.564 total time=0.0s  
 [CV 4/5; 881/1980] START leaf\_size=28, n\_neighbors=89...  
 [CV 5/5; 893/1980] END leaf\_size=29, n\_neighbors=2;; score=0.574 total time=0.0s  
 [CV 1/5; 894/1980] START leaf\_size=29, n\_neighbors=3...  
 [CV 1/5; 892/1980] END leaf\_size=29, n\_neighbors=1;; score=0.516 total time=0.0s

[CV 2/5; 892/1980] START leaf\_size=29, n\_neighbors=1...  
 [CV 1/5; 883/1980] END leaf\_size=28, n\_neighbors=91;; score=0.648 total time=0.0s  
 [CV 2/5; 883/1980] START leaf\_size=28, n\_neighbors=91...  
 [CV 3/5; 890/1980] END leaf\_size=28, n\_neighbors=98;; score=0.562 total time=0.0s  
 [CV 4/5; 890/1980] START leaf\_size=28, n\_neighbors=98...  
 [CV 1/5; 894/1980] END leaf\_size=29, n\_neighbors=3;; score=0.557 total time=0.0s  
 [CV 2/5; 894/1980] START leaf\_size=29, n\_neighbors=3...  
 [CV 2/5; 895/1980] END leaf\_size=29, n\_neighbors=4;; score=0.581 total time=0.0s  
 [CV 3/5; 895/1980] START leaf\_size=29, n\_neighbors=4...  
 [CV 2/5; 892/1980] END leaf\_size=29, n\_neighbors=1;; score=0.568 total time=0.0s  
 [CV 3/5; 892/1980] START leaf\_size=29, n\_neighbors=1...  
 [CV 5/5; 884/1980] END leaf\_size=28, n\_neighbors=92;; score=0.621 total time=0.0s  
 [CV 5/5; 887/1980] END leaf\_size=28, n\_neighbors=95;; score=0.608 total time=0.0s  
 [CV 1/5; 888/1980] START leaf\_size=28, n\_neighbors=96...  
 [CV 2/5; 896/1980] START leaf\_size=29, n\_neighbors=5...  
 [CV 4/5; 881/1980] END leaf\_size=28, n\_neighbors=89;; score=0.591 total time=0.0s  
 [CV 2/5; 894/1980] END leaf\_size=29, n\_neighbors=3;; score=0.579 total time=0.0s  
 [CV 3/5; 894/1980] START leaf\_size=29, n\_neighbors=3...  
 [CV 5/5; 897/1980] START leaf\_size=29, n\_neighbors=6...[CV 2/5; 883/1980] END leaf\_size=28, n\_neighbors=91;; score=0.605 total time= 0.0s  
  
 [CV 2/5; 889/1980] END leaf\_size=28, n\_neighbors=97;; score=0.594 total time=0.1s  
 [CV 3/5; 889/1980] START leaf\_size=28, n\_neighbors=97...  
 [CV 3/5; 899/1980] START leaf\_size=29, n\_neighbors=8...  
 [CV 3/5; 895/1980] END leaf\_size=29, n\_neighbors=4;; score=0.544 total time=0.0s  
 [CV 4/5; 895/1980] START leaf\_size=29, n\_neighbors=4...  
 [CV 2/5; 886/1980] END leaf\_size=28, n\_neighbors=94;; score=0.600 total time=0.1s  
 [CV 3/5; 886/1980] START leaf\_size=28, n\_neighbors=94...  
 [CV 3/5; 892/1980] END leaf\_size=29, n\_neighbors=1;; score=0.490 total time=0.0s  
 [CV 4/5; 892/1980] START leaf\_size=29, n\_neighbors=1...  
 [CV 4/5; 890/1980] END leaf\_size=28, n\_neighbors=98;; score=0.584 total time=0.0s  
 [CV 5/5; 890/1980] START leaf\_size=28, n\_neighbors=98...  
 [CV 2/5; 896/1980] END leaf\_size=29, n\_neighbors=5;; score=0.562 total time=

```

0.0s
[CV 3/5; 896/1980] START leaf_size=29, n_neighbors=5...
[CV 3/5; 894/1980] END leaf_size=29, n_neighbors=3;, score=0.484 total time=
0.0s
[CV 3/5; 899/1980] END leaf_size=29, n_neighbors=8;, score=0.551 total time=
0.0s
[CV 4/5; 899/1980] START leaf_size=29, n_neighbors=8...
[CV 1/5; 901/1980] START leaf_size=29, n_neighbors=10...
[CV 4/5; 892/1980] END leaf_size=29, n_neighbors=1;, score=0.539 total time=
0.0s
[CV 5/5; 892/1980] START leaf_size=29, n_neighbors=1...
[CV 5/5; 897/1980] END leaf_size=29, n_neighbors=6;, score=0.582 total time=
0.0s
[CV 1/5; 898/1980] START leaf_size=29, n_neighbors=7...
[CV 4/5; 895/1980] END leaf_size=29, n_neighbors=4;, score=0.580 total time=
0.0s
[CV 5/5; 895/1980] START leaf_size=29, n_neighbors=4...
[CV 1/5; 888/1980] END leaf_size=28, n_neighbors=96;, score=0.637 total time=
0.0s
[CV 3/5; 896/1980] END leaf_size=29, n_neighbors=5;, score=0.536 total time=
0.0s
[CV 4/5; 896/1980] START leaf_size=29, n_neighbors=5...
[CV 4/5; 902/1980] START leaf_size=29, n_neighbors=11...
[CV 3/5; 886/1980] END leaf_size=28, n_neighbors=94;, score=0.562 total time=
0.0s
[CV 3/5; 889/1980] END leaf_size=28, n_neighbors=97;, score=0.564 total time=
0.0s
[CV 4/5; 889/1980] START leaf_size=28, n_neighbors=97...
[CV 2/5; 904/1980] START leaf_size=29, n_neighbors=13...
[CV 4/5; 899/1980] END leaf_size=29, n_neighbors=8;, score=0.617 total time=
0.0s
[CV 5/5; 899/1980] START leaf_size=29, n_neighbors=8...
[CV 1/5; 901/1980] END leaf_size=29, n_neighbors=10;, score=0.611 total time=
0.0s
[CV 2/5; 901/1980] START leaf_size=29, n_neighbors=10...
[CV 5/5; 892/1980] END leaf_size=29, n_neighbors=1;, score=0.567 total time=
0.0s
[CV 5/5; 905/1980] START leaf_size=29, n_neighbors=14...
[CV 5/5; 895/1980] END leaf_size=29, n_neighbors=4;, score=0.593 total time=
0.0s
[CV 1/5; 896/1980] START leaf_size=29, n_neighbors=5...
[CV 5/5; 890/1980] END leaf_size=28, n_neighbors=98;, score=0.606 total time=
0.0s
[CV 1/5; 891/1980] START leaf_size=28, n_neighbors=99...
[CV 1/5; 898/1980] END leaf_size=29, n_neighbors=7;, score=0.568 total time=
0.0s
[CV 2/5; 898/1980] START leaf_size=29, n_neighbors=7...
[CV 4/5; 896/1980] END leaf_size=29, n_neighbors=5;, score=0.589 total time=

```

0.0s  
[CV 5/5; 896/1980] START leaf\_size=29, n\_neighbors=5...  
[CV 4/5; 902/1980] END leaf\_size=29, n\_neighbors=11;; score=0.589 total time=  
0.0s  
[CV 5/5; 902/1980] START leaf\_size=29, n\_neighbors=11...  
[CV 2/5; 904/1980] END leaf\_size=29, n\_neighbors=13;; score=0.570 total time=  
0.0s  
[CV 3/5; 904/1980] START leaf\_size=29, n\_neighbors=13...  
[CV 5/5; 899/1980] END leaf\_size=29, n\_neighbors=8;; score=0.608 total time=  
0.0s  
[CV 1/5; 900/1980] START leaf\_size=29, n\_neighbors=9...  
[CV 2/5; 901/1980] END leaf\_size=29, n\_neighbors=10;; score=0.568 total time=  
0.0s  
[CV 3/5; 901/1980] START leaf\_size=29, n\_neighbors=10...  
[CV 1/5; 896/1980] END leaf\_size=29, n\_neighbors=5;; score=0.546 total time=  
0.0s  
[CV 5/5; 905/1980] END leaf\_size=29, n\_neighbors=14;; score=0.606 total time=  
0.0s  
[CV 1/5; 906/1980] START leaf\_size=29, n\_neighbors=15...  
[CV 3/5; 907/1980] START leaf\_size=29, n\_neighbors=16...  
[CV 4/5; 889/1980] END leaf\_size=28, n\_neighbors=97;; score=0.580 total time=  
0.0s  
[CV 2/5; 898/1980] END leaf\_size=29, n\_neighbors=7;; score=0.559 total time=  
0.0s  
[CV 3/5; 898/1980] START leaf\_size=29, n\_neighbors=7...  
[CV 5/5; 896/1980] END leaf\_size=29, n\_neighbors=5;; score=0.591 total time=  
0.0s  
[CV 1/5; 897/1980] START leaf\_size=29, n\_neighbors=6...  
[CV 1/5; 909/1980] START leaf\_size=29, n\_neighbors=18...  
[CV 3/5; 904/1980] END leaf\_size=29, n\_neighbors=13;; score=0.553 total time=  
0.0s  
[CV 4/5; 904/1980] START leaf\_size=29, n\_neighbors=13...  
[CV 1/5; 900/1980] END leaf\_size=29, n\_neighbors=9;; score=0.592 total time=  
0.0s  
[CV 2/5; 900/1980] START leaf\_size=29, n\_neighbors=9...  
[CV 3/5; 901/1980] END leaf\_size=29, n\_neighbors=10;; score=0.549 total time=  
0.0s  
[CV 4/5; 901/1980] START leaf\_size=29, n\_neighbors=10...  
[CV 1/5; 891/1980] END leaf\_size=28, n\_neighbors=99;; score=0.641 total time=  
0.0s  
[CV 2/5; 891/1980] START leaf\_size=28, n\_neighbors=99...  
[CV 3/5; 898/1980] END leaf\_size=29, n\_neighbors=7;; score=0.551 total time=  
0.0s  
[CV 4/5; 898/1980] START leaf\_size=29, n\_neighbors=7...  
[CV 1/5; 906/1980] END leaf\_size=29, n\_neighbors=15;; score=0.637 total time=  
0.0s  
[CV 2/5; 906/1980] START leaf\_size=29, n\_neighbors=15...  
[CV 3/5; 907/1980] END leaf\_size=29, n\_neighbors=16;; score=0.557 total time=

0.0s  
 [CV 1/5; 897/1980] END leaf\_size=29, n\_neighbors=6;; score=0.570 total time=0.0s  
 [CV 4/5; 907/1980] START leaf\_size=29, n\_neighbors=16...  
 [CV 2/5; 897/1980] START leaf\_size=29, n\_neighbors=6...  
 [CV 5/5; 902/1980] END leaf\_size=29, n\_neighbors=11;; score=0.606 total time=0.0s  
 [CV 1/5; 903/1980] START leaf\_size=29, n\_neighbors=12...  
 [CV 1/5; 909/1980] END leaf\_size=29, n\_neighbors=18;; score=0.635 total time=0.0s  
 [CV 2/5; 909/1980] START leaf\_size=29, n\_neighbors=18...  
 [CV 2/5; 900/1980] END leaf\_size=29, n\_neighbors=9;; score=0.570 total time=0.0s  
 [CV 3/5; 900/1980] START leaf\_size=29, n\_neighbors=9...  
 [CV 4/5; 901/1980] END leaf\_size=29, n\_neighbors=10;; score=0.597 total time=0.0s  
 [CV 5/5; 901/1980] START leaf\_size=29, n\_neighbors=10...  
 [CV 4/5; 898/1980] END leaf\_size=29, n\_neighbors=7;; score=0.584 total time=0.0s  
 [CV 5/5; 898/1980] START leaf\_size=29, n\_neighbors=7...  
 [CV 4/5; 904/1980] END leaf\_size=29, n\_neighbors=13;; score=0.574 total time=0.0s  
 [CV 5/5; 904/1980] START leaf\_size=29, n\_neighbors=13...  
 [CV 2/5; 897/1980] END leaf\_size=29, n\_neighbors=6;; score=0.546 total time=0.0s  
 [CV 3/5; 897/1980] START leaf\_size=29, n\_neighbors=6...  
 [CV 2/5; 906/1980] END leaf\_size=29, n\_neighbors=15;; score=0.570 total time=0.0s  
 [CV 3/5; 906/1980] START leaf\_size=29, n\_neighbors=15...  
 [CV 4/5; 907/1980] END leaf\_size=29, n\_neighbors=16;; score=0.584 total time=0.0s  
 [CV 5/5; 907/1980] START leaf\_size=29, n\_neighbors=16...  
 [CV 2/5; 891/1980] END leaf\_size=28, n\_neighbors=99;; score=0.598 total time=0.0s  
 [CV 2/5; 909/1980] END leaf\_size=29, n\_neighbors=18;; score=0.590 total time=0.0s  
 [CV 3/5; 909/1980] START leaf\_size=29, n\_neighbors=18...  
 [CV 4/5; 910/1980] START leaf\_size=29, n\_neighbors=19...  
 [CV 5/5; 901/1980] END leaf\_size=29, n\_neighbors=10;; score=0.615 total time=0.0s  
 [CV 1/5; 902/1980] START leaf\_size=29, n\_neighbors=11...  
 [CV 3/5; 900/1980] END leaf\_size=29, n\_neighbors=9;; score=0.559 total time=0.0s  
 [CV 4/5; 900/1980] START leaf\_size=29, n\_neighbors=9...  
 [CV 1/5; 903/1980] END leaf\_size=29, n\_neighbors=12;; score=0.648 total time=0.0s  
 [CV 2/5; 903/1980] START leaf\_size=29, n\_neighbors=12...  
 [CV 5/5; 898/1980] END leaf\_size=29, n\_neighbors=7;; score=0.613 total time=



0.0s  
 [CV 1/5; 899/1980] START leaf\_size=29, n\_neighbors=8...  
 [CV 3/5; 897/1980] END leaf\_size=29, n\_neighbors=6;;, score=0.555 total time=  
 0.0s  
 [CV 4/5; 897/1980] START leaf\_size=29, n\_neighbors=6...  
 [CV 3/5; 906/1980] END leaf\_size=29, n\_neighbors=15;;, score=0.557 total time=  
 0.0s  
 [CV 4/5; 906/1980] START leaf\_size=29, n\_neighbors=15...  
 [CV 5/5; 907/1980] END leaf\_size=29, n\_neighbors=16;;, score=0.621 total time=  
 0.0s  
 [CV 1/5; 908/1980] START leaf\_size=29, n\_neighbors=17...  
 [CV 3/5; 909/1980] END leaf\_size=29, n\_neighbors=18;;, score=0.555 total time=  
 0.0s  
 [CV 4/5; 909/1980] START leaf\_size=29, n\_neighbors=18...  
 [CV 4/5; 910/1980] END leaf\_size=29, n\_neighbors=19;;, score=0.589 total time=  
 0.0s  
 [CV 5/5; 910/1980] START leaf\_size=29, n\_neighbors=19...  
 [CV 1/5; 902/1980] END leaf\_size=29, n\_neighbors=11;;, score=0.624 total time=  
 0.0s  
 [CV 2/5; 902/1980] START leaf\_size=29, n\_neighbors=11...  
 [CV 4/5; 900/1980] END leaf\_size=29, n\_neighbors=9;;, score=0.589 total time=  
 0.0s [CV 1/5; 899/1980] END leaf\_size=29, n\_neighbors=8;;, score=0.568 total time=  
 0.0s  
 [CV 2/5; 899/1980] START leaf\_size=29, n\_neighbors=8...  
  
 [CV 5/5; 900/1980] START leaf\_size=29, n\_neighbors=9...  
 [CV 4/5; 897/1980] END leaf\_size=29, n\_neighbors=6;;, score=0.578 total time=  
 0.0s  
 [CV 5/5; 904/1980] END leaf\_size=29, n\_neighbors=13;;, score=0.591 total time=  
 0.0s  
 [CV 2/5; 912/1980] START leaf\_size=29, n\_neighbors=21...  
 [CV 1/5; 905/1980] START leaf\_size=29, n\_neighbors=14...  
 [CV 4/5; 906/1980] END leaf\_size=29, n\_neighbors=15;;, score=0.584 total time=  
 0.0s  
 [CV 5/5; 906/1980] START leaf\_size=29, n\_neighbors=15...  
 [CV 1/5; 908/1980] END leaf\_size=29, n\_neighbors=17;;, score=0.631 total time=  
 0.0s  
 [CV 2/5; 908/1980] START leaf\_size=29, n\_neighbors=17...  
 [CV 4/5; 909/1980] END leaf\_size=29, n\_neighbors=18;;, score=0.600 total time=  
 0.0s  
 [CV 5/5; 909/1980] START leaf\_size=29, n\_neighbors=18...  
 [CV 2/5; 902/1980] END leaf\_size=29, n\_neighbors=11;;, score=0.579 total time=  
 0.0s  
 [CV 3/5; 902/1980] START leaf\_size=29, n\_neighbors=11...  
 [CV 5/5; 910/1980] END leaf\_size=29, n\_neighbors=19;;, score=0.626 total time=  
 0.0s  
 [CV 1/5; 911/1980] START leaf\_size=29, n\_neighbors=20...  
 [CV 2/5; 899/1980] END leaf\_size=29, n\_neighbors=8;;, score=0.551 total time=

0.0s  
 [CV 1/5; 905/1980] END leaf\_size=29, n\_neighbors=14;; score=0.644 total time=0.0s  
 [CV 5/5; 900/1980] END leaf\_size=29, n\_neighbors=9;; score=0.613 total time=0.0s  
 [CV 2/5; 905/1980] START leaf\_size=29, n\_neighbors=14...  
 [CV 5/5; 913/1980] START leaf\_size=29, n\_neighbors=22...  
 [CV 2/5; 912/1980] END leaf\_size=29, n\_neighbors=21;; score=0.581 total time=0.0s  
 [CV 3/5; 912/1980] START leaf\_size=29, n\_neighbors=21...  
 [CV 5/5; 906/1980] END leaf\_size=29, n\_neighbors=15;; score=0.615 total time=0.0s  
 [CV 1/5; 907/1980] START leaf\_size=29, n\_neighbors=16...  
 [CV 3/5; 915/1980] START leaf\_size=29, n\_neighbors=24...  
 [CV 3/5; 902/1980] END leaf\_size=29, n\_neighbors=11;; score=0.551 total time=0.0s  
 [CV 5/5; 909/1980] END leaf\_size=29, n\_neighbors=18;; score=0.617 total time=0.0s  
 [CV 1/5; 910/1980] START leaf\_size=29, n\_neighbors=19...  
 [CV 1/5; 911/1980] END leaf\_size=29, n\_neighbors=20;; score=0.618 total time=0.0s  
 [CV 2/5; 911/1980] START leaf\_size=29, n\_neighbors=20...  
 [CV 1/5; 917/1980] START leaf\_size=29, n\_neighbors=26...  
 [CV 2/5; 903/1980] END leaf\_size=29, n\_neighbors=12;; score=0.581 total time=0.1s  
 [CV 2/5; 905/1980] END leaf\_size=29, n\_neighbors=14;; score=0.572 total time= 0.0s  
 [CV 3/5; 905/1980] START leaf\_size=29, n\_neighbors=14...  
  
 [CV 3/5; 903/1980] START leaf\_size=29, n\_neighbors=12...  
 [CV 1/5; 907/1980] END leaf\_size=29, n\_neighbors=16;; score=0.637 total time=0.0s  
 [CV 2/5; 907/1980] START leaf\_size=29, n\_neighbors=16...  
 [CV 5/5; 913/1980] END leaf\_size=29, n\_neighbors=22;; score=0.628 total time=0.0s  
 [CV 1/5; 914/1980] START leaf\_size=29, n\_neighbors=23...  
 [CV 3/5; 912/1980] END leaf\_size=29, n\_neighbors=21;; score=0.559 total time=0.0s  
 [CV 4/5; 912/1980] START leaf\_size=29, n\_neighbors=21...  
 [CV 3/5; 915/1980] END leaf\_size=29, n\_neighbors=24;; score=0.564 total time=0.0s  
 [CV 4/5; 915/1980] START leaf\_size=29, n\_neighbors=24...  
 [CV 1/5; 910/1980] END leaf\_size=29, n\_neighbors=19;; score=0.637 total time=0.0s  
 [CV 2/5; 910/1980] START leaf\_size=29, n\_neighbors=19...  
 [CV 2/5; 908/1980] END leaf\_size=29, n\_neighbors=17;; score=0.568 total time=0.1s  
 [CV 3/5; 908/1980] START leaf\_size=29, n\_neighbors=17...  
 [CV 2/5; 911/1980] END leaf\_size=29, n\_neighbors=20;; score=0.583 total time=

0.0s  
[CV 3/5; 911/1980] START leaf\_size=29, n\_neighbors=20...  
[CV 1/5; 917/1980] END leaf\_size=29, n\_neighbors=26;; score=0.639 total time=0.0s  
[CV 2/5; 917/1980] START leaf\_size=29, n\_neighbors=26...  
[CV 3/5; 905/1980] END leaf\_size=29, n\_neighbors=14;; score=0.544 total time=0.0s  
[CV 4/5; 905/1980] START leaf\_size=29, n\_neighbors=14...  
[CV 2/5; 907/1980] END leaf\_size=29, n\_neighbors=16;; score=0.575 total time=0.0s  
[CV 4/5; 918/1980] START leaf\_size=29, n\_neighbors=27...  
[CV 4/5; 912/1980] END leaf\_size=29, n\_neighbors=21;; score=0.606 total time=0.0s  
[CV 5/5; 912/1980] START leaf\_size=29, n\_neighbors=21...  
[CV 1/5; 914/1980] END leaf\_size=29, n\_neighbors=23;; score=0.646 total time=0.0s  
[CV 2/5; 914/1980] START leaf\_size=29, n\_neighbors=23...  
[CV 4/5; 915/1980] END leaf\_size=29, n\_neighbors=24;; score=0.597 total time=0.0s  
[CV 5/5; 915/1980] START leaf\_size=29, n\_neighbors=24...  
[CV 2/5; 917/1980] END leaf\_size=29, n\_neighbors=26;; score=0.600 total time=0.0s  
[CV 3/5; 917/1980] START leaf\_size=29, n\_neighbors=26...  
[CV 3/5; 911/1980] END leaf\_size=29, n\_neighbors=20;; score=0.553 total time=0.0s  
[CV 4/5; 911/1980] START leaf\_size=29, n\_neighbors=20...  
[CV 4/5; 905/1980] END leaf\_size=29, n\_neighbors=14;; score=0.584 total time=0.0s  
[CV 2/5; 920/1980] START leaf\_size=29, n\_neighbors=29...  
[CV 4/5; 918/1980] END leaf\_size=29, n\_neighbors=27;; score=0.593 total time=0.0s  
[CV 5/5; 918/1980] START leaf\_size=29, n\_neighbors=27...  
[CV 2/5; 910/1980] END leaf\_size=29, n\_neighbors=19;; score=0.583 total time=0.0s  
[CV 3/5; 910/1980] START leaf\_size=29, n\_neighbors=19...  
[CV 3/5; 908/1980] END leaf\_size=29, n\_neighbors=17;; score=0.564 total time=0.0s  
[CV 4/5; 908/1980] START leaf\_size=29, n\_neighbors=17...  
[CV 3/5; 903/1980] END leaf\_size=29, n\_neighbors=12;; score=0.546 total time=0.1s  
[CV 4/5; 903/1980] START leaf\_size=29, n\_neighbors=12...  
[CV 5/5; 912/1980] END leaf\_size=29, n\_neighbors=21;; score=0.621 total time=0.0s  
[CV 1/5; 913/1980] START leaf\_size=29, n\_neighbors=22...  
[CV 2/5; 914/1980] END leaf\_size=29, n\_neighbors=23;; score=0.583 total time=0.0s  
[CV 3/5; 914/1980] START leaf\_size=29, n\_neighbors=23...  
[CV 5/5; 915/1980] END leaf\_size=29, n\_neighbors=24;; score=0.647 total time=

0.0s  
 [CV 1/5; 916/1980] START leaf\_size=29, n\_neighbors=25...  
 [CV 3/5; 917/1980] END leaf\_size=29, n\_neighbors=26;;, score=0.564 total time=  
 0.0s  
 [CV 4/5; 917/1980] START leaf\_size=29, n\_neighbors=26...  
 [CV 5/5; 918/1980] END leaf\_size=29, n\_neighbors=27;;, score=0.630 total time=  
 0.0s  
 [CV 1/5; 919/1980] START leaf\_size=29, n\_neighbors=28...  
 [CV 2/5; 920/1980] END leaf\_size=29, n\_neighbors=29;;, score=0.600 total time=  
 0.0s  
 [CV 3/5; 920/1980] START leaf\_size=29, n\_neighbors=29...  
 [CV 3/5; 910/1980] END leaf\_size=29, n\_neighbors=19;;, score=0.551 total time=  
 0.0s  
 [CV 4/5; 911/1980] END leaf\_size=29, n\_neighbors=20;;, score=0.600 total time=  
 0.0s  
 [CV 5/5; 911/1980] START leaf\_size=29, n\_neighbors=20...  
 [CV 1/5; 913/1980] END leaf\_size=29, n\_neighbors=22;;, score=0.622 total time=  
 0.0s  
 [CV 2/5; 913/1980] START leaf\_size=29, n\_neighbors=22...  
 [CV 4/5; 908/1980] END leaf\_size=29, n\_neighbors=17;;, score=0.580 total time=  
 0.0s  
 [CV 5/5; 908/1980] START leaf\_size=29, n\_neighbors=17...  
 [CV 4/5; 903/1980] END leaf\_size=29, n\_neighbors=12;;, score=0.576 total time=  
 0.0s  
 [CV 5/5; 903/1980] START leaf\_size=29,  
 n\_neighbors=12...[CV 3/5; 914/1980] END leaf\_size=29,  
 n\_neighbors=23;;, score=0.557 total time= 0.0s  
  
 [CV 5/5; 921/1980] START leaf\_size=29, n\_neighbors=30...  
 [CV 4/5; 914/1980] START leaf\_size=29, n\_neighbors=23...  
 [CV 1/5; 916/1980] END leaf\_size=29, n\_neighbors=25;;, score=0.646 total time=  
 0.0s  
 [CV 2/5; 916/1980] START leaf\_size=29, n\_neighbors=25...  
 [CV 4/5; 917/1980] END leaf\_size=29, n\_neighbors=26;;, score=0.593 total time=  
 0.0s  
 [CV 5/5; 917/1980] START leaf\_size=29, n\_neighbors=26...  
 [CV 3/5; 920/1980] END leaf\_size=29, n\_neighbors=29;;, score=0.577 total time=  
 0.0s  
 [CV 4/5; 920/1980] START leaf\_size=29, n\_neighbors=29...  
 [CV 1/5; 919/1980] END leaf\_size=29, n\_neighbors=28;;, score=0.650 total time=  
 0.0s  
 [CV 2/5; 919/1980] START leaf\_size=29, n\_neighbors=28...  
 [CV 2/5; 913/1980] END leaf\_size=29, n\_neighbors=22;;, score=0.587 total time=  
 0.0s  
 [CV 3/5; 913/1980] START leaf\_size=29, n\_neighbors=22...  
 [CV 5/5; 911/1980] END leaf\_size=29, n\_neighbors=20;;, score=0.632 total time=  
 0.0s  
 [CV 1/5; 912/1980] START leaf\_size=29, n\_neighbors=21...

[CV 4/5; 914/1980] END leaf\_size=29, n\_neighbors=23;; score=0.600 total time=0.0s  
 [CV 5/5; 914/1980] START leaf\_size=29, n\_neighbors=23...  
 [CV 5/5; 917/1980] END leaf\_size=29, n\_neighbors=26;; score=0.628 total time=0.0s  
 [CV 1/5; 918/1980] START leaf\_size=29, n\_neighbors=27...  
 [CV 2/5; 916/1980] END leaf\_size=29, n\_neighbors=25;; score=0.598 total time=0.0s  
 [CV 3/5; 916/1980] START leaf\_size=29, n\_neighbors=25...  
 [CV 2/5; 919/1980] END leaf\_size=29, n\_neighbors=28;; score=0.598 total time=0.0s  
 [CV 3/5; 919/1980] START leaf\_size=29, n\_neighbors=28...  
 [CV 4/5; 920/1980] END leaf\_size=29, n\_neighbors=29;; score=0.600 total time=0.0s  
 [CV 5/5; 920/1980] START leaf\_size=29, n\_neighbors=29...  
 [CV 3/5; 913/1980] END leaf\_size=29, n\_neighbors=22;; score=0.555 total time=0.0s  
 [CV 4/5; 913/1980] START leaf\_size=29, n\_neighbors=22...  
 [CV 1/5; 912/1980] END leaf\_size=29, n\_neighbors=21;; score=0.626 total time=0.0s  
 [CV 5/5; 908/1980] END leaf\_size=29, n\_neighbors=17;; score=0.610 total time=0.1s  
 [CV 5/5; 914/1980] END leaf\_size=29, n\_neighbors=23;; score=0.643 total time=0.0s  
 [CV 1/5; 915/1980] START leaf\_size=29, n\_neighbors=24...  
 [CV 5/5; 903/1980] END leaf\_size=29, n\_neighbors=12;; score=0.613 total time=0.1s  
 [CV 1/5; 904/1980] START leaf\_size=29, n\_neighbors=13...  
 [CV 5/5; 921/1980] END leaf\_size=29, n\_neighbors=30;; score=0.632 total time=0.1s  
 [CV 1/5; 922/1980] START leaf\_size=29, n\_neighbors=31...  
 [CV 1/5; 918/1980] END leaf\_size=29, n\_neighbors=27;; score=0.650 total time=0.0s  
 [CV 2/5; 918/1980] START leaf\_size=29, n\_neighbors=27...  
 [CV 3/5; 919/1980] END leaf\_size=29, n\_neighbors=28;; score=0.568 total time=0.0s  
 [CV 5/5; 920/1980] END leaf\_size=29, n\_neighbors=29;; score=0.639 total time= 0.0s  
  
 [CV 1/5; 921/1980] START leaf\_size=29, n\_neighbors=30...  
 [CV 4/5; 919/1980] START leaf\_size=29, n\_neighbors=28...  
 [CV 3/5; 923/1980] START leaf\_size=29, n\_neighbors=32...  
 [CV 3/5; 916/1980] END leaf\_size=29, n\_neighbors=25;; score=0.557 total time=0.0s  
 [CV 4/5; 916/1980] START leaf\_size=29, n\_neighbors=25...  
 [CV 1/5; 925/1980] START leaf\_size=29, n\_neighbors=34...  
 [CV 4/5; 913/1980] END leaf\_size=29, n\_neighbors=22;; score=0.600 total time=0.0s  
 [CV 4/5; 926/1980] START leaf\_size=29, n\_neighbors=35...

[CV 1/5; 904/1980] END leaf\_size=29, n\_neighbors=13;; score=0.633 total time=0.0s  
 [CV 1/5; 915/1980] END leaf\_size=29, n\_neighbors=24;; score=0.646 total time=0.0s  
 [CV 2/5; 915/1980] START leaf\_size=29, n\_neighbors=24...  
 [CV 2/5; 928/1980] START leaf\_size=29, n\_neighbors=37...  
 [CV 2/5; 918/1980] END leaf\_size=29, n\_neighbors=27;; score=0.594 total time=0.0s  
 [CV 3/5; 918/1980] START leaf\_size=29, n\_neighbors=27...  
 [CV 1/5; 922/1980] END leaf\_size=29, n\_neighbors=31;; score=0.644 total time=0.0s  
 [CV 2/5; 922/1980] START leaf\_size=29, n\_neighbors=31...  
 [CV 4/5; 919/1980] END leaf\_size=29, n\_neighbors=28;; score=0.597 total time=0.0s  
 [CV 5/5; 919/1980] START leaf\_size=29, n\_neighbors=28...  
 [CV 1/5; 921/1980] END leaf\_size=29, n\_neighbors=30;; score=0.639 total time=0.0s  
 [CV 2/5; 921/1980] START leaf\_size=29, n\_neighbors=30...  
 [CV 4/5; 916/1980] END leaf\_size=29, n\_neighbors=25;; score=0.587 total time=0.0s  
 [CV 5/5; 916/1980] START leaf\_size=29, n\_neighbors=25...  
 [CV 1/5; 925/1980] END leaf\_size=29, n\_neighbors=34;; score=0.644 total time=0.0s  
 [CV 3/5; 923/1980] END leaf\_size=29, n\_neighbors=32;; score=0.577 total time=0.0s  
 [CV 4/5; 923/1980] START leaf\_size=29, n\_neighbors=32...  
 [CV 2/5; 925/1980] START leaf\_size=29, n\_neighbors=34...  
 [CV 4/5; 926/1980] END leaf\_size=29, n\_neighbors=35;; score=0.604 total time=0.0s  
 [CV 5/5; 926/1980] START leaf\_size=29, n\_neighbors=35...  
 [CV 2/5; 915/1980] END leaf\_size=29, n\_neighbors=24;; score=0.596 total time=0.0s  
 [CV 5/5; 919/1980] END leaf\_size=29, n\_neighbors=28;; score=0.641 total time=0.0s  
 [CV 1/5; 920/1980] START leaf\_size=29, n\_neighbors=29...  
 [CV 3/5; 918/1980] END leaf\_size=29, n\_neighbors=27;; score=0.568 total time=0.0s  
 [CV 5/5; 929/1980] START leaf\_size=29, n\_neighbors=38...  
 [CV 2/5; 928/1980] END leaf\_size=29, n\_neighbors=37;; score=0.607 total time=0.0s  
 [CV 2/5; 921/1980] END leaf\_size=29, n\_neighbors=30;; score=0.607 total time=0.0s  
 [CV 3/5; 928/1980] START leaf\_size=29, n\_neighbors=37...  
 [CV 3/5; 931/1980] START leaf\_size=29, n\_neighbors=40...  
 [CV 2/5; 922/1980] END leaf\_size=29, n\_neighbors=31;; score=0.603 total time=0.0s  
 [CV 3/5; 922/1980] START leaf\_size=29, n\_neighbors=31...

[CV 3/5; 921/1980] START leaf\_size=29, n\_neighbors=30...  
 [CV 5/5; 916/1980] END leaf\_size=29, n\_neighbors=25;; score=0.647 total time=0.0s  
 [CV 4/5; 923/1980] END leaf\_size=29, n\_neighbors=32;; score=0.593 total time=0.0s  
 [CV 5/5; 923/1980] START leaf\_size=29, n\_neighbors=32...  
 [CV 1/5; 933/1980] START leaf\_size=29, n\_neighbors=42...  
 [CV 2/5; 925/1980] END leaf\_size=29, n\_neighbors=34;; score=0.600 total time=0.0s  
 [CV 3/5; 925/1980] START leaf\_size=29, n\_neighbors=34...  
 [CV 5/5; 926/1980] END leaf\_size=29, n\_neighbors=35;; score=0.639 total time=0.0s  
 [CV 1/5; 927/1980] START leaf\_size=29, n\_neighbors=36...  
 [CV 1/5; 920/1980] END leaf\_size=29, n\_neighbors=29;; score=0.646 total time=0.0s  
 [CV 4/5; 934/1980] START leaf\_size=29, n\_neighbors=43...  
 [CV 3/5; 921/1980] END leaf\_size=29, n\_neighbors=30;; score=0.579 total time=0.0s  
 [CV 4/5; 921/1980] START leaf\_size=29, n\_neighbors=30...  
 [CV 3/5; 931/1980] END leaf\_size=29, n\_neighbors=40;; score=0.572 total time=0.0s  
 [CV 4/5; 931/1980] START leaf\_size=29, n\_neighbors=40...  
 [CV 3/5; 928/1980] END leaf\_size=29, n\_neighbors=37;; score=0.568 total time=0.0s  
 [CV 4/5; 928/1980] START leaf\_size=29, n\_neighbors=37...  
 [CV 3/5; 922/1980] END leaf\_size=29, n\_neighbors=31;; score=0.570 total time=0.0s  
 [CV 4/5; 922/1980] START leaf\_size=29, n\_neighbors=31...  
 [CV 5/5; 929/1980] END leaf\_size=29, n\_neighbors=38;; score=0.634 total time=0.0s  
 [CV 1/5; 930/1980] START leaf\_size=29, n\_neighbors=39...  
 [CV 3/5; 925/1980] END leaf\_size=29, n\_neighbors=34;; score=0.577 total time=0.0s  
 [CV 4/5; 925/1980] START leaf\_size=29, n\_neighbors=34...  
 [CV 5/5; 923/1980] END leaf\_size=29, n\_neighbors=32;; score=0.628 total time=0.0s  
 [CV 1/5; 924/1980] START leaf\_size=29, n\_neighbors=33...  
 [CV 1/5; 927/1980] END leaf\_size=29, n\_neighbors=36;; score=0.644 total time=0.0s  
 [CV 2/5; 927/1980] START leaf\_size=29, n\_neighbors=36...  
 [CV 4/5; 934/1980] END leaf\_size=29, n\_neighbors=43;; score=0.600 total time=0.0s  
 [CV 5/5; 934/1980] START leaf\_size=29, n\_neighbors=43...  
 [CV 1/5; 933/1980] END leaf\_size=29, n\_neighbors=42;; score=0.667 total time=0.0s  
 [CV 2/5; 933/1980] START leaf\_size=29, n\_neighbors=42...  
 [CV 4/5; 921/1980] END leaf\_size=29, n\_neighbors=30;; score=0.595 total time=0.0s

[CV 2/5; 936/1980] START leaf\_size=29, n\_neighbors=45...  
 [CV 4/5; 931/1980] END leaf\_size=29, n\_neighbors=40;; score=0.595 total time=0.0s  
 [CV 5/5; 931/1980] START leaf\_size=29, n\_neighbors=40...  
 [CV 4/5; 922/1980] END leaf\_size=29, n\_neighbors=31;; score=0.595 total time=0.0s  
 [CV 5/5; 922/1980] START leaf\_size=29, n\_neighbors=31...  
 [CV 4/5; 928/1980] END leaf\_size=29, n\_neighbors=37;; score=0.610 total time=0.0s  
 [CV 5/5; 928/1980] START leaf\_size=29, n\_neighbors=37...  
 [CV 1/5; 930/1980] END leaf\_size=29, n\_neighbors=39;; score=0.654 total time=0.0s  
 [CV 2/5; 930/1980] START leaf\_size=29, n\_neighbors=39...  
 [CV 4/5; 925/1980] END leaf\_size=29, n\_neighbors=34;; score=0.597 total time=0.0s  
 [CV 5/5; 925/1980] START leaf\_size=29, n\_neighbors=34...  
 [CV 5/5; 934/1980] END leaf\_size=29, n\_neighbors=43;; score=0.615 total time=0.0s  
 [CV 1/5; 935/1980] START leaf\_size=29, n\_neighbors=44...  
 [CV 2/5; 927/1980] END leaf\_size=29, n\_neighbors=36;; score=0.616 total time=0.0s  
 [CV 3/5; 927/1980] START leaf\_size=29, n\_neighbors=36...  
 [CV 1/5; 924/1980] END leaf\_size=29, n\_neighbors=33;; score=0.646 total time=0.0s  
 [CV 2/5; 924/1980] START leaf\_size=29, n\_neighbors=33...  
 [CV 5/5; 931/1980] END leaf\_size=29, n\_neighbors=40;; score=0.617 total time=0.0s  
 [CV 1/5; 932/1980] START leaf\_size=29, n\_neighbors=41...  
 [CV 5/5; 922/1980] END leaf\_size=29, n\_neighbors=31;; score=0.634 total time=0.0s  
 [CV 1/5; 923/1980] START leaf\_size=29, n\_neighbors=32...  
 [CV 2/5; 936/1980] END leaf\_size=29, n\_neighbors=45;; score=0.611 total time=0.0s  
 [CV 2/5; 933/1980] END leaf\_size=29, n\_neighbors=42;; score=0.618 total time=0.0s  
 [CV 3/5; 933/1980] START leaf\_size=29, n\_neighbors=42...  
 [CV 5/5; 928/1980] END leaf\_size=29, n\_neighbors=37;; score=0.628 total time=0.0s  
 [CV 1/5; 929/1980] START leaf\_size=29, n\_neighbors=38...  
  
 [CV 3/5; 936/1980] START leaf\_size=29, n\_neighbors=45...  
 [CV 5/5; 925/1980] END leaf\_size=29, n\_neighbors=34;; score=0.634 total time=0.0s  
 [CV 1/5; 926/1980] START leaf\_size=29, n\_neighbors=35...  
 [CV 2/5; 930/1980] END leaf\_size=29, n\_neighbors=39;; score=0.609 total time=0.0s  
 [CV 3/5; 930/1980] START leaf\_size=29, n\_neighbors=39...  
 [CV 1/5; 935/1980] END leaf\_size=29, n\_neighbors=44;; score=0.667 total time=0.0s



[CV 2/5; 935/1980] START leaf\_size=29, n\_neighbors=44...  
 [CV 3/5; 927/1980] END leaf\_size=29, n\_neighbors=36;; score=0.566 total time=0.0s  
 [CV 4/5; 927/1980] START leaf\_size=29, n\_neighbors=36...  
 [CV 2/5; 924/1980] END leaf\_size=29, n\_neighbors=33;; score=0.607 total time=0.0s  
 [CV 1/5; 932/1980] END leaf\_size=29, n\_neighbors=41;; score=0.665 total time=0.0s  
 [CV 3/5; 924/1980] START leaf\_size=29, n\_neighbors=33...  
 [CV 2/5; 932/1980] START leaf\_size=29, n\_neighbors=41...  
 [CV 1/5; 923/1980] END leaf\_size=29, n\_neighbors=32;; score=0.639 total time=0.0s  
 [CV 2/5; 923/1980] START leaf\_size=29, n\_neighbors=32...  
 [CV 1/5; 929/1980] END leaf\_size=29, n\_neighbors=38;; score=0.652 total time=0.0s  
 [CV 2/5; 929/1980] START leaf\_size=29, n\_neighbors=38...  
 [CV 3/5; 930/1980] END leaf\_size=29, n\_neighbors=39;; score=0.575 total time=0.0s  
 [CV 1/5; 926/1980] END leaf\_size=29, n\_neighbors=35;; score=0.650 total time=0.0s  
 [CV 4/5; 930/1980] START leaf\_size=29, n\_neighbors=39...  
  
 [CV 2/5; 926/1980] START leaf\_size=29, n\_neighbors=35...  
 [CV 2/5; 935/1980] END leaf\_size=29, n\_neighbors=44;; score=0.613 total time=0.0s  
 [CV 3/5; 936/1980] END leaf\_size=29, n\_neighbors=45;; score=0.575 total time=0.0s  
 [CV 3/5; 935/1980] START leaf\_size=29, n\_neighbors=44...  
 [CV 4/5; 936/1980] START leaf\_size=29, n\_neighbors=45...  
 [CV 4/5; 927/1980] END leaf\_size=29, n\_neighbors=36;; score=0.600 total time=0.0s  
 [CV 5/5; 927/1980] START leaf\_size=29, n\_neighbors=36...  
 [CV 3/5; 933/1980] END leaf\_size=29, n\_neighbors=42;; score=0.564 total time=0.0s  
 [CV 4/5; 933/1980] START leaf\_size=29, n\_neighbors=42...  
 [CV 2/5; 932/1980] END leaf\_size=29, n\_neighbors=41;; score=0.618 total time=0.0s  
 [CV 3/5; 932/1980] START leaf\_size=29, n\_neighbors=41...  
 [CV 3/5; 924/1980] END leaf\_size=29, n\_neighbors=33;; score=0.570 total time=0.0s  
 [CV 4/5; 924/1980] START leaf\_size=29, n\_neighbors=33...  
 [CV 2/5; 923/1980] END leaf\_size=29, n\_neighbors=32;; score=0.605 total time=0.0s  
 [CV 5/5; 937/1980] START leaf\_size=29, n\_neighbors=46...  
 [CV 3/5; 935/1980] END leaf\_size=29, n\_neighbors=44;; score=0.570 total time=0.0s  
 [CV 4/5; 935/1980] START leaf\_size=29, n\_neighbors=44...  
 [CV 2/5; 929/1980] END leaf\_size=29, n\_neighbors=38;; score=0.613 total time=

0.0s  
 [CV 3/5; 929/1980] START leaf\_size=29, n\_neighbors=38...  
 [CV 5/5; 927/1980] END leaf\_size=29, n\_neighbors=36;; score=0.628 total time=  
 0.0s  
 [CV 1/5; 928/1980] START leaf\_size=29, n\_neighbors=37...  
 [CV 4/5; 930/1980] END leaf\_size=29, n\_neighbors=39;; score=0.602 total time=  
 0.0s  
 [CV 5/5; 930/1980] START leaf\_size=29, n\_neighbors=39...  
 [CV 4/5; 936/1980] END leaf\_size=29, n\_neighbors=45;; score=0.600 total time=  
 0.0s  
 [CV 5/5; 936/1980] START leaf\_size=29, n\_neighbors=45...  
 [CV 2/5; 926/1980] END leaf\_size=29, n\_neighbors=35;; score=0.607 total time=  
 0.0s  
 [CV 3/5; 926/1980] START leaf\_size=29, n\_neighbors=35...  
 [CV 3/5; 932/1980] END leaf\_size=29, n\_neighbors=41;; score=0.568 total time=  
 0.0s  
 [CV 4/5; 932/1980] START leaf\_size=29, n\_neighbors=41...  
 [CV 4/5; 933/1980] END leaf\_size=29, n\_neighbors=42;; score=0.608 total time=  
 0.0s  
 [CV 5/5; 933/1980] START leaf\_size=29, n\_neighbors=42...  
 [CV 4/5; 935/1980] END leaf\_size=29, n\_neighbors=44;; score=0.597 total time=  
 0.0s  
 [CV 5/5; 935/1980] START leaf\_size=29, n\_neighbors=44...  
 [CV 4/5; 924/1980] END leaf\_size=29, n\_neighbors=33;; score=0.597 total time=  
 0.0s  
 [CV 5/5; 924/1980] START leaf\_size=29, n\_neighbors=33...  
 [CV 1/5; 928/1980] END leaf\_size=29, n\_neighbors=37;; score=0.657 total time=  
 0.0s  
 [CV 3/5; 929/1980] END leaf\_size=29, n\_neighbors=38;; score=0.566 total time=  
 0.0s  
 [CV 5/5; 937/1980] END leaf\_size=29, n\_neighbors=46;; score=0.619 total time=  
 0.0s  
 [CV 4/5; 929/1980] START leaf\_size=29, n\_neighbors=38...  
 [CV 1/5; 938/1980] START leaf\_size=29, n\_neighbors=47...  
 [CV 3/5; 939/1980] START leaf\_size=29, n\_neighbors=48...  
 [CV 5/5; 930/1980] END leaf\_size=29, n\_neighbors=39;; score=0.636 total time=  
 0.0s  
 [CV 1/5; 931/1980] START leaf\_size=29, n\_neighbors=40...  
 [CV 5/5; 936/1980] END leaf\_size=29, n\_neighbors=45;; score=0.619 total time=  
 0.0s  
 [CV 1/5; 937/1980] START leaf\_size=29, n\_neighbors=46...  
 [CV 3/5; 926/1980] END leaf\_size=29, n\_neighbors=35;; score=0.572 total time=  
 0.0s  
 [CV 4/5; 932/1980] END leaf\_size=29, n\_neighbors=41;; score=0.610 total time=  
 0.0s  
 [CV 5/5; 932/1980] START leaf\_size=29, n\_neighbors=41...  
 [CV 5/5; 933/1980] END leaf\_size=29, n\_neighbors=42;; score=0.621 total time=  
 0.0s

[CV 1/5; 934/1980] START leaf\_size=29, n\_neighbors=43...  
 [CV 1/5; 941/1980] START leaf\_size=29, n\_neighbors=50...  
 [CV 5/5; 935/1980] END leaf\_size=29, n\_neighbors=44;; score=0.615 total time=0.0s  
 [CV 1/5; 936/1980] START leaf\_size=29, n\_neighbors=45...  
 [CV 5/5; 924/1980] END leaf\_size=29, n\_neighbors=33;; score=0.630 total time=0.0s  
 [CV 4/5; 929/1980] END leaf\_size=29, n\_neighbors=38;; score=0.602 total time=0.0s  
 [CV 4/5; 942/1980] START leaf\_size=29, n\_neighbors=51...  
 [CV 3/5; 939/1980] END leaf\_size=29, n\_neighbors=48;; score=0.562 total time=0.0s  
 [CV 4/5; 939/1980] START leaf\_size=29, n\_neighbors=48...  
 [CV 1/5; 938/1980] END leaf\_size=29, n\_neighbors=47;; score=0.676 total time=0.0s  
 [CV 2/5; 938/1980] START leaf\_size=29, n\_neighbors=47...  
 [CV 2/5; 944/1980] START leaf\_size=29, n\_neighbors=53...  
 [CV 1/5; 937/1980] END leaf\_size=29, n\_neighbors=46;; score=0.672 total time=0.0s  
 [CV 2/5; 937/1980] START leaf\_size=29, n\_neighbors=46...  
 [CV 5/5; 932/1980] END leaf\_size=29, n\_neighbors=41;; score=0.619 total time=0.0s  
 [CV 1/5; 931/1980] END leaf\_size=29, n\_neighbors=40;; score=0.661 total time=0.0s  
 [CV 2/5; 931/1980] START leaf\_size=29, n\_neighbors=40...  
 [CV 5/5; 945/1980] START leaf\_size=29, n\_neighbors=54...  
 [CV 1/5; 941/1980] END leaf\_size=29, n\_neighbors=50;; score=0.678 total time=0.0s  
 [CV 2/5; 941/1980] START leaf\_size=29, n\_neighbors=50...  
 [CV 1/5; 936/1980] END leaf\_size=29, n\_neighbors=45;; score=0.678 total time=0.0s  
 [CV 1/5; 934/1980] END leaf\_size=29, n\_neighbors=43;; score=0.674 total time=0.0s  
 [CV 2/5; 934/1980] START leaf\_size=29, n\_neighbors=43...  
 [CV 3/5; 947/1980] START leaf\_size=29, n\_neighbors=56...  
 [CV 4/5; 939/1980] END leaf\_size=29, n\_neighbors=48;; score=0.589 total time=0.0s  
 [CV 5/5; 939/1980] START leaf\_size=29, n\_neighbors=48...  
 [CV 2/5; 938/1980] END leaf\_size=29, n\_neighbors=47;; score=0.611 total time=0.0s  
 [CV 3/5; 938/1980] START leaf\_size=29, n\_neighbors=47...  
 [CV 2/5; 937/1980] END leaf\_size=29, n\_neighbors=46;; score=0.616 total time=0.0s  
 [CV 3/5; 937/1980] START leaf\_size=29, n\_neighbors=46...  
 [CV 4/5; 942/1980] END leaf\_size=29, n\_neighbors=51;; score=0.602 total time=0.0s  
 [CV 5/5; 942/1980] START leaf\_size=29, n\_neighbors=51...  
 [CV 2/5; 944/1980] END leaf\_size=29, n\_neighbors=53;; score=0.611 total time=

0.0s  
 [CV 3/5; 944/1980] START leaf\_size=29, n\_neighbors=53...  
 [CV 5/5; 945/1980] END leaf\_size=29, n\_neighbors=54;; score=0.608 total time=  
 0.0s  
 [CV 1/5; 946/1980] START leaf\_size=29, n\_neighbors=55...  
 [CV 2/5; 931/1980] END leaf\_size=29, n\_neighbors=40;; score=0.611 total time=  
 0.0s  
 [CV 2/5; 941/1980] END leaf\_size=29, n\_neighbors=50;; score=0.603 total time=  
 0.0s  
 [CV 3/5; 941/1980] START leaf\_size=29, n\_neighbors=50...  
 [CV 1/5; 949/1980] START leaf\_size=29, n\_neighbors=58...  
 [CV 3/5; 947/1980] END leaf\_size=29, n\_neighbors=56;; score=0.551 total time=  
 0.0s  
 [CV 4/5; 947/1980] START leaf\_size=29, n\_neighbors=56...  
 [CV 2/5; 934/1980] END leaf\_size=29, n\_neighbors=43;; score=0.616 total time=  
 0.0s  
 [CV 3/5; 934/1980] START leaf\_size=29, n\_neighbors=43...  
 [CV 5/5; 939/1980] END leaf\_size=29, n\_neighbors=48;; score=0.630 total time=  
 0.0s  
 [CV 1/5; 940/1980] START leaf\_size=29, n\_neighbors=49...  
 [CV 3/5; 937/1980] END leaf\_size=29, n\_neighbors=46;; score=0.572 total time=  
 0.0s  
 [CV 4/5; 937/1980] START leaf\_size=29, n\_neighbors=46...  
 [CV 3/5; 938/1980] END leaf\_size=29, n\_neighbors=47;; score=0.572 total time=  
 0.0s  
 [CV 4/5; 938/1980] START leaf\_size=29, n\_neighbors=47...  
 [CV 5/5; 942/1980] END leaf\_size=29, n\_neighbors=51;; score=0.621 total time=  
 0.0s  
 [CV 1/5; 943/1980] START leaf\_size=29, n\_neighbors=52...  
 [CV 1/5; 946/1980] END leaf\_size=29, n\_neighbors=55;; score=0.667 total time=  
 0.0s  
 [CV 3/5; 944/1980] END leaf\_size=29, n\_neighbors=53;; score=0.572 total time=  
 0.0s  
 [CV 2/5; 946/1980] START leaf\_size=29, n\_neighbors=55...  
 [CV 4/5; 944/1980] START leaf\_size=29, n\_neighbors=53...  
 [CV 3/5; 941/1980] END leaf\_size=29, n\_neighbors=50;; score=0.557 total time=  
 0.0s  
 [CV 4/5; 941/1980] START leaf\_size=29, n\_neighbors=50...  
 [CV 4/5; 947/1980] END leaf\_size=29, n\_neighbors=56;; score=0.591 total time=  
 0.0s  
 [CV 5/5; 947/1980] START leaf\_size=29, n\_neighbors=56...  
 [CV 4/5; 937/1980] END leaf\_size=29, n\_neighbors=46;; score=0.597 total time=  
 0.0s  
 [CV 3/5; 934/1980] END leaf\_size=29, n\_neighbors=43;; score=0.566 total time=  
 0.0s  
 [CV 1/5; 949/1980] END leaf\_size=29, n\_neighbors=58;; score=0.665 total time=  
 0.0s  
 [CV 4/5; 950/1980] START leaf\_size=29, n\_neighbors=59...

[CV 1/5; 940/1980] END leaf\_size=29, n\_neighbors=49;; score=0.676 total time=0.0s  
 [CV 2/5; 940/1980] START leaf\_size=29, n\_neighbors=49...  
 [CV 2/5; 949/1980] START leaf\_size=29, n\_neighbors=58...  
 [CV 4/5; 938/1980] END leaf\_size=29, n\_neighbors=47;; score=0.589 total time=0.0s  
 [CV 5/5; 938/1980] START leaf\_size=29, n\_neighbors=47...  
 [CV 2/5; 952/1980] START leaf\_size=29, n\_neighbors=61...  
 [CV 1/5; 943/1980] END leaf\_size=29, n\_neighbors=52;; score=0.676 total time=0.0s  
 [CV 2/5; 943/1980] START leaf\_size=29, n\_neighbors=52...  
 [CV 2/5; 946/1980] END leaf\_size=29, n\_neighbors=55;; score=0.618 total time=0.0s  
 [CV 3/5; 946/1980] START leaf\_size=29, n\_neighbors=55...  
 [CV 4/5; 941/1980] END leaf\_size=29, n\_neighbors=50;; score=0.597 total time=0.0s  
 [CV 5/5; 941/1980] START leaf\_size=29, n\_neighbors=50...  
 [CV 4/5; 944/1980] END leaf\_size=29, n\_neighbors=53;; score=0.600 total time=0.0s  
 [CV 5/5; 944/1980] START leaf\_size=29, n\_neighbors=53...  
 [CV 5/5; 947/1980] END leaf\_size=29, n\_neighbors=56;; score=0.613 total time=0.0s  
 [CV 1/5; 948/1980] START leaf\_size=29, n\_neighbors=57...  
 [CV 5/5; 938/1980] END leaf\_size=29, n\_neighbors=47;; score=0.623 total time=0.0s  
 [CV 1/5; 939/1980] START leaf\_size=29, n\_neighbors=48...  
 [CV 4/5; 950/1980] END leaf\_size=29, n\_neighbors=59;; score=0.604 total time=0.0s  
 [CV 5/5; 950/1980] START leaf\_size=29, n\_neighbors=59...  
 [CV 2/5; 940/1980] END leaf\_size=29, n\_neighbors=49;; score=0.622 total time=0.0s  
 [CV 3/5; 940/1980] START leaf\_size=29, n\_neighbors=49...  
 [CV 2/5; 952/1980] END leaf\_size=29, n\_neighbors=61;; score=0.603 total time=0.0s  
 [CV 3/5; 952/1980] START leaf\_size=29, n\_neighbors=61...  
 [CV 2/5; 949/1980] END leaf\_size=29, n\_neighbors=58;; score=0.609 total time=0.0s  
 [CV 3/5; 949/1980] START leaf\_size=29, n\_neighbors=58...  
 [CV 3/5; 946/1980] END leaf\_size=29, n\_neighbors=55;; score=0.564 total time=0.0s  
 [CV 4/5; 946/1980] START leaf\_size=29, n\_neighbors=55...  
 [CV 5/5; 941/1980] END leaf\_size=29, n\_neighbors=50;; score=0.619 total time=0.0s  
 [CV 1/5; 942/1980] START leaf\_size=29, n\_neighbors=51...  
 [CV 2/5; 943/1980] END leaf\_size=29, n\_neighbors=52;; score=0.611 total time=0.0s  
 [CV 3/5; 943/1980] START leaf\_size=29, n\_neighbors=52...  
 [CV 1/5; 939/1980] END leaf\_size=29, n\_neighbors=48;; score=0.672 total time=

```

0.0s
[CV 2/5; 939/1980] START leaf_size=29, n_neighbors=48...
[CV 3/5; 940/1980] END leaf_size=29, n_neighbors=49;; score=0.568 total time=
0.0s
[CV 4/5; 940/1980] START leaf_size=29, n_neighbors=49...
[CV 1/5; 948/1980] END leaf_size=29, n_neighbors=57;; score=0.665 total time=
0.0s[CV 5/5; 950/1980] END leaf_size=29, n_neighbors=59;; score=0.610 total
time= 0.0s

[CV 1/5; 951/1980] START leaf_size=29, n_neighbors=60...
[CV 2/5; 948/1980] START leaf_size=29, n_neighbors=57...
[CV 5/5; 944/1980] END leaf_size=29, n_neighbors=53;; score=0.613 total time=
0.0s
[CV 1/5; 945/1980] START leaf_size=29, n_neighbors=54...
[CV 3/5; 952/1980] END leaf_size=29, n_neighbors=61;; score=0.557 total time=
0.0s
[CV 4/5; 952/1980] START leaf_size=29, n_neighbors=61...
[CV 4/5; 946/1980] END leaf_size=29, n_neighbors=55;; score=0.593 total time=
0.0s
[CV 5/5; 946/1980] START leaf_size=29, n_neighbors=55...
[CV 1/5; 942/1980] END leaf_size=29, n_neighbors=51;; score=0.680 total time=
0.0s
[CV 2/5; 942/1980] START leaf_size=29, n_neighbors=51...
[CV 3/5; 949/1980] END leaf_size=29, n_neighbors=58;; score=0.549 total time=
0.0s
[CV 4/5; 949/1980] START leaf_size=29, n_neighbors=58...
[CV 3/5; 943/1980] END leaf_size=29, n_neighbors=52;; score=0.566 total time=
0.0s
[CV 4/5; 943/1980] START leaf_size=29, n_neighbors=52...
[CV 2/5; 939/1980] END leaf_size=29, n_neighbors=48;; score=0.609 total time=
0.0s
[CV 4/5; 940/1980] END leaf_size=29, n_neighbors=49;; score=0.593 total time=
0.0s
[CV 5/5; 940/1980] START leaf_size=29, n_neighbors=49...
[CV 5/5; 953/1980] START leaf_size=29, n_neighbors=62...
[CV 2/5; 948/1980] END leaf_size=29, n_neighbors=57;; score=0.616 total time=
0.0s
[CV 3/5; 948/1980] START leaf_size=29, n_neighbors=57...
[CV 1/5; 951/1980] END leaf_size=29, n_neighbors=60;; score=0.667 total time=
0.0s
[CV 2/5; 951/1980] START leaf_size=29, n_neighbors=60...
[CV 1/5; 945/1980] END leaf_size=29, n_neighbors=54;; score=0.667 total time=
0.0s
[CV 2/5; 945/1980] START leaf_size=29, n_neighbors=54...
[CV 5/5; 946/1980] END leaf_size=29, n_neighbors=55;; score=0.608 total time=
0.0s
[CV 1/5; 947/1980] START leaf_size=29, n_neighbors=56...
[CV 2/5; 942/1980] END leaf_size=29, n_neighbors=51;; score=0.618 total time=

```

```

0.0s
[CV 3/5; 942/1980] START leaf_size=29, n_neighbors=51...
[CV 4/5; 952/1980] END leaf_size=29, n_neighbors=61;; score=0.604 total time=
0.0s
[CV 5/5; 952/1980] START leaf_size=29, n_neighbors=61...
[CV 5/5; 940/1980] END leaf_size=29, n_neighbors=49;; score=0.623 total time=
0.0s
[CV 5/5; 953/1980] END leaf_size=29, n_neighbors=62;; score=0.610 total time=
0.0s
[CV 1/5; 954/1980] START leaf_size=29, n_neighbors=63...
[CV 3/5; 955/1980] START leaf_size=29, n_neighbors=64...
[CV 3/5; 948/1980] END leaf_size=29, n_neighbors=57;; score=0.559 total time=
0.0s
[CV 4/5; 948/1980] START leaf_size=29, n_neighbors=57...
[CV 4/5; 949/1980] END leaf_size=29, n_neighbors=58;; score=0.595 total time=
0.0s
[CV 5/5; 949/1980] START leaf_size=29, n_neighbors=58...
[CV 4/5; 943/1980] END leaf_size=29, n_neighbors=52;; score=0.597 total time=
0.0s
[CV 5/5; 943/1980] START leaf_size=29, n_neighbors=52...
[CV 2/5; 951/1980] END leaf_size=29, n_neighbors=60;; score=0.605 total time=
0.0s
[CV 3/5; 951/1980] START leaf_size=29, n_neighbors=60...
[CV 3/5; 942/1980] END leaf_size=29, n_neighbors=51;; score=0.566 total time=
0.0s
[CV 1/5; 947/1980] END leaf_size=29, n_neighbors=56;; score=0.670 total time=
0.0s
[CV 2/5; 947/1980] START leaf_size=29, n_neighbors=56...
[CV 1/5; 957/1980] START leaf_size=29, n_neighbors=66...
[CV 4/5; 948/1980] END leaf_size=29, n_neighbors=57;; score=0.597 total time=
0.0s
[CV 5/5; 948/1980] START leaf_size=29, n_neighbors=57...
[CV 1/5; 954/1980] END leaf_size=29, n_neighbors=63;; score=0.665 total time=
0.0s
[CV 2/5; 954/1980] START leaf_size=29, n_neighbors=63...
[CV 3/5; 951/1980] END leaf_size=29, n_neighbors=60;; score=0.553 total time=
0.0s
[CV 5/5; 949/1980] END leaf_size=29, n_neighbors=58;; score=0.610 total time=
0.0s[CV 4/5; 951/1980] START leaf_size=29,
n_neighbors=60...

[CV 1/5; 950/1980] START leaf_size=29, n_neighbors=59...
[CV 2/5; 947/1980] END leaf_size=29, n_neighbors=56;; score=0.609 total time=
0.0s
[CV 4/5; 958/1980] START leaf_size=29, n_neighbors=67...
[CV 5/5; 948/1980] END leaf_size=29, n_neighbors=57;; score=0.610 total time=
0.0s
[CV 1/5; 957/1980] END leaf_size=29, n_neighbors=66;; score=0.663 total time=

```

0.0s  
 [CV 2/5; 957/1980] START leaf\_size=29, n\_neighbors=66...  
 [CV 2/5; 960/1980] START leaf\_size=29, n\_neighbors=69...  
 [CV 2/5; 954/1980] END leaf\_size=29, n\_neighbors=63;; score=0.609 total time=  
 0.0s  
 [CV 3/5; 954/1980] START leaf\_size=29, n\_neighbors=63...  
 [CV 4/5; 951/1980] END leaf\_size=29, n\_neighbors=60;; score=0.602 total time=  
 0.0s  
 [CV 5/5; 951/1980] START leaf\_size=29, n\_neighbors=60...  
 [CV 4/5; 958/1980] END leaf\_size=29, n\_neighbors=67;; score=0.587 total time=  
 0.0s  
 [CV 5/5; 958/1980] START leaf\_size=29, n\_neighbors=67...  
 [CV 3/5; 955/1980] END leaf\_size=29, n\_neighbors=64;; score=0.562 total time=  
 0.1s  
 [CV 4/5; 955/1980] START leaf\_size=29, n\_neighbors=64...  
 [CV 2/5; 945/1980] END leaf\_size=29, n\_neighbors=54;; score=0.618 total time=  
 0.1s  
 [CV 3/5; 945/1980] START leaf\_size=29, n\_neighbors=54...  
 [CV 1/5; 950/1980] END leaf\_size=29, n\_neighbors=59;; score=0.670 total time=  
 0.0s  
 [CV 2/5; 950/1980] START leaf\_size=29, n\_neighbors=59...  
 [CV 5/5; 943/1980] END leaf\_size=29, n\_neighbors=52;; score=0.619 total time=  
 0.1s  
 [CV 1/5; 944/1980] START leaf\_size=29, n\_neighbors=53...  
 [CV 2/5; 957/1980] END leaf\_size=29, n\_neighbors=66;; score=0.609 total time=  
 0.0s  
 [CV 3/5; 957/1980] START leaf\_size=29, n\_neighbors=66...  
 [CV 2/5; 960/1980] END leaf\_size=29, n\_neighbors=69;; score=0.609 total time=  
 0.0s  
 [CV 3/5; 960/1980] START leaf\_size=29, n\_neighbors=69...  
 [CV 5/5; 951/1980] END leaf\_size=29, n\_neighbors=60;; score=0.604 total time=  
 0.0s  
 [CV 5/5; 952/1980] END leaf\_size=29, n\_neighbors=61;; score=0.606 total time=  
 0.1s  
 [CV 1/5; 952/1980] START leaf\_size=29, n\_neighbors=61...  
 [CV 1/5; 953/1980] START leaf\_size=29, n\_neighbors=62...  
 [CV 3/5; 954/1980] END leaf\_size=29, n\_neighbors=63;; score=0.562 total time=  
 0.0s  
 [CV 4/5; 954/1980] START leaf\_size=29, n\_neighbors=63...  
 [CV 5/5; 958/1980] END leaf\_size=29, n\_neighbors=67;; score=0.613 total time=  
 0.0s  
 [CV 1/5; 959/1980] START leaf\_size=29, n\_neighbors=68...  
 [CV 3/5; 960/1980] END leaf\_size=29, n\_neighbors=69;; score=0.568 total time=  
 0.0s  
 [CV 4/5; 960/1980] START leaf\_size=29, n\_neighbors=69...  
 [CV 3/5; 957/1980] END leaf\_size=29, n\_neighbors=66;; score=0.566 total time=  
 0.0s  
 [CV 4/5; 957/1980] START leaf\_size=29, n\_neighbors=66...



[CV 2/5; 950/1980] END leaf\_size=29, n\_neighbors=59;; score=0.609 total time=0.0s  
 [CV 3/5; 950/1980] START leaf\_size=29, n\_neighbors=59...  
 [CV 1/5; 944/1980] END leaf\_size=29, n\_neighbors=53;; score=0.678 total time=0.0s  
 [CV 5/5; 961/1980] START leaf\_size=29, n\_neighbors=70...  
 [CV 4/5; 954/1980] END leaf\_size=29, n\_neighbors=63;; score=0.604 total time=0.0s  
 [CV 5/5; 954/1980] START leaf\_size=29, n\_neighbors=63...  
 [CV 3/5; 945/1980] END leaf\_size=29, n\_neighbors=54;; score=0.562 total time=0.0s  
 [CV 4/5; 945/1980] START leaf\_size=29, n\_neighbors=54...  
 [CV 4/5; 955/1980] END leaf\_size=29, n\_neighbors=64;; score=0.593 total time=0.0s  
 [CV 5/5; 955/1980] START leaf\_size=29, n\_neighbors=64...  
 [CV 1/5; 952/1980] END leaf\_size=29, n\_neighbors=61;; score=0.665 total time=0.0s  
 [CV 3/5; 963/1980] START leaf\_size=29, n\_neighbors=72...  
 [CV 1/5; 959/1980] END leaf\_size=29, n\_neighbors=68;; score=0.667 total time=0.0s  
 [CV 2/5; 959/1980] START leaf\_size=29, n\_neighbors=68...  
 [CV 1/5; 953/1980] END leaf\_size=29, n\_neighbors=62;; score=0.663 total time=0.0s  
 [CV 2/5; 953/1980] START leaf\_size=29, n\_neighbors=62...  
 [CV 4/5; 960/1980] END leaf\_size=29, n\_neighbors=69;; score=0.582 total time=0.0s  
 [CV 5/5; 960/1980] START leaf\_size=29, n\_neighbors=69...  
 [CV 4/5; 957/1980] END leaf\_size=29, n\_neighbors=66;; score=0.574 total time=0.0s  
 [CV 5/5; 957/1980] START leaf\_size=29, n\_neighbors=66...  
 [CV 5/5; 961/1980] END leaf\_size=29, n\_neighbors=70;; score=0.606 total time=0.0s  
 [CV 1/5; 962/1980] START leaf\_size=29, n\_neighbors=71...  
 [CV 5/5; 954/1980] END leaf\_size=29, n\_neighbors=63;; score=0.615 total time=0.0s  
 [CV 3/5; 950/1980] END leaf\_size=29, n\_neighbors=59;; score=0.553 total time=0.0s  
 [CV 1/5; 955/1980] START leaf\_size=29, n\_neighbors=64...  
 [CV 4/5; 945/1980] END leaf\_size=29, n\_neighbors=54;; score=0.595 total time=0.0s  
 [CV 5/5; 955/1980] END leaf\_size=29, n\_neighbors=64;; score=0.613 total time=0.0s  
 [CV 1/5; 965/1980] START leaf\_size=29, n\_neighbors=74...  
 [CV 1/5; 956/1980] START leaf\_size=29, n\_neighbors=65...  
 [CV 4/5; 966/1980] START leaf\_size=29, n\_neighbors=75...  
 [CV 3/5; 963/1980] END leaf\_size=29, n\_neighbors=72;; score=0.562 total time=0.0s  
 [CV 4/5; 963/1980] START leaf\_size=29, n\_neighbors=72...

[CV 2/5; 959/1980] END leaf\_size=29, n\_neighbors=68;; score=0.609 total time=0.0s  
 [CV 3/5; 959/1980] START leaf\_size=29, n\_neighbors=68...  
 [CV 2/5; 953/1980] END leaf\_size=29, n\_neighbors=62;; score=0.603 total time=0.0s  
 [CV 3/5; 953/1980] START leaf\_size=29, n\_neighbors=62...  
 [CV 5/5; 960/1980] END leaf\_size=29, n\_neighbors=69;; score=0.621 total time=0.0s  
 [CV 1/5; 961/1980] START leaf\_size=29, n\_neighbors=70...  
 [CV 5/5; 957/1980] END leaf\_size=29, n\_neighbors=66;; score=0.613 total time=0.0s  
 [CV 1/5; 958/1980] START leaf\_size=29, n\_neighbors=67...  
 [CV 1/5; 962/1980] END leaf\_size=29, n\_neighbors=71;; score=0.670 total time=0.0s  
 [CV 2/5; 962/1980] START leaf\_size=29, n\_neighbors=71...  
 [CV 1/5; 955/1980] END leaf\_size=29, n\_neighbors=64;; score=0.663 total time=0.0s  
 [CV 2/5; 955/1980] START leaf\_size=29, n\_neighbors=64...  
 [CV 1/5; 956/1980] END leaf\_size=29, n\_neighbors=65;; score=0.663 total time=0.0s  
 [CV 2/5; 956/1980] START leaf\_size=29, n\_neighbors=65...  
 [CV 4/5; 963/1980] END leaf\_size=29, n\_neighbors=72;; score=0.593 total time=0.0s  
 [CV 5/5; 963/1980] START leaf\_size=29, n\_neighbors=72...  
 [CV 4/5; 966/1980] END leaf\_size=29, n\_neighbors=75;; score=0.591 total time=0.0s  
 [CV 5/5; 966/1980] START leaf\_size=29, n\_neighbors=75...  
 [CV 3/5; 959/1980] END leaf\_size=29, n\_neighbors=68;; score=0.566 total time=0.0s  
 [CV 4/5; 959/1980] START leaf\_size=29, n\_neighbors=68...  
 [CV 1/5; 965/1980] END leaf\_size=29, n\_neighbors=74;; score=0.661 total time=0.0s  
 [CV 2/5; 965/1980] START leaf\_size=29, n\_neighbors=74...  
 [CV 1/5; 961/1980] END leaf\_size=29, n\_neighbors=70;; score=0.663 total time=0.0s  
 [CV 2/5; 961/1980] START leaf\_size=29, n\_neighbors=70...  
 [CV 3/5; 953/1980] END leaf\_size=29, n\_neighbors=62;; score=0.555 total time=0.0s  
 [CV 4/5; 953/1980] START leaf\_size=29, n\_neighbors=62...  
 [CV 1/5; 958/1980] END leaf\_size=29, n\_neighbors=67;; score=0.663 total time=0.0s  
 [CV 2/5; 958/1980] START leaf\_size=29, n\_neighbors=67...  
 [CV 2/5; 962/1980] END leaf\_size=29, n\_neighbors=71;; score=0.616 total time=0.0s  
 [CV 3/5; 962/1980] START leaf\_size=29, n\_neighbors=71...  
 [CV 2/5; 955/1980] END leaf\_size=29, n\_neighbors=64;; score=0.609 total time=0.0s  
 [CV 2/5; 968/1980] START leaf\_size=29, n\_neighbors=77...

[CV 2/5; 956/1980] END leaf\_size=29, n\_neighbors=65;; score=0.616 total time=0.0s  
 [CV 3/5; 956/1980] START leaf\_size=29, n\_neighbors=65...  
 [CV 4/5; 959/1980] END leaf\_size=29, n\_neighbors=68;; score=0.576 total time=0.0s  
 [CV 5/5; 959/1980] START leaf\_size=29, n\_neighbors=68...  
 [CV 5/5; 966/1980] END leaf\_size=29, n\_neighbors=75;; score=0.632 total time=0.0s  
 [CV 1/5; 967/1980] START leaf\_size=29, n\_neighbors=76...  
 [CV 4/5; 953/1980] END leaf\_size=29, n\_neighbors=62;; score=0.600 total time=0.0s  
 [CV 2/5; 958/1980] END leaf\_size=29, n\_neighbors=67;; score=0.611 total time=0.0s  
 [CV 3/5; 958/1980] START leaf\_size=29, n\_neighbors=67...  
 [CV 5/5; 969/1980] START leaf\_size=29, n\_neighbors=78...  
 [CV 2/5; 961/1980] END leaf\_size=29, n\_neighbors=70;; score=0.607 total time=0.0s  
 [CV 3/5; 961/1980] START leaf\_size=29, n\_neighbors=70...  
 [CV 5/5; 963/1980] END leaf\_size=29, n\_neighbors=72;; score=0.613 total time=0.0s  
 [CV 1/5; 964/1980] START leaf\_size=29, n\_neighbors=73...  
 [CV 3/5; 962/1980] END leaf\_size=29, n\_neighbors=71;; score=0.562 total time=0.0s  
 [CV 4/5; 962/1980] START leaf\_size=29, n\_neighbors=71...  
 [CV 2/5; 965/1980] END leaf\_size=29, n\_neighbors=74;; score=0.607 total time=0.0s  
 [CV 3/5; 965/1980] START leaf\_size=29, n\_neighbors=74...  
 [CV 2/5; 968/1980] END leaf\_size=29, n\_neighbors=77;; score=0.605 total time=0.0s  
 [CV 3/5; 968/1980] START leaf\_size=29, n\_neighbors=77...  
 [CV 3/5; 956/1980] END leaf\_size=29, n\_neighbors=65;; score=0.566 total time=0.0s  
 [CV 4/5; 956/1980] START leaf\_size=29, n\_neighbors=65...  
 [CV 5/5; 959/1980] END leaf\_size=29, n\_neighbors=68;; score=0.615 total time=0.0s  
 [CV 1/5; 960/1980] START leaf\_size=29, n\_neighbors=69...  
 [CV 3/5; 958/1980] END leaf\_size=29, n\_neighbors=67;; score=0.564 total time=0.0s  
 [CV 3/5; 971/1980] START leaf\_size=29, n\_neighbors=80...  
 [CV 1/5; 964/1980] END leaf\_size=29, n\_neighbors=73;; score=0.663 total time=0.0s  
 [CV 2/5; 964/1980] START leaf\_size=29, n\_neighbors=73...  
 [CV 1/5; 967/1980] END leaf\_size=29, n\_neighbors=76;; score=0.667 total time=0.0s  
 [CV 2/5; 967/1980] START leaf\_size=29, n\_neighbors=76...  
 [CV 3/5; 961/1980] END leaf\_size=29, n\_neighbors=70;; score=0.559 total time=0.0s  
 [CV 4/5; 961/1980] START leaf\_size=29, n\_neighbors=70...

[CV 5/5; 969/1980] END leaf\_size=29, n\_neighbors=78;; score=0.628 total time=0.0s  
 [CV 1/5; 970/1980] START leaf\_size=29, n\_neighbors=79...  
 [CV 4/5; 962/1980] END leaf\_size=29, n\_neighbors=71;; score=0.587 total time=0.0s  
 [CV 5/5; 962/1980] START leaf\_size=29, n\_neighbors=71...  
 [CV 3/5; 968/1980] END leaf\_size=29, n\_neighbors=77;; score=0.562 total time=0.0s  
 [CV 4/5; 956/1980] END leaf\_size=29, n\_neighbors=65;; score=0.591 total time=0.0s  
 [CV 4/5; 968/1980] START leaf\_size=29, n\_neighbors=77...  
  
 [CV 5/5; 956/1980] START leaf\_size=29, n\_neighbors=65...  
 [CV 1/5; 960/1980] END leaf\_size=29, n\_neighbors=69;; score=0.663 total time=0.0s  
 [CV 3/5; 965/1980] END leaf\_size=29, n\_neighbors=74;; score=0.557 total time=0.0s  
 [CV 4/5; 965/1980] START leaf\_size=29, n\_neighbors=74...  
 [CV 1/5; 973/1980] START leaf\_size=29, n\_neighbors=82...  
 [CV 2/5; 964/1980] END leaf\_size=29, n\_neighbors=73;; score=0.605 total time=0.0s  
 [CV 3/5; 971/1980] END leaf\_size=29, n\_neighbors=80;; score=0.564 total time=0.0s  
 [CV 3/5; 964/1980] START leaf\_size=29, n\_neighbors=73...  
 [CV 4/5; 971/1980] START leaf\_size=29, n\_neighbors=80...  
 [CV 2/5; 967/1980] END leaf\_size=29, n\_neighbors=76;; score=0.603 total time=0.0s  
 [CV 4/5; 961/1980] END leaf\_size=29, n\_neighbors=70;; score=0.589 total time=0.0s  
 [CV 3/5; 967/1980] START leaf\_size=29, n\_neighbors=76...  
 [CV 1/5; 970/1980] END leaf\_size=29, n\_neighbors=79;; score=0.659 total time=0.0s  
 [CV 4/5; 974/1980] START leaf\_size=29, n\_neighbors=83...  
  
 [CV 2/5; 970/1980] START leaf\_size=29, n\_neighbors=79...  
 [CV 5/5; 962/1980] END leaf\_size=29, n\_neighbors=71;; score=0.613 total time=0.0s  
 [CV 1/5; 963/1980] START leaf\_size=29, n\_neighbors=72...  
 [CV 5/5; 956/1980] END leaf\_size=29, n\_neighbors=65;; score=0.621 total time=0.0s  
 [CV 4/5; 968/1980] END leaf\_size=29, n\_neighbors=77;; score=0.580 total time=0.0s  
 [CV 5/5; 968/1980] START leaf\_size=29, n\_neighbors=77...  
 [CV 2/5; 976/1980] START leaf\_size=29, n\_neighbors=85...  
 [CV 3/5; 964/1980] END leaf\_size=29, n\_neighbors=73;; score=0.566 total time=0.0s  
 [CV 4/5; 964/1980] START leaf\_size=29, n\_neighbors=73...  
 [CV 4/5; 971/1980] END leaf\_size=29, n\_neighbors=80;; score=0.584 total time=

0.0s  
 [CV 5/5; 971/1980] START leaf\_size=29, n\_neighbors=80...  
 [CV 1/5; 973/1980] END leaf\_size=29, n\_neighbors=82;; score=0.659 total time=  
 0.0s  
 [CV 2/5; 973/1980] START leaf\_size=29, n\_neighbors=82...  
 [CV 3/5; 967/1980] END leaf\_size=29, n\_neighbors=76;; score=0.557 total time=  
 0.0s  
 [CV 4/5; 967/1980] START leaf\_size=29, n\_neighbors=76...  
 [CV 5/5; 968/1980] END leaf\_size=29, n\_neighbors=77;; score=0.617 total time=  
 0.0s  
 [CV 1/5; 969/1980] START leaf\_size=29, n\_neighbors=78...  
 [CV 4/5; 974/1980] END leaf\_size=29, n\_neighbors=83;; score=0.584 total time=  
 0.0s  
 [CV 5/5; 974/1980] START leaf\_size=29, n\_neighbors=83...  
 [CV 4/5; 965/1980] END leaf\_size=29, n\_neighbors=74;; score=0.591 total time=  
 0.1s  
 [CV 1/5; 963/1980] END leaf\_size=29, n\_neighbors=72;; score=0.663 total time=  
 0.0s  
 [CV 5/5; 965/1980] START leaf\_size=29, n\_neighbors=74...  
 [CV 2/5; 963/1980] START leaf\_size=29, n\_neighbors=72...  
 [CV 2/5; 976/1980] END leaf\_size=29, n\_neighbors=85;; score=0.600 total time=  
 0.0s  
 [CV 3/5; 976/1980] START leaf\_size=29, n\_neighbors=85...  
 [CV 2/5; 970/1980] END leaf\_size=29, n\_neighbors=79;; score=0.598 total time=  
 0.0s  
 [CV 3/5; 970/1980] START leaf\_size=29, n\_neighbors=79...  
 [CV 4/5; 964/1980] END leaf\_size=29, n\_neighbors=73;; score=0.591 total time=  
 0.0s  
 [CV 5/5; 964/1980] START leaf\_size=29, n\_neighbors=73...  
 [CV 5/5; 971/1980] END leaf\_size=29, n\_neighbors=80;; score=0.628 total time=  
 0.0s  
 [CV 1/5; 972/1980] START leaf\_size=29, n\_neighbors=81...  
 [CV 2/5; 973/1980] END leaf\_size=29, n\_neighbors=82;; score=0.600 total time=  
 0.0s  
 [CV 3/5; 973/1980] START leaf\_size=29, n\_neighbors=82...  
 [CV 4/5; 967/1980] END leaf\_size=29, n\_neighbors=76;; score=0.578 total time=  
 0.0s  
 [CV 5/5; 967/1980] START leaf\_size=29, n\_neighbors=76...  
 [CV 2/5; 963/1980] END leaf\_size=29, n\_neighbors=72;; score=0.607 total time=  
 0.0s  
 [CV 1/5; 969/1980] END leaf\_size=29, n\_neighbors=78;; score=0.659 total time=  
 0.0s  
 [CV 2/5; 969/1980] START leaf\_size=29, n\_neighbors=78...  
 [CV 3/5; 976/1980] END leaf\_size=29, n\_neighbors=85;; score=0.557 total time=  
 0.0s  
 [CV 4/5; 976/1980] START leaf\_size=29, n\_neighbors=85...  
 [CV 5/5; 974/1980] END leaf\_size=29, n\_neighbors=83;; score=0.619 total time=  
 0.0s

[CV 1/5; 975/1980] START leaf\_size=29, n\_neighbors=84...  
 [CV 5/5; 977/1980] START leaf\_size=29, n\_neighbors=86...  
 [CV 3/5; 970/1980] END leaf\_size=29, n\_neighbors=79;;, score=0.557 total time=0.0s  
 [CV 4/5; 970/1980] START leaf\_size=29, n\_neighbors=79...  
 [CV 5/5; 965/1980] END leaf\_size=29, n\_neighbors=74;;, score=0.623 total time=0.0s  
 [CV 1/5; 966/1980] START leaf\_size=29, n\_neighbors=75...  
 [CV 3/5; 973/1980] END leaf\_size=29, n\_neighbors=82;;, score=0.566 total time=0.0s  
 [CV 4/5; 973/1980] START leaf\_size=29, n\_neighbors=82...  
 [CV 1/5; 972/1980] END leaf\_size=29, n\_neighbors=81;;, score=0.659 total time=0.0s  
 [CV 2/5; 972/1980] START leaf\_size=29, n\_neighbors=81...  
 [CV 5/5; 964/1980] END leaf\_size=29, n\_neighbors=73;;, score=0.628 total time=0.0s  
 [CV 2/5; 969/1980] END leaf\_size=29, n\_neighbors=78;;, score=0.603 total time=0.0s  
 [CV 3/5; 969/1980] START leaf\_size=29, n\_neighbors=78...  
 [CV 5/5; 967/1980] END leaf\_size=29, n\_neighbors=76;;, score=0.621 total time=0.0s  
 [CV 1/5; 968/1980] START leaf\_size=29, n\_neighbors=77...  
 [CV 3/5; 979/1980] START leaf\_size=29, n\_neighbors=88...  
 [CV 4/5; 976/1980] END leaf\_size=29, n\_neighbors=85;;, score=0.576 total time=0.0s  
 [CV 5/5; 976/1980] START leaf\_size=29, n\_neighbors=85...  
 [CV 5/5; 977/1980] END leaf\_size=29, n\_neighbors=86;;, score=0.623 total time=0.0s  
 [CV 1/5; 978/1980] START leaf\_size=29, n\_neighbors=87...  
 [CV 1/5; 975/1980] END leaf\_size=29, n\_neighbors=84;;, score=0.654 total time=0.0s  
 [CV 2/5; 975/1980] START leaf\_size=29, n\_neighbors=84...  
 [CV 4/5; 970/1980] END leaf\_size=29, n\_neighbors=79;;, score=0.584 total time=0.0s  
 [CV 5/5; 970/1980] START leaf\_size=29, n\_neighbors=79...  
 [CV 4/5; 973/1980] END leaf\_size=29, n\_neighbors=82;;, score=0.587 total time=0.0s  
 [CV 5/5; 973/1980] START leaf\_size=29, n\_neighbors=82...  
 [CV 2/5; 972/1980] END leaf\_size=29, n\_neighbors=81;;, score=0.596 total time=0.0s  
 [CV 3/5; 972/1980] START leaf\_size=29, n\_neighbors=81...  
 [CV 1/5; 966/1980] END leaf\_size=29, n\_neighbors=75;;, score=0.667 total time=0.0s  
 [CV 2/5; 966/1980] START leaf\_size=29, n\_neighbors=75...  
 [CV 3/5; 969/1980] END leaf\_size=29, n\_neighbors=78;;, score=0.555 total time=0.0s  
 [CV 4/5; 969/1980] START leaf\_size=29, n\_neighbors=78...  
 [CV 5/5; 976/1980] END leaf\_size=29, n\_neighbors=85;;, score=0.626 total time=

```

0.0s
[CV 1/5; 977/1980] START leaf_size=29, n_neighbors=86...
[CV 1/5; 968/1980] END leaf_size=29, n_neighbors=77;;, score=0.667 total time=
0.0s
[CV 3/5; 979/1980] END leaf_size=29, n_neighbors=88;;, score=0.562 total time=
0.0s
[CV 4/5; 979/1980] START leaf_size=29, n_neighbors=88...
[CV 1/5; 978/1980] END leaf_size=29, n_neighbors=87;;, score=0.650 total time=
0.0s
[CV 2/5; 978/1980] START leaf_size=29, n_neighbors=87...
[CV 1/5; 981/1980] START leaf_size=29, n_neighbors=90...
[CV 2/5; 975/1980] END leaf_size=29, n_neighbors=84;;, score=0.603 total time=
0.0s
[CV 3/5; 975/1980] START leaf_size=29, n_neighbors=84...
[CV 5/5; 973/1980] END leaf_size=29, n_neighbors=82;;, score=0.630 total time=
0.0s
[CV 1/5; 974/1980] START leaf_size=29, n_neighbors=83...
[CV 3/5; 972/1980] END leaf_size=29, n_neighbors=81;;, score=0.562 total time=
0.0s
[CV 4/5; 972/1980] START leaf_size=29, n_neighbors=81...
[CV 5/5; 970/1980] END leaf_size=29, n_neighbors=79;;, score=0.619 total time=
0.0s
[CV 1/5; 971/1980] START leaf_size=29, n_neighbors=80...
[CV 4/5; 969/1980] END leaf_size=29, n_neighbors=78;;, score=0.571 total time=
0.0s
[CV 4/5; 982/1980] START leaf_size=29, n_neighbors=91...
[CV 1/5; 977/1980] END leaf_size=29, n_neighbors=86;;, score=0.648 total time=
0.0s
[CV 2/5; 977/1980] START leaf_size=29, n_neighbors=86...
[CV 4/5; 979/1980] END leaf_size=29, n_neighbors=88;;, score=0.578 total time=
0.0s
[CV 5/5; 979/1980] START leaf_size=29, n_neighbors=88...
[CV 2/5; 978/1980] END leaf_size=29, n_neighbors=87;;, score=0.603 total time=
0.0s
[CV 3/5; 978/1980] START leaf_size=29, n_neighbors=87...
[CV 1/5; 981/1980] END leaf_size=29, n_neighbors=90;;, score=0.650 total time=
0.0s
[CV 2/5; 981/1980] START leaf_size=29, n_neighbors=90...
[CV 3/5; 975/1980] END leaf_size=29, n_neighbors=84;;, score=0.555 total time=
0.0s
[CV 4/5; 975/1980] START leaf_size=29, n_neighbors=84...
[CV 2/5; 966/1980] END leaf_size=29, n_neighbors=75;;, score=0.603 total time=
0.0s
[CV 3/5; 966/1980] START leaf_size=29, n_neighbors=75...
[CV 1/5; 974/1980] END leaf_size=29, n_neighbors=83;;, score=0.650 total time=
0.0s
[CV 2/5; 974/1980] START leaf_size=29, n_neighbors=83...
[CV 4/5; 972/1980] END leaf_size=29, n_neighbors=81;;, score=0.587 total time=

```

0.0s  
[CV 5/5; 972/1980] START leaf\_size=29, n\_neighbors=81...  
[CV 1/5; 971/1980] END leaf\_size=29, n\_neighbors=80;; score=0.659 total time=0.0s  
[CV 2/5; 971/1980] START leaf\_size=29, n\_neighbors=80...  
[CV 2/5; 977/1980] END leaf\_size=29, n\_neighbors=86;; score=0.598 total time=0.0s  
[CV 3/5; 977/1980] START leaf\_size=29, n\_neighbors=86...  
[CV 3/5; 978/1980] END leaf\_size=29, n\_neighbors=87;; score=0.562 total time=0.0s  
[CV 4/5; 978/1980] START leaf\_size=29, n\_neighbors=87...  
[CV 5/5; 979/1980] END leaf\_size=29, n\_neighbors=88;; score=0.617 total time=0.0s  
[CV 1/5; 980/1980] START leaf\_size=29, n\_neighbors=89...  
[CV 4/5; 975/1980] END leaf\_size=29, n\_neighbors=84;; score=0.582 total time=0.0s  
[CV 5/5; 975/1980] START leaf\_size=29, n\_neighbors=84...  
[CV 2/5; 974/1980] END leaf\_size=29, n\_neighbors=83;; score=0.596 total time=0.0s  
[CV 3/5; 974/1980] START leaf\_size=29, n\_neighbors=83...  
[CV 2/5; 981/1980] END leaf\_size=29, n\_neighbors=90;; score=0.600 total time=0.0s  
[CV 3/5; 981/1980] START leaf\_size=29, n\_neighbors=90...  
[CV 3/5; 966/1980] END leaf\_size=29, n\_neighbors=75;; score=0.555 total time=0.0s  
[CV 4/5; 982/1980] END leaf\_size=29, n\_neighbors=91;; score=0.591 total time=0.0s  
[CV 5/5; 982/1980] START leaf\_size=29, n\_neighbors=91...  
[CV 2/5; 984/1980] START leaf\_size=29, n\_neighbors=93...  
[CV 5/5; 972/1980] END leaf\_size=29, n\_neighbors=81;; score=0.626 total time=0.0s  
[CV 5/5; 985/1980] START leaf\_size=29, n\_neighbors=94...  
[CV 3/5; 977/1980] END leaf\_size=29, n\_neighbors=86;; score=0.559 total time=0.0s  
[CV 4/5; 977/1980] START leaf\_size=29, n\_neighbors=86...  
[CV 4/5; 978/1980] END leaf\_size=29, n\_neighbors=87;; score=0.584 total time=0.0s  
[CV 5/5; 978/1980] START leaf\_size=29, n\_neighbors=87...  
[CV 2/5; 971/1980] END leaf\_size=29, n\_neighbors=80;; score=0.594 total time=0.0s  
[CV 1/5; 980/1980] END leaf\_size=29, n\_neighbors=89;; score=0.646 total time=0.0s  
[CV 2/5; 980/1980] START leaf\_size=29, n\_neighbors=89...  
[CV 3/5; 974/1980] END leaf\_size=29, n\_neighbors=83;; score=0.564 total time=0.0s  
[CV 3/5; 987/1980] START leaf\_size=29, n\_neighbors=96...  
[CV 5/5; 975/1980] END leaf\_size=29, n\_neighbors=84;; score=0.626 total time=0.0s



[CV 1/5; 976/1980] START leaf\_size=29, n\_neighbors=85...  
 [CV 5/5; 982/1980] END leaf\_size=29, n\_neighbors=91;; score=0.623 total time=0.0s  
 [CV 1/5; 983/1980] START leaf\_size=29, n\_neighbors=92...  
 [CV 3/5; 981/1980] END leaf\_size=29, n\_neighbors=90;; score=0.564 total time=0.0s  
 [CV 4/5; 981/1980] START leaf\_size=29, n\_neighbors=90...  
 [CV 2/5; 984/1980] END leaf\_size=29, n\_neighbors=93;; score=0.603 total time=0.0s  
 [CV 3/5; 984/1980] START leaf\_size=29, n\_neighbors=93...  
 [CV 1/5; 989/1980] START leaf\_size=29, n\_neighbors=98...  
 [CV 4/5; 977/1980] END leaf\_size=29, n\_neighbors=86;; score=0.580 total time=0.0s  
 [CV 5/5; 985/1980] END leaf\_size=29, n\_neighbors=94;; score=0.608 total time=0.0s  
 [CV 1/5; 986/1980] START leaf\_size=29, n\_neighbors=95...  
 [CV 4/5; 990/1980] START leaf\_size=29, n\_neighbors=99...  
 [CV 5/5; 978/1980] END leaf\_size=29, n\_neighbors=87;; score=0.619 total time=0.0s  
 [CV 1/5; 979/1980] START leaf\_size=29, n\_neighbors=88...  
 [CV 2/5; 980/1980] END leaf\_size=29, n\_neighbors=89;; score=0.600 total time=0.0s  
 [CV 3/5; 980/1980] START leaf\_size=29, n\_neighbors=89...  
 [CV 1/5; 983/1980] END leaf\_size=29, n\_neighbors=92;; score=0.646 total time=0.0s  
 [CV 2/5; 983/1980] START leaf\_size=29, n\_neighbors=92...  
 [CV 1/5; 976/1980] END leaf\_size=29, n\_neighbors=85;; score=0.650 total time=0.0s  
 [CV 4/5; 981/1980] END leaf\_size=29, n\_neighbors=90;; score=0.580 total time=0.0s  
 [CV 5/5; 981/1980] START leaf\_size=29, n\_neighbors=90...  
 [CV 3/5; 987/1980] END leaf\_size=29, n\_neighbors=96;; score=0.564 total time=0.0s  
 [CV 2/5; 992/1980] START leaf\_size=30, n\_neighbors=2...  
 [CV 4/5; 987/1980] START leaf\_size=29, n\_neighbors=96...  
 [CV 1/5; 989/1980] END leaf\_size=29, n\_neighbors=98;; score=0.635 total time=0.0s  
 [CV 2/5; 989/1980] START leaf\_size=29, n\_neighbors=98...  
 [CV 3/5; 984/1980] END leaf\_size=29, n\_neighbors=93;; score=0.564 total time=0.0s  
 [CV 4/5; 984/1980] START leaf\_size=29, n\_neighbors=93...  
 [CV 2/5; 992/1980] END leaf\_size=30, n\_neighbors=2;; score=0.579 total time=0.0s  
 [CV 3/5; 992/1980] START leaf\_size=30, n\_neighbors=2...  
 [CV 1/5; 979/1980] END leaf\_size=29, n\_neighbors=88;; score=0.652 total time=0.0s  
 [CV 2/5; 979/1980] START leaf\_size=29, n\_neighbors=88...  
 [CV 4/5; 990/1980] END leaf\_size=29, n\_neighbors=99;; score=0.589 total time=

```

0.0s
[CV 5/5; 990/1980] START leaf_size=29, n_neighbors=99...
[CV 1/5; 986/1980] END leaf_size=29, n_neighbors=95;; score=0.644 total time=
0.0s
[CV 2/5; 986/1980] START leaf_size=29, n_neighbors=95...
[CV 3/5; 980/1980] END leaf_size=29, n_neighbors=89;; score=0.564 total time=
0.0s
[CV 4/5; 980/1980] START leaf_size=29, n_neighbors=89...
[CV 2/5; 983/1980] END leaf_size=29, n_neighbors=92;; score=0.598 total time=
0.0s
[CV 3/5; 983/1980] START leaf_size=29, n_neighbors=92...
[CV 5/5; 981/1980] END leaf_size=29, n_neighbors=90;; score=0.617 total time=
0.0s
[CV 1/5; 982/1980] START leaf_size=29, n_neighbors=91...
[CV 4/5; 987/1980] END leaf_size=29, n_neighbors=96;; score=0.582 total time=
0.0s
[CV 5/5; 987/1980] START leaf_size=29, n_neighbors=96...
[CV 2/5; 989/1980] END leaf_size=29, n_neighbors=98;; score=0.596 total time=
0.0s
[CV 3/5; 989/1980] START leaf_size=29, n_neighbors=98...
[CV 3/5; 992/1980] END leaf_size=30, n_neighbors=2;; score=0.512 total time=
0.0s
[CV 4/5; 992/1980] START leaf_size=30, n_neighbors=2...
[CV 4/5; 984/1980] END leaf_size=29, n_neighbors=93;; score=0.587 total time=
0.0s
[CV 5/5; 984/1980] START leaf_size=29, n_neighbors=93...
[CV 2/5; 979/1980] END leaf_size=29, n_neighbors=88;; score=0.600 total time=
0.0s
[CV 5/5; 993/1980] START leaf_size=30, n_neighbors=3...
[CV 4/5; 992/1980] END leaf_size=30, n_neighbors=2;; score=0.571 total time=
0.0s
[CV 5/5; 992/1980] START leaf_size=30, n_neighbors=2...
[CV 2/5; 986/1980] END leaf_size=29, n_neighbors=95;; score=0.603 total time=
0.0s
[CV 3/5; 986/1980] START leaf_size=29, n_neighbors=95...
[CV 5/5; 990/1980] END leaf_size=29, n_neighbors=99;; score=0.610 total time=
0.0s
[CV 1/5; 991/1980] START leaf_size=30, n_neighbors=1...
[CV 3/5; 983/1980] END leaf_size=29, n_neighbors=92;; score=0.564 total time=
0.0s
[CV 4/5; 983/1980] START leaf_size=29, n_neighbors=92...
[CV 1/5; 982/1980] END leaf_size=29, n_neighbors=91;; score=0.648 total time=
0.0s
[CV 2/5; 982/1980] START leaf_size=29, n_neighbors=91...
[CV 3/5; 989/1980] END leaf_size=29, n_neighbors=98;; score=0.562 total time=
0.0s
[CV 4/5; 989/1980] START leaf_size=29, n_neighbors=98...
[CV 5/5; 993/1980] END leaf_size=30, n_neighbors=3;; score=0.593 total time=

```

0.0s  
 [CV 1/5; 994/1980] START leaf\_size=30, n\_neighbors=4...  
 [CV 5/5; 987/1980] END leaf\_size=29, n\_neighbors=96;; score=0.604 total time=  
 0.0s  
 [CV 1/5; 988/1980] START leaf\_size=29, n\_neighbors=97...  
 [CV 4/5; 980/1980] END leaf\_size=29, n\_neighbors=89;; score=0.591 total time=  
 0.0s  
 [CV 5/5; 980/1980] START leaf\_size=29, n\_neighbors=89...  
 [CV 5/5; 992/1980] END leaf\_size=30, n\_neighbors=2;; score=0.574 total time=  
 0.0s  
 [CV 1/5; 993/1980] START leaf\_size=30, n\_neighbors=3...  
 [CV 1/5; 991/1980] END leaf\_size=30, n\_neighbors=1;; score=0.516 total time=  
 0.0s  
 [CV 2/5; 991/1980] START leaf\_size=30, n\_neighbors=1...  
 [CV 5/5; 984/1980] END leaf\_size=29, n\_neighbors=93;; score=0.617 total time=  
 0.0s  
 [CV 1/5; 985/1980] START leaf\_size=29, n\_neighbors=94...  
 [CV 4/5; 983/1980] END leaf\_size=29, n\_neighbors=92;; score=0.582 total time=  
 0.0s  
 [CV 5/5; 983/1980] START leaf\_size=29, n\_neighbors=92...  
 [CV 3/5; 986/1980] END leaf\_size=29, n\_neighbors=95;; score=0.566 total time=  
 0.0s  
 [CV 4/5; 986/1980] START leaf\_size=29, n\_neighbors=95...  
 [CV 1/5; 994/1980] END leaf\_size=30, n\_neighbors=4;; score=0.562 total time=  
 0.0s  
 [CV 2/5; 994/1980] START leaf\_size=30, n\_neighbors=4...  
 [CV 1/5; 993/1980] END leaf\_size=30, n\_neighbors=3;; score=0.557 total time=  
 0.0s  
 [CV 2/5; 993/1980] START leaf\_size=30, n\_neighbors=3...  
 [CV 2/5; 991/1980] END leaf\_size=30, n\_neighbors=1;; score=0.568 total time=  
 0.0s  
 [CV 3/5; 991/1980] START leaf\_size=30, n\_neighbors=1...  
 [CV 2/5; 982/1980] END leaf\_size=29, n\_neighbors=91;; score=0.605 total time=  
 0.0s  
 [CV 3/5; 982/1980] START leaf\_size=29, n\_neighbors=91...  
 [CV 5/5; 980/1980] END leaf\_size=29, n\_neighbors=89;; score=0.621 total time=  
 0.0s  
 [CV 4/5; 989/1980] END leaf\_size=29, n\_neighbors=98;; score=0.584 total time=  
 0.0s  
 [CV 5/5; 989/1980] START leaf\_size=29, n\_neighbors=98...  
 [CV 3/5; 995/1980] START leaf\_size=30, n\_neighbors=5...  
 [CV 1/5; 988/1980] END leaf\_size=29, n\_neighbors=97;; score=0.641 total time=  
 0.0s  
 [CV 2/5; 988/1980] START leaf\_size=29, n\_neighbors=97...  
 [CV 2/5; 994/1980] END leaf\_size=30, n\_neighbors=4;; score=0.581 total time=  
 0.0s  
 [CV 3/5; 994/1980] START leaf\_size=30, n\_neighbors=4...  
 [CV 2/5; 993/1980] END leaf\_size=30, n\_neighbors=3;; score=0.579 total time=

```

0.0s
[CV 3/5; 993/1980] START leaf_size=30, n_neighbors=3...
[CV 3/5; 991/1980] END leaf_size=30, n_neighbors=1;; score=0.490 total time=
0.0s
[CV 4/5; 991/1980] START leaf_size=30, n_neighbors=1...
[CV 3/5; 995/1980] END leaf_size=30, n_neighbors=5;; score=0.536 total time=
0.0s
[CV 4/5; 995/1980] START leaf_size=30, n_neighbors=5...
[CV 5/5; 983/1980] END leaf_size=29, n_neighbors=92;; score=0.621 total time=
0.0s
[CV 1/5; 984/1980] START leaf_size=29, n_neighbors=93...
[CV 4/5; 986/1980] END leaf_size=29, n_neighbors=95;; score=0.584 total time=
0.0s
[CV 5/5; 986/1980] START leaf_size=29, n_neighbors=95...
[CV 3/5; 993/1980] END leaf_size=30, n_neighbors=3;; score=0.484 total time=
0.0s
[CV 1/5; 985/1980] END leaf_size=29, n_neighbors=94;; score=0.644 total time=
0.0s
[CV 4/5; 993/1980] START leaf_size=30, n_neighbors=3...
[CV 2/5; 985/1980] START leaf_size=29, n_neighbors=94...
[CV 3/5; 994/1980] END leaf_size=30, n_neighbors=4;; score=0.544 total time=
0.0s
[CV 4/5; 994/1980] START leaf_size=30, n_neighbors=4...
[CV 3/5; 982/1980] END leaf_size=29, n_neighbors=91;; score=0.564 total time=
0.0s
[CV 1/5; 997/1980] START leaf_size=30, n_neighbors=7...
[CV 4/5; 991/1980] END leaf_size=30, n_neighbors=1;; score=0.539 total time=
0.0s[CV 5/5; 989/1980] END leaf_size=29, n_neighbors=98;; score=0.606 total
time= 0.0s

[CV 1/5; 990/1980] START leaf_size=29, n_neighbors=99...
[CV 5/5; 991/1980] START leaf_size=30, n_neighbors=1...
[CV 4/5; 995/1980] END leaf_size=30, n_neighbors=5;; score=0.589 total time=
0.0s
[CV 5/5; 995/1980] START leaf_size=30, n_neighbors=5...
[CV 4/5; 993/1980] END leaf_size=30, n_neighbors=3;; score=0.584 total time=
0.0s
[CV 4/5; 994/1980] END leaf_size=30, n_neighbors=4;; score=0.580 total time=
0.0s
[CV 5/5; 994/1980] START leaf_size=30, n_neighbors=4...
[CV 4/5; 998/1980] START leaf_size=30, n_neighbors=8...
[CV 5/5; 991/1980] END leaf_size=30, n_neighbors=1;; score=0.567 total time=
0.0s[CV 2/5; 988/1980] END leaf_size=29, n_neighbors=97;; score=0.594 total
time= 0.0s
[CV 3/5; 988/1980] START leaf_size=29, n_neighbors=97...

[CV 1/5; 992/1980] START leaf_size=30, n_neighbors=2...
[CV 1/5; 984/1980] END leaf_size=29, n_neighbors=93;; score=0.646 total time=

```

```

0.0s
[CV 1/5; 997/1980] END leaf_size=30, n_neighbors=7;; score=0.568 total time=
0.0s
[CV 2/5; 997/1980] START leaf_size=30, n_neighbors=7...
[CV 2/5; 1000/1980] START leaf_size=30, n_neighbors=10...
[CV 5/5; 995/1980] END leaf_size=30, n_neighbors=5;; score=0.591 total time=
0.0s
[CV 1/5; 996/1980] START leaf_size=30, n_neighbors=6...
[CV 5/5; 986/1980] END leaf_size=29, n_neighbors=95;; score=0.608 total time=
0.0s
[CV 1/5; 987/1980] START leaf_size=29, n_neighbors=96...
[CV 2/5; 985/1980] END leaf_size=29, n_neighbors=94;; score=0.600 total time=
0.0s
[CV 3/5; 985/1980] START leaf_size=29, n_neighbors=94...
[CV 1/5; 990/1980] END leaf_size=29, n_neighbors=99;; score=0.641 total time=
0.0s
[CV 2/5; 990/1980] START leaf_size=29, n_neighbors=99...
[CV 5/5; 994/1980] END leaf_size=30, n_neighbors=4;; score=0.593 total time=
0.0s
[CV 1/5; 995/1980] START leaf_size=30, n_neighbors=5...
[CV 4/5; 998/1980] END leaf_size=30, n_neighbors=8;; score=0.617 total time=
0.0s
[CV 5/5; 998/1980] START leaf_size=30, n_neighbors=8...
[CV 1/5; 992/1980] END leaf_size=30, n_neighbors=2;; score=0.566 total time=
0.0s[CV 2/5; 1000/1980] END leaf_size=30, n_neighbors=10;; score=0.568 total
time= 0.0s

[CV 3/5; 1000/1980] START leaf_size=30, n_neighbors=10...
[CV 2/5; 997/1980] END leaf_size=30, n_neighbors=7;; score=0.559 total time=
0.0s
[CV 3/5; 997/1980] START leaf_size=30, n_neighbors=7...
[CV 5/5; 1001/1980] START leaf_size=30, n_neighbors=11...
[CV 1/5; 996/1980] END leaf_size=30, n_neighbors=6;; score=0.570 total time=
0.0s
[CV 2/5; 996/1980] START leaf_size=30, n_neighbors=6...
[CV 1/5; 995/1980] END leaf_size=30, n_neighbors=5;; score=0.546 total time=
0.0s
[CV 2/5; 995/1980] START leaf_size=30, n_neighbors=5...
[CV 5/5; 998/1980] END leaf_size=30, n_neighbors=8;; score=0.608 total time=
0.0s
[CV 1/5; 999/1980] START leaf_size=30, n_neighbors=9...
[CV 3/5; 1000/1980] END leaf_size=30, n_neighbors=10;; score=0.549 total time=
0.0s
[CV 4/5; 1000/1980] START leaf_size=30, n_neighbors=10...
[CV 3/5; 997/1980] END leaf_size=30, n_neighbors=7;; score=0.551 total time=
0.0s
[CV 4/5; 997/1980] START leaf_size=30, n_neighbors=7...
[CV 1/5; 987/1980] END leaf_size=29, n_neighbors=96;; score=0.637 total time=

```

0.0s  
 [CV 2/5; 987/1980] START leaf\_size=29, n\_neighbors=96...  
 [CV 3/5; 985/1980] END leaf\_size=29, n\_neighbors=94;; score=0.562 total time=  
 0.0s  
 [CV 4/5; 985/1980] START leaf\_size=29, n\_neighbors=94...  
 [CV 2/5; 996/1980] END leaf\_size=30, n\_neighbors=6;; score=0.546 total time=  
 0.0s  
 [CV 3/5; 996/1980] START leaf\_size=30, n\_neighbors=6...  
 [CV 3/5; 988/1980] END leaf\_size=29, n\_neighbors=97;; score=0.564 total time=  
 0.1s  
 [CV 4/5; 988/1980] START leaf\_size=29, n\_neighbors=97...  
 [CV 2/5; 990/1980] END leaf\_size=29, n\_neighbors=99;; score=0.598 total time=  
 0.0s  
 [CV 5/5; 1001/1980] END leaf\_size=30, n\_neighbors=11;; score=0.606 total time=  
 0.0s  
 [CV 3/5; 990/1980] START leaf\_size=29, n\_neighbors=99...  
 [CV 1/5; 1002/1980] START leaf\_size=30, n\_neighbors=12...  
 [CV 2/5; 995/1980] END leaf\_size=30, n\_neighbors=5;; score=0.562 total time=  
 0.0s  
 [CV 3/5; 1003/1980] START leaf\_size=30, n\_neighbors=13...  
 [CV 4/5; 1000/1980] END leaf\_size=30, n\_neighbors=10;; score=0.597 total time=  
 0.0s  
 [CV 5/5; 1000/1980] START leaf\_size=30, n\_neighbors=10...  
 [CV 1/5; 999/1980] END leaf\_size=30, n\_neighbors=9;; score=0.592 total time=  
 0.0s  
 [CV 2/5; 999/1980] START leaf\_size=30, n\_neighbors=9...  
 [CV 4/5; 997/1980] END leaf\_size=30, n\_neighbors=7;; score=0.584 total time=  
 0.0s  
 [CV 5/5; 997/1980] START leaf\_size=30, n\_neighbors=7...  
 [CV 1/5; 1002/1980] END leaf\_size=30, n\_neighbors=12;; score=0.648 total time=  
 0.0s  
 [CV 2/5; 1002/1980] START leaf\_size=30, n\_neighbors=12...  
 [CV 3/5; 1003/1980] END leaf\_size=30, n\_neighbors=13;; score=0.553 total time=  
 0.0s  
 [CV 4/5; 1003/1980] START leaf\_size=30, n\_neighbors=13...  
 [CV 5/5; 1000/1980] END leaf\_size=30, n\_neighbors=10;; score=0.615 total time=  
 0.0s  
 [CV 1/5; 1001/1980] START leaf\_size=30, n\_neighbors=11...  
 [CV 2/5; 999/1980] END leaf\_size=30, n\_neighbors=9;; score=0.570 total time=  
 0.0s  
 [CV 3/5; 999/1980] START leaf\_size=30, n\_neighbors=9...  
 [CV 3/5; 990/1980] END leaf\_size=29, n\_neighbors=99;; score=0.566 total time=  
 0.0s  
 [CV 3/5; 996/1980] END leaf\_size=30, n\_neighbors=6;; score=0.555 total time=  
 0.0s  
 [CV 4/5; 996/1980] START leaf\_size=30, n\_neighbors=6...  
 [CV 2/5; 987/1980] END leaf\_size=29, n\_neighbors=96;; score=0.598 total time=  
 0.0s

[CV 4/5; 985/1980] END leaf\_size=29, n\_neighbors=94;; score=0.582 total time=0.0s  
 [CV 5/5; 997/1980] END leaf\_size=30, n\_neighbors=7;; score=0.613 total time=0.0s  
 [CV 1/5; 998/1980] START leaf\_size=30, n\_neighbors=8...  
 [CV 1/5; 1005/1980] START leaf\_size=30, n\_neighbors=15...  
 [CV 4/5; 1006/1980] START leaf\_size=30, n\_neighbors=16...  
 [CV 4/5; 988/1980] END leaf\_size=29, n\_neighbors=97;; score=0.580 total time=0.0s  
 [CV 5/5; 988/1980] START leaf\_size=29, n\_neighbors=97...  
 [CV 2/5; 1008/1980] START leaf\_size=30, n\_neighbors=18...  
 [CV 2/5; 1002/1980] END leaf\_size=30, n\_neighbors=12;; score=0.581 total time=0.0s  
 [CV 3/5; 1002/1980] START leaf\_size=30, n\_neighbors=12...  
 [CV 1/5; 1001/1980] END leaf\_size=30, n\_neighbors=11;; score=0.624 total time=0.0s  
 [CV 2/5; 1001/1980] START leaf\_size=30, n\_neighbors=11...  
 [CV 4/5; 996/1980] END leaf\_size=30, n\_neighbors=6;; score=0.578 total time=0.0s  
 [CV 5/5; 996/1980] START leaf\_size=30, n\_neighbors=6...  
 [CV 3/5; 999/1980] END leaf\_size=30, n\_neighbors=9;; score=0.559 total time=0.0s  
 [CV 4/5; 999/1980] START leaf\_size=30, n\_neighbors=9...  
 [CV 4/5; 1003/1980] END leaf\_size=30, n\_neighbors=13;; score=0.574 total time=0.0s  
 [CV 5/5; 1003/1980] START leaf\_size=30, n\_neighbors=13...  
 [CV 1/5; 998/1980] END leaf\_size=30, n\_neighbors=8;; score=0.568 total time=0.0s  
 [CV 2/5; 998/1980] START leaf\_size=30, n\_neighbors=8...  
 [CV 1/5; 1005/1980] END leaf\_size=30, n\_neighbors=15;; score=0.637 total time=0.0s  
 [CV 2/5; 1005/1980] START leaf\_size=30, n\_neighbors=15...  
 [CV 2/5; 1001/1980] END leaf\_size=30, n\_neighbors=11;; score=0.579 total time=0.0s  
 [CV 3/5; 1001/1980] START leaf\_size=30, n\_neighbors=11...  
 [CV 4/5; 1006/1980] END leaf\_size=30, n\_neighbors=16;; score=0.584 total time=0.0s  
 [CV 5/5; 1006/1980] START leaf\_size=30, n\_neighbors=16...  
 [CV 3/5; 1002/1980] END leaf\_size=30, n\_neighbors=12;; score=0.546 total time=0.0s  
 [CV 4/5; 1002/1980] START leaf\_size=30, n\_neighbors=12...  
 [CV 5/5; 996/1980] END leaf\_size=30, n\_neighbors=6;; score=0.582 total time=0.0s  
 [CV 4/5; 999/1980] END leaf\_size=30, n\_neighbors=9;; score=0.589 total time=0.0s  
 [CV 5/5; 999/1980] START leaf\_size=30, n\_neighbors=9...  
 [CV 2/5; 1008/1980] END leaf\_size=30, n\_neighbors=18;; score=0.590 total time=0.0s

[CV 3/5; 1008/1980] START leaf\_size=30, n\_neighbors=18...  
 [CV 5/5; 1009/1980] START leaf\_size=30, n\_neighbors=19...  
 [CV 5/5; 1003/1980] END leaf\_size=30, n\_neighbors=13;; score=0.591 total time=0.0s  
 [CV 1/5; 1004/1980] START leaf\_size=30, n\_neighbors=14...  
 [CV 2/5; 998/1980] END leaf\_size=30, n\_neighbors=8;; score=0.551 total time=0.0s  
 [CV 3/5; 998/1980] START leaf\_size=30, n\_neighbors=8...  
 [CV 5/5; 988/1980] END leaf\_size=29, n\_neighbors=97;; score=0.602 total time=0.0s  
 [CV 3/5; 1011/1980] START leaf\_size=30, n\_neighbors=21...  
 [CV 3/5; 1001/1980] END leaf\_size=30, n\_neighbors=11;; score=0.551 total time=0.0s  
 [CV 4/5; 1001/1980] START leaf\_size=30, n\_neighbors=11...  
 [CV 2/5; 1005/1980] END leaf\_size=30, n\_neighbors=15;; score=0.570 total time=0.0s  
 [CV 3/5; 1005/1980] START leaf\_size=30, n\_neighbors=15...  
 [CV 5/5; 999/1980] END leaf\_size=30, n\_neighbors=9;; score=0.613 total time=0.0s  
 [CV 1/5; 1000/1980] START leaf\_size=30, n\_neighbors=10...  
 [CV 4/5; 1002/1980] END leaf\_size=30, n\_neighbors=12;; score=0.576 total time=0.0s  
 [CV 5/5; 1002/1980] START leaf\_size=30, n\_neighbors=12...  
 [CV 5/5; 1006/1980] END leaf\_size=30, n\_neighbors=16;; score=0.621 total time=0.0s  
 [CV 1/5; 1007/1980] START leaf\_size=30, n\_neighbors=17...  
 [CV 5/5; 1009/1980] END leaf\_size=30, n\_neighbors=19;; score=0.626 total time=0.0s  
 [CV 1/5; 1010/1980] START leaf\_size=30, n\_neighbors=20...  
 [CV 3/5; 998/1980] END leaf\_size=30, n\_neighbors=8;; score=0.551 total time=0.0s  
 [CV 3/5; 1008/1980] END leaf\_size=30, n\_neighbors=18;; score=0.555 total time=0.0s  
 [CV 4/5; 1008/1980] START leaf\_size=30, n\_neighbors=18...  
 [CV 1/5; 1004/1980] END leaf\_size=30, n\_neighbors=14;; score=0.644 total time=0.0s  
 [CV 2/5; 1004/1980] START leaf\_size=30, n\_neighbors=14...  
 [CV 1/5; 1013/1980] START leaf\_size=30, n\_neighbors=23...  
 [CV 4/5; 1001/1980] END leaf\_size=30, n\_neighbors=11;; score=0.589 total time=0.0s  
 [CV 4/5; 1014/1980] START leaf\_size=30, n\_neighbors=24...  
 [CV 1/5; 1000/1980] END leaf\_size=30, n\_neighbors=10;; score=0.611 total time=0.0s  
 [CV 5/5; 1002/1980] END leaf\_size=30, n\_neighbors=12;; score=0.613 total time=0.0s  
 [CV 1/5; 1003/1980] START leaf\_size=30, n\_neighbors=13...  
 [CV 2/5; 1016/1980] START leaf\_size=30, n\_neighbors=26...  
 [CV 3/5; 1011/1980] END leaf\_size=30, n\_neighbors=21;; score=0.559 total time=



0.0s  
[CV 4/5; 1011/1980] START leaf\_size=30, n\_neighbors=21...  
[CV 3/5; 1005/1980] END leaf\_size=30, n\_neighbors=15;; score=0.557 total time=0.0s  
[CV 4/5; 1005/1980] START leaf\_size=30, n\_neighbors=15...  
[CV 1/5; 1007/1980] END leaf\_size=30, n\_neighbors=17;; score=0.631 total time=0.0s  
[CV 2/5; 1007/1980] START leaf\_size=30, n\_neighbors=17...  
[CV 1/5; 1010/1980] END leaf\_size=30, n\_neighbors=20;; score=0.618 total time=0.0s  
[CV 2/5; 1010/1980] START leaf\_size=30, n\_neighbors=20...  
[CV 1/5; 1013/1980] END leaf\_size=30, n\_neighbors=23;; score=0.646 total time=0.0s  
[CV 2/5; 1013/1980] START leaf\_size=30, n\_neighbors=23...  
[CV 2/5; 1004/1980] END leaf\_size=30, n\_neighbors=14;; score=0.572 total time=0.0s  
[CV 3/5; 1004/1980] START leaf\_size=30, n\_neighbors=14...  
[CV 4/5; 1008/1980] END leaf\_size=30, n\_neighbors=18;; score=0.600 total time=0.0s  
[CV 5/5; 1008/1980] START leaf\_size=30, n\_neighbors=18...  
[CV 1/5; 1003/1980] END leaf\_size=30, n\_neighbors=13;; score=0.633 total time=0.0s  
[CV 2/5; 1003/1980] START leaf\_size=30, n\_neighbors=13...  
[CV 4/5; 1014/1980] END leaf\_size=30, n\_neighbors=24;; score=0.597 total time=0.0s  
[CV 5/5; 1014/1980] START leaf\_size=30, n\_neighbors=24...  
[CV 2/5; 1016/1980] END leaf\_size=30, n\_neighbors=26;; score=0.600 total time=0.0s  
[CV 3/5; 1016/1980] START leaf\_size=30, n\_neighbors=26...  
[CV 2/5; 1007/1980] END leaf\_size=30, n\_neighbors=17;; score=0.568 total time=0.0s  
[CV 3/5; 1007/1980] START leaf\_size=30, n\_neighbors=17...  
[CV 2/5; 1010/1980] END leaf\_size=30, n\_neighbors=20;; score=0.583 total time=0.0s  
[CV 3/5; 1010/1980] START leaf\_size=30, n\_neighbors=20...  
[CV 2/5; 1013/1980] END leaf\_size=30, n\_neighbors=23;; score=0.583 total time=0.0s  
[CV 3/5; 1013/1980] START leaf\_size=30, n\_neighbors=23...  
[CV 3/5; 1004/1980] END leaf\_size=30, n\_neighbors=14;; score=0.544 total time=0.0s  
[CV 4/5; 1004/1980] START leaf\_size=30, n\_neighbors=14...  
[CV 4/5; 1005/1980] END leaf\_size=30, n\_neighbors=15;; score=0.584 total time=0.0s  
[CV 5/5; 1005/1980] START leaf\_size=30, n\_neighbors=15...  
[CV 4/5; 1011/1980] END leaf\_size=30, n\_neighbors=21;; score=0.606 total time=0.0s  
[CV 5/5; 1011/1980] START leaf\_size=30, n\_neighbors=21...  
[CV 2/5; 1003/1980] END leaf\_size=30, n\_neighbors=13;; score=0.570 total time=

0.0s  
 [CV 5/5; 1017/1980] START leaf\_size=30, n\_neighbors=27...  
 [CV 3/5; 1016/1980] END leaf\_size=30, n\_neighbors=26;;, score=0.564 total time=  
 0.0s  
 [CV 4/5; 1016/1980] START leaf\_size=30, n\_neighbors=26...  
 [CV 5/5; 1008/1980] END leaf\_size=30, n\_neighbors=18;;, score=0.617 total time=  
 0.0s  
 [CV 1/5; 1009/1980] START leaf\_size=30, n\_neighbors=19...  
 [CV 3/5; 1007/1980] END leaf\_size=30, n\_neighbors=17;;, score=0.564 total time=  
 0.0s  
 [CV 4/5; 1007/1980] START leaf\_size=30, n\_neighbors=17...  
 [CV 5/5; 1014/1980] END leaf\_size=30, n\_neighbors=24;;, score=0.647 total time=  
 0.0s  
 [CV 1/5; 1015/1980] START leaf\_size=30, n\_neighbors=25...  
 [CV 3/5; 1013/1980] END leaf\_size=30, n\_neighbors=23;;, score=0.557 total time=  
 0.0s  
 [CV 4/5; 1013/1980] START leaf\_size=30, n\_neighbors=23...  
 [CV 4/5; 1004/1980] END leaf\_size=30, n\_neighbors=14;;, score=0.584 total time=  
 0.0s  
 [CV 5/5; 1004/1980] START leaf\_size=30, n\_neighbors=14...  
 [CV 3/5; 1010/1980] END leaf\_size=30, n\_neighbors=20;;, score=0.553 total time=  
 0.0s  
 [CV 4/5; 1010/1980] START leaf\_size=30, n\_neighbors=20...  
 [CV 5/5; 1005/1980] END leaf\_size=30, n\_neighbors=15;;, score=0.615 total time=  
 0.0s  
 [CV 1/5; 1006/1980] START leaf\_size=30, n\_neighbors=16...  
 [CV 5/5; 1011/1980] END leaf\_size=30, n\_neighbors=21;;, score=0.621 total time=  
 0.0s  
 [CV 1/5; 1012/1980] START leaf\_size=30, n\_neighbors=22...  
 [CV 4/5; 1016/1980] END leaf\_size=30, n\_neighbors=26;;, score=0.593 total time=  
 0.0s  
 [CV 5/5; 1016/1980] START leaf\_size=30, n\_neighbors=26...  
 [CV 5/5; 1017/1980] END leaf\_size=30, n\_neighbors=27;;, score=0.630 total time=  
 0.0s  
 [CV 1/5; 1018/1980] START leaf\_size=30, n\_neighbors=28...  
 [CV 1/5; 1009/1980] END leaf\_size=30, n\_neighbors=19;;, score=0.637 total time=  
 0.0s  
 [CV 2/5; 1009/1980] START leaf\_size=30, n\_neighbors=19...  
 [CV 4/5; 1007/1980] END leaf\_size=30, n\_neighbors=17;;, score=0.580 total time=  
 0.0s  
 [CV 5/5; 1007/1980] START leaf\_size=30, n\_neighbors=17...  
 [CV 1/5; 1015/1980] END leaf\_size=30, n\_neighbors=25;;, score=0.646 total time=  
 0.0s  
 [CV 2/5; 1015/1980] START leaf\_size=30, n\_neighbors=25...  
 [CV 4/5; 1013/1980] END leaf\_size=30, n\_neighbors=23;;, score=0.600 total time=  
 0.0s  
 [CV 5/5; 1013/1980] START leaf\_size=30, n\_neighbors=23...  
 [CV 5/5; 1004/1980] END leaf\_size=30, n\_neighbors=14;;, score=0.606 total time=

0.0s  
[CV 3/5; 1019/1980] START leaf\_size=30, n\_neighbors=29...  
[CV 4/5; 1010/1980] END leaf\_size=30, n\_neighbors=20;; score=0.600 total time=0.0s  
[CV 5/5; 1010/1980] START leaf\_size=30, n\_neighbors=20...  
[CV 5/5; 1016/1980] END leaf\_size=30, n\_neighbors=26;; score=0.628 total time=0.0s  
[CV 1/5; 1017/1980] START leaf\_size=30, n\_neighbors=27...  
[CV 1/5; 1012/1980] END leaf\_size=30, n\_neighbors=22;; score=0.622 total time=0.0s  
[CV 1/5; 1018/1980] END leaf\_size=30, n\_neighbors=28;; score=0.650 total time=0.0s  
[CV 2/5; 1012/1980] START leaf\_size=30, n\_neighbors=22...  
  
[CV 2/5; 1018/1980] START leaf\_size=30, n\_neighbors=28...  
[CV 2/5; 1009/1980] END leaf\_size=30, n\_neighbors=19;; score=0.583 total time=0.0s  
[CV 3/5; 1009/1980] START leaf\_size=30, n\_neighbors=19...  
[CV 5/5; 1007/1980] END leaf\_size=30, n\_neighbors=17;; score=0.610 total time=0.0s  
[CV 1/5; 1008/1980] START leaf\_size=30, n\_neighbors=18...  
[CV 5/5; 1013/1980] END leaf\_size=30, n\_neighbors=23;; score=0.643 total time=0.0s  
[CV 1/5; 1014/1980] START leaf\_size=30, n\_neighbors=24...  
[CV 2/5; 1015/1980] END leaf\_size=30, n\_neighbors=25;; score=0.598 total time=0.0s  
[CV 3/5; 1015/1980] START leaf\_size=30, n\_neighbors=25...  
[CV 1/5; 1006/1980] END leaf\_size=30, n\_neighbors=16;; score=0.637 total time=0.0s  
[CV 2/5; 1006/1980] START leaf\_size=30, n\_neighbors=16...  
[CV 5/5; 1010/1980] END leaf\_size=30, n\_neighbors=20;; score=0.632 total time=0.0s  
[CV 1/5; 1011/1980] START leaf\_size=30, n\_neighbors=21...  
[CV 3/5; 1019/1980] END leaf\_size=30, n\_neighbors=29;; score=0.577 total time=0.0s  
[CV 4/5; 1019/1980] START leaf\_size=30, n\_neighbors=29...  
[CV 1/5; 1017/1980] END leaf\_size=30, n\_neighbors=27;; score=0.650 total time=0.0s  
[CV 2/5; 1017/1980] START leaf\_size=30, n\_neighbors=27...  
[CV 2/5; 1018/1980] END leaf\_size=30, n\_neighbors=28;; score=0.598 total time=0.0s  
[CV 3/5; 1018/1980] START leaf\_size=30, n\_neighbors=28...  
[CV 2/5; 1012/1980] END leaf\_size=30, n\_neighbors=22;; score=0.587 total time=0.0s  
[CV 3/5; 1012/1980] START leaf\_size=30, n\_neighbors=22...  
[CV 1/5; 1014/1980] END leaf\_size=30, n\_neighbors=24;; score=0.646 total time=0.0s  
[CV 2/5; 1014/1980] START leaf\_size=30, n\_neighbors=24...

[CV 3/5; 1009/1980] END leaf\_size=30, n\_neighbors=19;; score=0.551 total time=0.0s  
 [CV 4/5; 1009/1980] START leaf\_size=30, n\_neighbors=19...  
 [CV 1/5; 1008/1980] END leaf\_size=30, n\_neighbors=18;; score=0.635 total time=0.0s  
 [CV 3/5; 1015/1980] END leaf\_size=30, n\_neighbors=25;; score=0.557 total time=0.0s  
 [CV 4/5; 1015/1980] START leaf\_size=30, n\_neighbors=25...  
 [CV 1/5; 1011/1980] END leaf\_size=30, n\_neighbors=21;; score=0.626 total time=0.0s  
 [CV 2/5; 1011/1980] START leaf\_size=30, n\_neighbors=21...  
 [CV 4/5; 1019/1980] END leaf\_size=30, n\_neighbors=29;; score=0.600 total time=0.0s  
 [CV 5/5; 1019/1980] START leaf\_size=30, n\_neighbors=29...  
 [CV 2/5; 1006/1980] END leaf\_size=30, n\_neighbors=16;; score=0.575 total time=0.0s  
 [CV 3/5; 1006/1980] START leaf\_size=30, n\_neighbors=16...  
 [CV 1/5; 1021/1980] START leaf\_size=30, n\_neighbors=31...  
 [CV 2/5; 1017/1980] END leaf\_size=30, n\_neighbors=27;; score=0.594 total time=0.0s  
 [CV 3/5; 1017/1980] START leaf\_size=30, n\_neighbors=27...  
 [CV 3/5; 1018/1980] END leaf\_size=30, n\_neighbors=28;; score=0.568 total time=0.0s  
 [CV 4/5; 1018/1980] START leaf\_size=30, n\_neighbors=28...  
 [CV 3/5; 1012/1980] END leaf\_size=30, n\_neighbors=22;; score=0.555 total time=0.0s  
 [CV 4/5; 1012/1980] START leaf\_size=30, n\_neighbors=22...  
 [CV 2/5; 1014/1980] END leaf\_size=30, n\_neighbors=24;; score=0.596 total time=0.0s  
 [CV 3/5; 1014/1980] START leaf\_size=30, n\_neighbors=24...  
 [CV 4/5; 1015/1980] END leaf\_size=30, n\_neighbors=25;; score=0.587 total time=0.0s  
 [CV 5/5; 1015/1980] START leaf\_size=30, n\_neighbors=25...  
 [CV 4/5; 1009/1980] END leaf\_size=30, n\_neighbors=19;; score=0.589 total time=0.0s  
 [CV 2/5; 1011/1980] END leaf\_size=30, n\_neighbors=21;; score=0.581 total time=0.0s  
 [CV 4/5; 1022/1980] START leaf\_size=30, n\_neighbors=32...  
 [CV 3/5; 1017/1980] END leaf\_size=30, n\_neighbors=27;; score=0.568 total time=0.0s  
 [CV 4/5; 1017/1980] START leaf\_size=30, n\_neighbors=27...  
 [CV 2/5; 1024/1980] START leaf\_size=30, n\_neighbors=34...  
 [CV 5/5; 1019/1980] END leaf\_size=30, n\_neighbors=29;; score=0.639 total time=0.0s  
 [CV 1/5; 1020/1980] START leaf\_size=30, n\_neighbors=30...  
 [CV 3/5; 1006/1980] END leaf\_size=30, n\_neighbors=16;; score=0.557 total time=0.0s  
 [CV 1/5; 1021/1980] END leaf\_size=30, n\_neighbors=31;; score=0.644 total time=

0.0s  
 [CV 2/5; 1021/1980] START leaf\_size=30, n\_neighbors=31...  
 [CV 5/5; 1025/1980] START leaf\_size=30, n\_neighbors=35...  
 [CV 4/5; 1018/1980] END leaf\_size=30, n\_neighbors=28;; score=0.597 total time=  
 0.0s  
 [CV 5/5; 1018/1980] START leaf\_size=30, n\_neighbors=28...  
 [CV 3/5; 1014/1980] END leaf\_size=30, n\_neighbors=24;; score=0.564 total time=  
 0.0s  
 [CV 4/5; 1012/1980] END leaf\_size=30, n\_neighbors=22;; score=0.600 total time=  
 0.0s  
 [CV 5/5; 1012/1980] START leaf\_size=30, n\_neighbors=22...  
 [CV 3/5; 1027/1980] START leaf\_size=30, n\_neighbors=37...  
 [CV 5/5; 1015/1980] END leaf\_size=30, n\_neighbors=25;; score=0.647 total time=  
 0.0s  
 [CV 1/5; 1016/1980] START leaf\_size=30, n\_neighbors=26...  
 [CV 4/5; 1017/1980] END leaf\_size=30, n\_neighbors=27;; score=0.593 total time=  
 0.0s  
 [CV 1/5; 1029/1980] START leaf\_size=30, n\_neighbors=39...  
 [CV 4/5; 1022/1980] END leaf\_size=30, n\_neighbors=32;; score=0.593 total time=  
 0.0s  
 [CV 5/5; 1022/1980] START leaf\_size=30, n\_neighbors=32...  
 [CV 2/5; 1021/1980] END leaf\_size=30, n\_neighbors=31;; score=0.603 total time=  
 0.0s  
 [CV 3/5; 1021/1980] START leaf\_size=30, n\_neighbors=31...  
 [CV 1/5; 1020/1980] END leaf\_size=30, n\_neighbors=30;; score=0.639 total time=  
 0.0s  
 [CV 2/5; 1020/1980] START leaf\_size=30, n\_neighbors=30...  
 [CV 2/5; 1024/1980] END leaf\_size=30, n\_neighbors=34;; score=0.600 total time=  
 0.0s  
 [CV 3/5; 1024/1980] START leaf\_size=30, n\_neighbors=34...  
 [CV 5/5; 1012/1980] END leaf\_size=30, n\_neighbors=22;; score=0.628 total time=  
 0.0s  
 [CV 5/5; 1025/1980] END leaf\_size=30, n\_neighbors=35;; score=0.639 total time=  
 0.0s  
 [CV 1/5; 1026/1980] START leaf\_size=30, n\_neighbors=36...  
 [CV 5/5; 1018/1980] END leaf\_size=30, n\_neighbors=28;; score=0.641 total time=  
 0.0s  
 [CV 1/5; 1019/1980] START leaf\_size=30, n\_neighbors=29...  
 [CV 4/5; 1030/1980] START leaf\_size=30, n\_neighbors=40...  
 [CV 3/5; 1027/1980] END leaf\_size=30, n\_neighbors=37;; score=0.568 total time=  
 0.0s  
 [CV 4/5; 1027/1980] START leaf\_size=30, n\_neighbors=37...  
 [CV 1/5; 1016/1980] END leaf\_size=30, n\_neighbors=26;; score=0.639 total time=  
 0.0s  
 [CV 1/5; 1029/1980] END leaf\_size=30, n\_neighbors=39;; score=0.654 total time=  
 0.0s  
 [CV 2/5; 1029/1980] START leaf\_size=30, n\_neighbors=39...  
 [CV 2/5; 1032/1980] START leaf\_size=30, n\_neighbors=42...

[CV 5/5; 1022/1980] END leaf\_size=30, n\_neighbors=32;; score=0.628 total time=0.0s  
 [CV 1/5; 1023/1980] START leaf\_size=30, n\_neighbors=33...  
 [CV 3/5; 1021/1980] END leaf\_size=30, n\_neighbors=31;; score=0.570 total time=0.0s  
 [CV 4/5; 1021/1980] START leaf\_size=30, n\_neighbors=31...  
 [CV 3/5; 1024/1980] END leaf\_size=30, n\_neighbors=34;; score=0.577 total time=0.0s  
 [CV 4/5; 1024/1980] START leaf\_size=30, n\_neighbors=34...  
 [CV 1/5; 1019/1980] END leaf\_size=30, n\_neighbors=29;; score=0.646 total time=0.0s  
 [CV 2/5; 1019/1980] START leaf\_size=30, n\_neighbors=29...  
 [CV 4/5; 1027/1980] END leaf\_size=30, n\_neighbors=37;; score=0.610 total time=0.0s  
 [CV 5/5; 1027/1980] START leaf\_size=30, n\_neighbors=37...  
 [CV 4/5; 1030/1980] END leaf\_size=30, n\_neighbors=40;; score=0.595 total time=0.0s  
 [CV 2/5; 1020/1980] END leaf\_size=30, n\_neighbors=30;; score=0.607 total time=0.0s  
 [CV 5/5; 1030/1980] START leaf\_size=30, n\_neighbors=40...  
  
 [CV 3/5; 1020/1980] START leaf\_size=30, n\_neighbors=30...  
 [CV 1/5; 1026/1980] END leaf\_size=30, n\_neighbors=36;; score=0.644 total time=0.0s  
 [CV 2/5; 1026/1980] START leaf\_size=30, n\_neighbors=36...  
 [CV 2/5; 1029/1980] END leaf\_size=30, n\_neighbors=39;; score=0.609 total time=0.0s  
 [CV 3/5; 1029/1980] START leaf\_size=30, n\_neighbors=39...  
 [CV 2/5; 1032/1980] END leaf\_size=30, n\_neighbors=42;; score=0.618 total time=0.0s  
 [CV 3/5; 1032/1980] START leaf\_size=30, n\_neighbors=42...  
 [CV 4/5; 1024/1980] END leaf\_size=30, n\_neighbors=34;; score=0.597 total time=0.0s  
 [CV 5/5; 1024/1980] START leaf\_size=30, n\_neighbors=34...  
 [CV 4/5; 1021/1980] END leaf\_size=30, n\_neighbors=31;; score=0.595 total time=0.0s  
 [CV 1/5; 1023/1980] END leaf\_size=30, n\_neighbors=33;; score=0.646 total time= 0.0s  
  
 [CV 2/5; 1023/1980] START leaf\_size=30, n\_neighbors=33...  
 [CV 5/5; 1021/1980] START leaf\_size=30, n\_neighbors=31...  
 [CV 5/5; 1027/1980] END leaf\_size=30, n\_neighbors=37;; score=0.628 total time=0.0s  
 [CV 1/5; 1028/1980] START leaf\_size=30, n\_neighbors=38...  
 [CV 2/5; 1019/1980] END leaf\_size=30, n\_neighbors=29;; score=0.600 total time=0.0s  
 [CV 5/5; 1033/1980] START leaf\_size=30, n\_neighbors=43...  
 [CV 5/5; 1030/1980] END leaf\_size=30, n\_neighbors=40;; score=0.617 total time=0.0s

[CV 1/5; 1031/1980] START leaf\_size=30, n\_neighbors=41...  
 [CV 3/5; 1020/1980] END leaf\_size=30, n\_neighbors=30;; score=0.579 total time=0.0s  
 [CV 4/5; 1020/1980] START leaf\_size=30, n\_neighbors=30...  
 [CV 2/5; 1026/1980] END leaf\_size=30, n\_neighbors=36;; score=0.616 total time=0.0s  
 [CV 3/5; 1026/1980] START leaf\_size=30, n\_neighbors=36...  
 [CV 3/5; 1029/1980] END leaf\_size=30, n\_neighbors=39;; score=0.575 total time=0.0s  
 [CV 4/5; 1029/1980] START leaf\_size=30, n\_neighbors=39...  
 [CV 5/5; 1024/1980] END leaf\_size=30, n\_neighbors=34;; score=0.634 total time=0.0s  
 [CV 1/5; 1025/1980] START leaf\_size=30, n\_neighbors=35...  
 [CV 3/5; 1032/1980] END leaf\_size=30, n\_neighbors=42;; score=0.564 total time=0.0s  
 [CV 4/5; 1032/1980] START leaf\_size=30, n\_neighbors=42...  
 [CV 5/5; 1021/1980] END leaf\_size=30, n\_neighbors=31;; score=0.634 total time=0.0s  
 [CV 1/5; 1022/1980] START leaf\_size=30, n\_neighbors=32...  
 [CV 2/5; 1023/1980] END leaf\_size=30, n\_neighbors=33;; score=0.607 total time=0.0s  
 [CV 3/5; 1023/1980] START leaf\_size=30, n\_neighbors=33...  
 [CV 1/5; 1028/1980] END leaf\_size=30, n\_neighbors=38;; score=0.652 total time=0.0s  
 [CV 2/5; 1028/1980] START leaf\_size=30, n\_neighbors=38...  
 [CV 5/5; 1033/1980] END leaf\_size=30, n\_neighbors=43;; score=0.615 total time=0.0s  
 [CV 1/5; 1034/1980] START leaf\_size=30, n\_neighbors=44...  
 [CV 1/5; 1031/1980] END leaf\_size=30, n\_neighbors=41;; score=0.665 total time=0.0s  
 [CV 2/5; 1031/1980] START leaf\_size=30, n\_neighbors=41...  
 [CV 3/5; 1026/1980] END leaf\_size=30, n\_neighbors=36;; score=0.566 total time=0.0s  
 [CV 4/5; 1026/1980] START leaf\_size=30, n\_neighbors=36...  
 [CV 4/5; 1020/1980] END leaf\_size=30, n\_neighbors=30;; score=0.595 total time=0.0s  
 [CV 5/5; 1020/1980] START leaf\_size=30, n\_neighbors=30...  
 [CV 4/5; 1029/1980] END leaf\_size=30, n\_neighbors=39;; score=0.602 total time=0.0s  
 [CV 5/5; 1029/1980] START leaf\_size=30, n\_neighbors=39...  
 [CV 1/5; 1025/1980] END leaf\_size=30, n\_neighbors=35;; score=0.650 total time=0.0s  
 [CV 2/5; 1025/1980] START leaf\_size=30, n\_neighbors=35...  
 [CV 4/5; 1032/1980] END leaf\_size=30, n\_neighbors=42;; score=0.608 total time=0.0s  
 [CV 5/5; 1032/1980] START leaf\_size=30, n\_neighbors=42...  
 [CV 1/5; 1022/1980] END leaf\_size=30, n\_neighbors=32;; score=0.639 total time=0.0s

[CV 2/5; 1022/1980] START leaf\_size=30, n\_neighbors=32...  
 [CV 3/5; 1023/1980] END leaf\_size=30, n\_neighbors=33;; score=0.570 total time=0.0s  
 [CV 4/5; 1023/1980] START leaf\_size=30, n\_neighbors=33...  
 [CV 2/5; 1028/1980] END leaf\_size=30, n\_neighbors=38;; score=0.613 total time=0.0s  
 [CV 3/5; 1028/1980] START leaf\_size=30, n\_neighbors=38...  
 [CV 1/5; 1034/1980] END leaf\_size=30, n\_neighbors=44;; score=0.667 total time=0.0s  
 [CV 2/5; 1034/1980] START leaf\_size=30, n\_neighbors=44...  
 [CV 2/5; 1031/1980] END leaf\_size=30, n\_neighbors=41;; score=0.618 total time=0.0s  
 [CV 3/5; 1031/1980] START leaf\_size=30, n\_neighbors=41...  
 [CV 4/5; 1026/1980] END leaf\_size=30, n\_neighbors=36;; score=0.600 total time=0.0s  
 [CV 5/5; 1026/1980] START leaf\_size=30, n\_neighbors=36...  
 [CV 5/5; 1029/1980] END leaf\_size=30, n\_neighbors=39;; score=0.636 total time=0.0s  
 [CV 1/5; 1030/1980] START leaf\_size=30, n\_neighbors=40...  
 [CV 5/5; 1020/1980] END leaf\_size=30, n\_neighbors=30;; score=0.632 total time=0.0s  
 [CV 3/5; 1035/1980] START leaf\_size=30, n\_neighbors=45...  
 [CV 2/5; 1025/1980] END leaf\_size=30, n\_neighbors=35;; score=0.607 total time=0.0s  
 [CV 3/5; 1025/1980] START leaf\_size=30, n\_neighbors=35...  
 [CV 2/5; 1022/1980] END leaf\_size=30, n\_neighbors=32;; score=0.605 total time=0.0s  
 [CV 3/5; 1022/1980] START leaf\_size=30, n\_neighbors=32...  
 [CV 5/5; 1032/1980] END leaf\_size=30, n\_neighbors=42;; score=0.621 total time=0.0s  
 [CV 1/5; 1033/1980] START leaf\_size=30, n\_neighbors=43...  
 [CV 3/5; 1028/1980] END leaf\_size=30, n\_neighbors=38;; score=0.566 total time=0.0s  
 [CV 4/5; 1028/1980] START leaf\_size=30, n\_neighbors=38...  
 [CV 4/5; 1023/1980] END leaf\_size=30, n\_neighbors=33;; score=0.597 total time=0.0s  
 [CV 5/5; 1023/1980] START leaf\_size=30, n\_neighbors=33...  
 [CV 2/5; 1034/1980] END leaf\_size=30, n\_neighbors=44;; score=0.613 total time=0.0s  
 [CV 3/5; 1034/1980] START leaf\_size=30, n\_neighbors=44...  
 [CV 3/5; 1031/1980] END leaf\_size=30, n\_neighbors=41;; score=0.568 total time=0.0s  
 [CV 4/5; 1031/1980] START leaf\_size=30, n\_neighbors=41...  
 [CV 5/5; 1026/1980] END leaf\_size=30, n\_neighbors=36;; score=0.628 total time=0.0s  
 [CV 1/5; 1027/1980] START leaf\_size=30, n\_neighbors=37...  
 [CV 1/5; 1030/1980] END leaf\_size=30, n\_neighbors=40;; score=0.661 total time=0.0s



[CV 2/5; 1030/1980] START leaf\_size=30, n\_neighbors=40...  
 [CV 3/5; 1025/1980] END leaf\_size=30, n\_neighbors=35;; score=0.572 total time=0.0s  
 [CV 4/5; 1025/1980] START leaf\_size=30, n\_neighbors=35...  
 [CV 3/5; 1022/1980] END leaf\_size=30, n\_neighbors=32;; score=0.577 total time=0.0s  
 [CV 3/5; 1035/1980] END leaf\_size=30, n\_neighbors=45;; score=0.575 total time=0.0s  
 [CV 4/5; 1035/1980] START leaf\_size=30, n\_neighbors=45...  
 [CV 1/5; 1033/1980] END leaf\_size=30, n\_neighbors=43;; score=0.674 total time=0.0s  
 [CV 2/5; 1033/1980] START leaf\_size=30, n\_neighbors=43...  
 [CV 4/5; 1028/1980] END leaf\_size=30, n\_neighbors=38;; score=0.602 total time=0.0s  
 [CV 5/5; 1028/1980] START leaf\_size=30, n\_neighbors=38...  
 [CV 1/5; 1037/1980] START leaf\_size=30, n\_neighbors=47...  
 [CV 3/5; 1034/1980] END leaf\_size=30, n\_neighbors=44;; score=0.570 total time=0.0s  
 [CV 4/5; 1034/1980] START leaf\_size=30, n\_neighbors=44...  
 [CV 1/5; 1027/1980] END leaf\_size=30, n\_neighbors=37;; score=0.657 total time=0.0s  
 [CV 2/5; 1027/1980] START leaf\_size=30, n\_neighbors=37...  
 [CV 5/5; 1023/1980] END leaf\_size=30, n\_neighbors=33;; score=0.630 total time=0.0s  
 [CV 1/5; 1024/1980] START leaf\_size=30, n\_neighbors=34...  
 [CV 2/5; 1030/1980] END leaf\_size=30, n\_neighbors=40;; score=0.611 total time=0.0s  
 [CV 3/5; 1030/1980] START leaf\_size=30, n\_neighbors=40...  
 [CV 4/5; 1031/1980] END leaf\_size=30, n\_neighbors=41;; score=0.610 total time=0.0s  
 [CV 5/5; 1031/1980] START leaf\_size=30, n\_neighbors=41...  
 [CV 4/5; 1025/1980] END leaf\_size=30, n\_neighbors=35;; score=0.604 total time=0.0s  
 [CV 4/5; 1038/1980] START leaf\_size=30, n\_neighbors=48...  
 [CV 2/5; 1033/1980] END leaf\_size=30, n\_neighbors=43;; score=0.616 total time=0.0s  
 [CV 3/5; 1033/1980] START leaf\_size=30, n\_neighbors=43...  
 [CV 4/5; 1035/1980] END leaf\_size=30, n\_neighbors=45;; score=0.600 total time=0.0s  
 [CV 5/5; 1035/1980] START leaf\_size=30, n\_neighbors=45...  
 [CV 5/5; 1028/1980] END leaf\_size=30, n\_neighbors=38;; score=0.634 total time=0.0s  
 [CV 2/5; 1040/1980] START leaf\_size=30, n\_neighbors=50...  
 [CV 1/5; 1037/1980] END leaf\_size=30, n\_neighbors=47;; score=0.676 total time=0.0s  
 [CV 2/5; 1037/1980] START leaf\_size=30, n\_neighbors=47...  
 [CV 2/5; 1027/1980] END leaf\_size=30, n\_neighbors=37;; score=0.607 total time=0.0s

[CV 5/5; 1041/1980] START leaf\_size=30, n\_neighbors=51...  
 [CV 4/5; 1034/1980] END leaf\_size=30, n\_neighbors=44;; score=0.597 total time=0.0s  
 [CV 5/5; 1034/1980] START leaf\_size=30, n\_neighbors=44...  
 [CV 3/5; 1030/1980] END leaf\_size=30, n\_neighbors=40;; score=0.572 total time=0.0s  
 [CV 3/5; 1043/1980] START leaf\_size=30, n\_neighbors=53...  
 [CV 5/5; 1031/1980] END leaf\_size=30, n\_neighbors=41;; score=0.619 total time=0.0s  
 [CV 1/5; 1032/1980] START leaf\_size=30, n\_neighbors=42...  
 [CV 1/5; 1024/1980] END leaf\_size=30, n\_neighbors=34;; score=0.644 total time=0.0s  
 [CV 1/5; 1045/1980] START leaf\_size=30, n\_neighbors=55...  
 [CV 4/5; 1038/1980] END leaf\_size=30, n\_neighbors=48;; score=0.589 total time=0.0s  
 [CV 5/5; 1038/1980] START leaf\_size=30, n\_neighbors=48...  
 [CV 3/5; 1033/1980] END leaf\_size=30, n\_neighbors=43;; score=0.566 total time=0.0s  
 [CV 4/5; 1033/1980] START leaf\_size=30, n\_neighbors=43...  
 [CV 2/5; 1040/1980] END leaf\_size=30, n\_neighbors=50;; score=0.603 total time=0.0s  
 [CV 3/5; 1040/1980] START leaf\_size=30, n\_neighbors=50...  
 [CV 5/5; 1035/1980] END leaf\_size=30, n\_neighbors=45;; score=0.619 total time=0.0s  
 [CV 1/5; 1036/1980] START leaf\_size=30, n\_neighbors=46...  
 [CV 5/5; 1041/1980] END leaf\_size=30, n\_neighbors=51;; score=0.621 total time=0.0s  
 [CV 1/5; 1042/1980] START leaf\_size=30, n\_neighbors=52...  
 [CV 2/5; 1037/1980] END leaf\_size=30, n\_neighbors=47;; score=0.611 total time=0.0s  
 [CV 3/5; 1037/1980] START leaf\_size=30, n\_neighbors=47...  
 [CV 5/5; 1034/1980] END leaf\_size=30, n\_neighbors=44;; score=0.615 total time=0.0s  
 [CV 1/5; 1035/1980] START leaf\_size=30, n\_neighbors=45...  
 [CV 3/5; 1043/1980] END leaf\_size=30, n\_neighbors=53;; score=0.572 total time=0.0s  
 [CV 4/5; 1043/1980] START leaf\_size=30, n\_neighbors=53...  
 [CV 1/5; 1032/1980] END leaf\_size=30, n\_neighbors=42;; score=0.667 total time=0.0s  
 [CV 4/5; 1046/1980] START leaf\_size=30, n\_neighbors=56...  
 [CV 5/5; 1038/1980] END leaf\_size=30, n\_neighbors=48;; score=0.630 total time=0.0s  
 [CV 1/5; 1039/1980] START leaf\_size=30, n\_neighbors=49...  
 [CV 4/5; 1033/1980] END leaf\_size=30, n\_neighbors=43;; score=0.600 total time=0.0s  
 [CV 2/5; 1048/1980] START leaf\_size=30, n\_neighbors=58...  
 [CV 1/5; 1045/1980] END leaf\_size=30, n\_neighbors=55;; score=0.667 total time=0.0s

[CV 2/5; 1045/1980] START leaf\_size=30, n\_neighbors=55...  
 [CV 1/5; 1035/1980] END leaf\_size=30, n\_neighbors=45;; score=0.678 total time=0.0s  
 [CV 1/5; 1042/1980] END leaf\_size=30, n\_neighbors=52;; score=0.676 total time=0.0s  
 [CV 2/5; 1035/1980] START leaf\_size=30, n\_neighbors=45...  
 [CV 2/5; 1042/1980] START leaf\_size=30, n\_neighbors=52...  
 [CV 4/5; 1043/1980] END leaf\_size=30, n\_neighbors=53;; score=0.600 total time=0.0s  
 [CV 5/5; 1043/1980] START leaf\_size=30, n\_neighbors=53...  
 [CV 1/5; 1039/1980] END leaf\_size=30, n\_neighbors=49;; score=0.676 total time=0.0s  
 [CV 2/5; 1039/1980] START leaf\_size=30, n\_neighbors=49...  
 [CV 2/5; 1048/1980] END leaf\_size=30, n\_neighbors=58;; score=0.609 total time=0.0s  
 [CV 3/5; 1048/1980] START leaf\_size=30, n\_neighbors=58...  
 [CV 5/5; 1043/1980] END leaf\_size=30, n\_neighbors=53;; score=0.613 total time=0.0s  
 [CV 2/5; 1042/1980] END leaf\_size=30, n\_neighbors=52;; score=0.611 total time=0.0s  
 [CV 2/5; 1035/1980] END leaf\_size=30, n\_neighbors=45;; score=0.611 total time=0.0s  
 [CV 1/5; 1044/1980] START leaf\_size=30, n\_neighbors=54...  
  
 [CV 3/5; 1042/1980] START leaf\_size=30, n\_neighbors=52...  
 [CV 5/5; 1049/1980] START leaf\_size=30, n\_neighbors=59...  
 [CV 2/5; 1039/1980] END leaf\_size=30, n\_neighbors=49;; score=0.622 total time=0.0s  
 [CV 3/5; 1039/1980] START leaf\_size=30, n\_neighbors=49...  
 [CV 3/5; 1040/1980] END leaf\_size=30, n\_neighbors=50;; score=0.557 total time=0.1s  
 [CV 4/5; 1040/1980] START leaf\_size=30, n\_neighbors=50...  
 [CV 3/5; 1048/1980] END leaf\_size=30, n\_neighbors=58;; score=0.549 total time=0.0s  
 [CV 4/5; 1048/1980] START leaf\_size=30, n\_neighbors=58...  
 [CV 2/5; 1045/1980] END leaf\_size=30, n\_neighbors=55;; score=0.618 total time=0.0s  
 [CV 3/5; 1045/1980] START leaf\_size=30, n\_neighbors=55...  
 [CV 3/5; 1037/1980] END leaf\_size=30, n\_neighbors=47;; score=0.572 total time=0.1s  
 [CV 4/5; 1037/1980] START leaf\_size=30, n\_neighbors=47...  
 [CV 4/5; 1046/1980] END leaf\_size=30, n\_neighbors=56;; score=0.591 total time=0.1s  
 [CV 5/5; 1046/1980] START leaf\_size=30, n\_neighbors=56...  
 [CV 1/5; 1036/1980] END leaf\_size=30, n\_neighbors=46;; score=0.672 total time=0.1s  
 [CV 2/5; 1036/1980] START leaf\_size=30, n\_neighbors=46...  
 [CV 1/5; 1044/1980] END leaf\_size=30, n\_neighbors=54;; score=0.667 total time=

0.0s  
[CV 2/5; 1044/1980] START leaf\_size=30, n\_neighbors=54...  
[CV 5/5; 1049/1980] END leaf\_size=30, n\_neighbors=59;; score=0.610 total time=0.0s  
[CV 1/5; 1050/1980] START leaf\_size=30, n\_neighbors=60...  
[CV 3/5; 1042/1980] END leaf\_size=30, n\_neighbors=52;; score=0.566 total time=0.0s  
[CV 4/5; 1042/1980] START leaf\_size=30, n\_neighbors=52...  
[CV 4/5; 1048/1980] END leaf\_size=30, n\_neighbors=58;; score=0.595 total time=0.0s  
[CV 5/5; 1048/1980] START leaf\_size=30, n\_neighbors=58...  
[CV 4/5; 1037/1980] END leaf\_size=30, n\_neighbors=47;; score=0.589 total time=0.0s  
[CV 5/5; 1037/1980] START leaf\_size=30, n\_neighbors=47...  
[CV 3/5; 1045/1980] END leaf\_size=30, n\_neighbors=55;; score=0.564 total time=0.0s  
[CV 4/5; 1045/1980] START leaf\_size=30, n\_neighbors=55...  
[CV 3/5; 1039/1980] END leaf\_size=30, n\_neighbors=49;; score=0.568 total time=0.0s  
[CV 5/5; 1046/1980] END leaf\_size=30, n\_neighbors=56;; score=0.613 total time= 0.0s  
  
[CV 1/5; 1047/1980] START leaf\_size=30, n\_neighbors=57...  
[CV 4/5; 1039/1980] START leaf\_size=30, n\_neighbors=49...  
[CV 2/5; 1044/1980] END leaf\_size=30, n\_neighbors=54;; score=0.618 total time=0.0s  
[CV 3/5; 1044/1980] START leaf\_size=30, n\_neighbors=54...  
[CV 1/5; 1050/1980] END leaf\_size=30, n\_neighbors=60;; score=0.667 total time=0.0s  
[CV 2/5; 1036/1980] END leaf\_size=30, n\_neighbors=46;; score=0.616 total time=0.0s  
[CV 2/5; 1050/1980] START leaf\_size=30, n\_neighbors=60...  
[CV 3/5; 1036/1980] START leaf\_size=30, n\_neighbors=46...  
[CV 4/5; 1040/1980] END leaf\_size=30, n\_neighbors=50;; score=0.597 total time=0.1s  
[CV 5/5; 1040/1980] START leaf\_size=30, n\_neighbors=50...  
[CV 5/5; 1037/1980] END leaf\_size=30, n\_neighbors=47;; score=0.623 total time=0.0s  
[CV 1/5; 1038/1980] START leaf\_size=30, n\_neighbors=48...  
[CV 4/5; 1042/1980] END leaf\_size=30, n\_neighbors=52;; score=0.597 total time=0.0s  
[CV 5/5; 1042/1980] START leaf\_size=30, n\_neighbors=52...  
[CV 5/5; 1048/1980] END leaf\_size=30, n\_neighbors=58;; score=0.610 total time=0.0s  
[CV 1/5; 1049/1980] START leaf\_size=30, n\_neighbors=59...  
[CV 4/5; 1039/1980] END leaf\_size=30, n\_neighbors=49;; score=0.593 total time=0.0s  
[CV 5/5; 1039/1980] START leaf\_size=30, n\_neighbors=49...  
[CV 3/5; 1044/1980] END leaf\_size=30, n\_neighbors=54;; score=0.562 total time=

0.0s  
 [CV 4/5; 1044/1980] START leaf\_size=30, n\_neighbors=54...  
 [CV 3/5; 1036/1980] END leaf\_size=30, n\_neighbors=46;; score=0.572 total time=  
 0.0s  
 [CV 4/5; 1036/1980] START leaf\_size=30, n\_neighbors=46...  
 [CV 2/5; 1050/1980] END leaf\_size=30, n\_neighbors=60;; score=0.605 total time=  
 0.0s  
 [CV 3/5; 1050/1980] START leaf\_size=30, n\_neighbors=60...  
 [CV 5/5; 1040/1980] END leaf\_size=30, n\_neighbors=50;; score=0.619 total time=  
 0.0s  
 [CV 1/5; 1041/1980] START leaf\_size=30, n\_neighbors=51...  
 [CV 1/5; 1047/1980] END leaf\_size=30, n\_neighbors=57;; score=0.665 total time=  
 0.0s  
 [CV 2/5; 1047/1980] START leaf\_size=30, n\_neighbors=57...  
 [CV 4/5; 1045/1980] END leaf\_size=30, n\_neighbors=55;; score=0.593 total time=  
 0.0s  
 [CV 5/5; 1045/1980] START leaf\_size=30, n\_neighbors=55...  
 [CV 1/5; 1038/1980] END leaf\_size=30, n\_neighbors=48;; score=0.672 total time=  
 0.0s  
 [CV 2/5; 1038/1980] START leaf\_size=30, n\_neighbors=48...  
 [CV 5/5; 1039/1980] END leaf\_size=30, n\_neighbors=49;; score=0.623 total time=  
 0.0s  
 [CV 1/5; 1040/1980] START leaf\_size=30, n\_neighbors=50...  
 [CV 5/5; 1042/1980] END leaf\_size=30, n\_neighbors=52;; score=0.619 total time=  
 0.0s  
 [CV 1/5; 1043/1980] START leaf\_size=30, n\_neighbors=53...  
 [CV 1/5; 1049/1980] END leaf\_size=30, n\_neighbors=59;; score=0.670 total time=  
 0.0s  
 [CV 2/5; 1049/1980] START leaf\_size=30, n\_neighbors=59...  
 [CV 4/5; 1044/1980] END leaf\_size=30, n\_neighbors=54;; score=0.595 total time=  
 0.0s  
 [CV 5/5; 1044/1980] START leaf\_size=30, n\_neighbors=54...  
 [CV 4/5; 1036/1980] END leaf\_size=30, n\_neighbors=46;; score=0.597 total time=  
 0.0s  
 [CV 5/5; 1036/1980] START leaf\_size=30, n\_neighbors=46...  
 [CV 3/5; 1050/1980] END leaf\_size=30, n\_neighbors=60;; score=0.553 total time=  
 0.0s  
 [CV 4/5; 1050/1980] START leaf\_size=30, n\_neighbors=60...  
 [CV 1/5; 1041/1980] END leaf\_size=30, n\_neighbors=51;; score=0.680 total time=  
 0.0s  
 [CV 2/5; 1041/1980] START leaf\_size=30, n\_neighbors=51...  
 [CV 1/5; 1040/1980] END leaf\_size=30, n\_neighbors=50;; score=0.678 total time=  
 0.0s  
 [CV 2/5; 1038/1980] END leaf\_size=30, n\_neighbors=48;; score=0.609 total time=  
 0.0s  
 [CV 3/5; 1038/1980] START leaf\_size=30, n\_neighbors=48...  
 [CV 3/5; 1051/1980] START leaf\_size=30, n\_neighbors=61...  
 [CV 2/5; 1047/1980] END leaf\_size=30, n\_neighbors=57;; score=0.616 total time=

0.0s  
 [CV 3/5; 1047/1980] START leaf\_size=30, n\_neighbors=57...  
 [CV 1/5; 1043/1980] END leaf\_size=30, n\_neighbors=53;; score=0.678 total time=  
 0.0s  
 [CV 2/5; 1043/1980] START leaf\_size=30, n\_neighbors=53...  
 [CV 5/5; 1045/1980] END leaf\_size=30, n\_neighbors=55;; score=0.608 total time=  
 0.0s  
 [CV 1/5; 1046/1980] START leaf\_size=30, n\_neighbors=56...  
 [CV 2/5; 1049/1980] END leaf\_size=30, n\_neighbors=59;; score=0.609 total time=  
 0.0s  
 [CV 3/5; 1049/1980] START leaf\_size=30, n\_neighbors=59...  
 [CV 5/5; 1044/1980] END leaf\_size=30, n\_neighbors=54;; score=0.608 total time=  
 0.0s  
 [CV 4/5; 1050/1980] END leaf\_size=30, n\_neighbors=60;; score=0.602 total time=  
 0.0s  
 [CV 5/5; 1050/1980] START leaf\_size=30, n\_neighbors=60...  
 [CV 1/5; 1053/1980] START leaf\_size=30, n\_neighbors=63...  
 [CV 2/5; 1041/1980] END leaf\_size=30, n\_neighbors=51;; score=0.618 total time=  
 0.0s  
 [CV 3/5; 1041/1980] START leaf\_size=30, n\_neighbors=51...  
 [CV 5/5; 1036/1980] END leaf\_size=30, n\_neighbors=46;; score=0.619 total time=  
 0.0s  
 [CV 3/5; 1051/1980] END leaf\_size=30, n\_neighbors=61;; score=0.557 total time=  
 0.0s  
 [CV 4/5; 1051/1980] START leaf\_size=30, n\_neighbors=61...  
 [CV 3/5; 1038/1980] END leaf\_size=30, n\_neighbors=48;; score=0.562 total time=  
 0.0s  
 [CV 4/5; 1054/1980] START leaf\_size=30, n\_neighbors=64...  
 [CV 2/5; 1043/1980] END leaf\_size=30, n\_neighbors=53;; score=0.611 total time=  
 0.0s  
 [CV 2/5; 1056/1980] START leaf\_size=30, n\_neighbors=66...  
 [CV 3/5; 1047/1980] END leaf\_size=30, n\_neighbors=57;; score=0.559 total time=  
 0.0s  
 [CV 4/5; 1047/1980] START leaf\_size=30, n\_neighbors=57...  
 [CV 5/5; 1057/1980] START leaf\_size=30, n\_neighbors=67...  
 [CV 3/5; 1049/1980] END leaf\_size=30, n\_neighbors=59;; score=0.553 total time=  
 0.0s  
 [CV 4/5; 1049/1980] START leaf\_size=30, n\_neighbors=59...  
 [CV 5/5; 1050/1980] END leaf\_size=30, n\_neighbors=60;; score=0.604 total time=  
 0.0s  
 [CV 1/5; 1051/1980] START leaf\_size=30, n\_neighbors=61...  
 [CV 1/5; 1046/1980] END leaf\_size=30, n\_neighbors=56;; score=0.670 total time=  
 0.0s  
 [CV 2/5; 1046/1980] START leaf\_size=30, n\_neighbors=56...  
 [CV 1/5; 1053/1980] END leaf\_size=30, n\_neighbors=63;; score=0.665 total time=  
 0.0s  
 [CV 2/5; 1053/1980] START leaf\_size=30, n\_neighbors=63...  
 [CV 3/5; 1041/1980] END leaf\_size=30, n\_neighbors=51;; score=0.566 total time=

0.0s  
 [CV 4/5; 1041/1980] START leaf\_size=30, n\_neighbors=51...  
 [CV 4/5; 1051/1980] END leaf\_size=30, n\_neighbors=61;; score=0.604 total time=  
 0.0s  
 [CV 4/5; 1054/1980] END leaf\_size=30, n\_neighbors=64;; score=0.593 total time=  
 0.0s[CV 5/5; 1051/1980] START leaf\_size=30,  
 n\_neighbors=61...  
  
 [CV 5/5; 1054/1980] START leaf\_size=30, n\_neighbors=64...  
 [CV 4/5; 1047/1980] END leaf\_size=30, n\_neighbors=57;; score=0.597 total time=  
 0.0s  
 [CV 5/5; 1047/1980] START leaf\_size=30, n\_neighbors=57...  
 [CV 4/5; 1049/1980] END leaf\_size=30, n\_neighbors=59;; score=0.604 total time=  
 0.0s  
 [CV 5/5; 1057/1980] END leaf\_size=30, n\_neighbors=67;; score=0.613 total time=  
 0.0s  
 [CV 1/5; 1058/1980] START leaf\_size=30, n\_neighbors=68...  
 [CV 3/5; 1059/1980] START leaf\_size=30, n\_neighbors=69...  
 [CV 1/5; 1051/1980] END leaf\_size=30, n\_neighbors=61;; score=0.665 total time=  
 0.0s  
 [CV 2/5; 1051/1980] START leaf\_size=30, n\_neighbors=61...  
 [CV 2/5; 1053/1980] END leaf\_size=30, n\_neighbors=63;; score=0.609 total time=  
 0.0s  
 [CV 3/5; 1053/1980] START leaf\_size=30, n\_neighbors=63...  
 [CV 5/5; 1054/1980] END leaf\_size=30, n\_neighbors=64;; score=0.613 total time=  
 0.0s  
 [CV 1/5; 1055/1980] START leaf\_size=30, n\_neighbors=65...  
 [CV 4/5; 1041/1980] END leaf\_size=30, n\_neighbors=51;; score=0.602 total time=  
 0.0s  
 [CV 5/5; 1051/1980] END leaf\_size=30, n\_neighbors=61;; score=0.606 total time=  
 0.0s  
 [CV 1/5; 1052/1980] START leaf\_size=30, n\_neighbors=62...  
 [CV 1/5; 1061/1980] START leaf\_size=30, n\_neighbors=71...  
 [CV 2/5; 1046/1980] END leaf\_size=30, n\_neighbors=56;; score=0.609 total time=  
 0.0s  
 [CV 3/5; 1046/1980] START leaf\_size=30, n\_neighbors=56...  
 [CV 2/5; 1056/1980] END leaf\_size=30, n\_neighbors=66;; score=0.609 total time=  
 0.1s  
 [CV 3/5; 1056/1980] START leaf\_size=30, n\_neighbors=66...  
 [CV 5/5; 1047/1980] END leaf\_size=30, n\_neighbors=57;; score=0.610 total time=  
 0.0s  
 [CV 1/5; 1048/1980] START leaf\_size=30, n\_neighbors=58...  
 [CV 2/5; 1051/1980] END leaf\_size=30, n\_neighbors=61;; score=0.603 total time=  
 0.0s  
 [CV 3/5; 1059/1980] END leaf\_size=30, n\_neighbors=69;; score=0.568 total time=  
 0.0s  
 [CV 4/5; 1059/1980] START leaf\_size=30, n\_neighbors=69...  
 [CV 4/5; 1062/1980] START leaf\_size=30, n\_neighbors=72...

[CV 1/5; 1058/1980] END leaf\_size=30, n\_neighbors=68;; score=0.667 total time=0.0s  
 [CV 2/5; 1058/1980] START leaf\_size=30, n\_neighbors=68..  
 [CV 3/5; 1053/1980] END leaf\_size=30, n\_neighbors=63;; score=0.562 total time=0.0s  
 [CV 4/5; 1053/1980] START leaf\_size=30, n\_neighbors=63..  
 [CV 1/5; 1055/1980] END leaf\_size=30, n\_neighbors=65;; score=0.663 total time=0.0s  
 [CV 2/5; 1055/1980] START leaf\_size=30, n\_neighbors=65..  
 [CV 1/5; 1052/1980] END leaf\_size=30, n\_neighbors=62;; score=0.663 total time=0.0s  
 [CV 2/5; 1052/1980] START leaf\_size=30, n\_neighbors=62..  
 [CV 1/5; 1061/1980] END leaf\_size=30, n\_neighbors=71;; score=0.670 total time=0.0s  
 [CV 2/5; 1061/1980] START leaf\_size=30, n\_neighbors=71..  
 [CV 4/5; 1062/1980] END leaf\_size=30, n\_neighbors=72;; score=0.593 total time=0.0s  
 [CV 5/5; 1062/1980] START leaf\_size=30, n\_neighbors=72..  
 [CV 4/5; 1059/1980] END leaf\_size=30, n\_neighbors=69;; score=0.582 total time=0.0s  
 [CV 5/5; 1059/1980] START leaf\_size=30, n\_neighbors=69..  
 [CV 3/5; 1046/1980] END leaf\_size=30, n\_neighbors=56;; score=0.551 total time=0.0s  
 [CV 3/5; 1056/1980] END leaf\_size=30, n\_neighbors=66;; score=0.566 total time=0.0s  
 [CV 4/5; 1056/1980] START leaf\_size=30, n\_neighbors=66..  
 [CV 2/5; 1058/1980] END leaf\_size=30, n\_neighbors=68;; score=0.609 total time=0.0s  
 [CV 3/5; 1058/1980] START leaf\_size=30, n\_neighbors=68..  
 [CV 2/5; 1064/1980] START leaf\_size=30, n\_neighbors=74..  
 [CV 4/5; 1053/1980] END leaf\_size=30, n\_neighbors=63;; score=0.604 total time=0.0s  
 [CV 5/5; 1053/1980] START leaf\_size=30, n\_neighbors=63..  
 [CV 2/5; 1055/1980] END leaf\_size=30, n\_neighbors=65;; score=0.616 total time=0.0s  
 [CV 2/5; 1052/1980] END leaf\_size=30, n\_neighbors=62;; score=0.603 total time=0.0s  
 [CV 3/5; 1055/1980] START leaf\_size=30, n\_neighbors=65..  
 [CV 3/5; 1052/1980] START leaf\_size=30, n\_neighbors=62..  
 [CV 1/5; 1048/1980] END leaf\_size=30, n\_neighbors=58;; score=0.665 total time=0.0s  
 [CV 5/5; 1065/1980] START leaf\_size=30, n\_neighbors=75..  
 [CV 2/5; 1061/1980] END leaf\_size=30, n\_neighbors=71;; score=0.616 total time=0.0s  
 [CV 3/5; 1061/1980] START leaf\_size=30, n\_neighbors=71..  
 [CV 5/5; 1062/1980] END leaf\_size=30, n\_neighbors=72;; score=0.613 total time=0.0s  
 [CV 1/5; 1063/1980] START leaf\_size=30, n\_neighbors=73...



[CV 5/5; 1059/1980] END leaf\_size=30, n\_neighbors=69;; score=0.621 total time=0.0s  
 [CV 1/5; 1060/1980] START leaf\_size=30, n\_neighbors=70...  
 [CV 5/5; 1053/1980] END leaf\_size=30, n\_neighbors=63;; score=0.615 total time=0.0s  
 [CV 1/5; 1054/1980] START leaf\_size=30, n\_neighbors=64...  
 [CV 3/5; 1058/1980] END leaf\_size=30, n\_neighbors=68;; score=0.566 total time=0.0s  
 [CV 4/5; 1058/1980] START leaf\_size=30, n\_neighbors=68...  
 [CV 3/5; 1055/1980] END leaf\_size=30, n\_neighbors=65;; score=0.566 total time=0.0s  
 [CV 4/5; 1055/1980] START leaf\_size=30, n\_neighbors=65...  
 [CV 4/5; 1056/1980] END leaf\_size=30, n\_neighbors=66;; score=0.574 total time=0.0s  
 [CV 5/5; 1056/1980] START leaf\_size=30, n\_neighbors=66...  
 [CV 3/5; 1061/1980] END leaf\_size=30, n\_neighbors=71;; score=0.562 total time=0.0s  
 [CV 4/5; 1061/1980] START leaf\_size=30, n\_neighbors=71...  
 [CV 2/5; 1064/1980] END leaf\_size=30, n\_neighbors=74;; score=0.607 total time=0.0s  
 [CV 3/5; 1064/1980] START leaf\_size=30, n\_neighbors=74...  
 [CV 5/5; 1065/1980] END leaf\_size=30, n\_neighbors=75;; score=0.632 total time=0.0s  
 [CV 1/5; 1066/1980] START leaf\_size=30, n\_neighbors=76...  
 [CV 3/5; 1052/1980] END leaf\_size=30, n\_neighbors=62;; score=0.555 total time=0.0s  
 [CV 4/5; 1052/1980] START leaf\_size=30, n\_neighbors=62...  
 [CV 1/5; 1063/1980] END leaf\_size=30, n\_neighbors=73;; score=0.663 total time=0.0s  
 [CV 2/5; 1063/1980] START leaf\_size=30, n\_neighbors=73...  
 [CV 4/5; 1058/1980] END leaf\_size=30, n\_neighbors=68;; score=0.576 total time=0.0s  
 [CV 5/5; 1058/1980] START leaf\_size=30, n\_neighbors=68...  
 [CV 1/5; 1054/1980] END leaf\_size=30, n\_neighbors=64;; score=0.663 total time=0.0s  
 [CV 2/5; 1054/1980] START leaf\_size=30, n\_neighbors=64...  
 [CV 4/5; 1055/1980] END leaf\_size=30, n\_neighbors=65;; score=0.591 total time=0.0s  
 [CV 5/5; 1055/1980] START leaf\_size=30, n\_neighbors=65...  
 [CV 1/5; 1060/1980] END leaf\_size=30, n\_neighbors=70;; score=0.663 total time=0.0s  
 [CV 2/5; 1060/1980] START leaf\_size=30, n\_neighbors=70...  
 [CV 5/5; 1056/1980] END leaf\_size=30, n\_neighbors=66;; score=0.613 total time=0.0s  
 [CV 1/5; 1057/1980] START leaf\_size=30, n\_neighbors=67...  
 [CV 4/5; 1061/1980] END leaf\_size=30, n\_neighbors=71;; score=0.587 total time=0.0s  
 [CV 5/5; 1061/1980] START leaf\_size=30, n\_neighbors=71...

[CV 1/5; 1066/1980] END leaf\_size=30, n\_neighbors=76;; score=0.667 total time=0.0s  
 [CV 2/5; 1066/1980] START leaf\_size=30, n\_neighbors=76...  
 [CV 4/5; 1052/1980] END leaf\_size=30, n\_neighbors=62;; score=0.600 total time=0.0s  
 [CV 5/5; 1052/1980] START leaf\_size=30, n\_neighbors=62...  
 [CV 2/5; 1063/1980] END leaf\_size=30, n\_neighbors=73;; score=0.605 total time=0.0s  
 [CV 3/5; 1063/1980] START leaf\_size=30, n\_neighbors=73...  
 [CV 5/5; 1058/1980] END leaf\_size=30, n\_neighbors=68;; score=0.615 total time=0.0s  
 [CV 1/5; 1059/1980] START leaf\_size=30, n\_neighbors=69...  
 [CV 2/5; 1054/1980] END leaf\_size=30, n\_neighbors=64;; score=0.609 total time=0.0s  
 [CV 3/5; 1054/1980] START leaf\_size=30, n\_neighbors=64...  
 [CV 3/5; 1064/1980] END leaf\_size=30, n\_neighbors=74;; score=0.557 total time=0.0s  
 [CV 4/5; 1064/1980] START leaf\_size=30, n\_neighbors=74...  
 [CV 5/5; 1055/1980] END leaf\_size=30, n\_neighbors=65;; score=0.621 total time=0.0s  
 [CV 1/5; 1056/1980] START leaf\_size=30, n\_neighbors=66...  
 [CV 1/5; 1057/1980] END leaf\_size=30, n\_neighbors=67;; score=0.663 total time=0.0s  
 [CV 2/5; 1057/1980] START leaf\_size=30, n\_neighbors=67...  
 [CV 5/5; 1061/1980] END leaf\_size=30, n\_neighbors=71;; score=0.613 total time=0.0s  
 [CV 1/5; 1062/1980] START leaf\_size=30, n\_neighbors=72...  
 [CV 2/5; 1066/1980] END leaf\_size=30, n\_neighbors=76;; score=0.603 total time=0.0s  
 [CV 3/5; 1066/1980] START leaf\_size=30, n\_neighbors=76...  
 [CV 3/5; 1063/1980] END leaf\_size=30, n\_neighbors=73;; score=0.566 total time=0.0s  
 [CV 4/5; 1063/1980] START leaf\_size=30,  
 n\_neighbors=73...[CV 3/5; 1054/1980] END leaf\_size=30,  
 n\_neighbors=64;; score=0.562 total time= 0.0s  
  
 [CV 3/5; 1067/1980] START leaf\_size=30, n\_neighbors=77...  
 [CV 1/5; 1059/1980] END leaf\_size=30, n\_neighbors=69;; score=0.663 total time=0.0s  
 [CV 2/5; 1059/1980] START leaf\_size=30, n\_neighbors=69...  
 [CV 2/5; 1060/1980] END leaf\_size=30, n\_neighbors=70;; score=0.607 total time=0.1s  
 [CV 3/5; 1060/1980] START leaf\_size=30, n\_neighbors=70...  
 [CV 1/5; 1056/1980] END leaf\_size=30, n\_neighbors=66;; score=0.663 total time=0.0s  
 [CV 1/5; 1069/1980] START leaf\_size=30, n\_neighbors=79...  
 [CV 4/5; 1064/1980] END leaf\_size=30, n\_neighbors=74;; score=0.591 total time=0.0s

[CV 5/5; 1064/1980] START leaf\_size=30, n\_neighbors=74...  
 [CV 1/5; 1062/1980] END leaf\_size=30, n\_neighbors=72;; score=0.663 total time=0.0s  
 [CV 2/5; 1062/1980] START leaf\_size=30, n\_neighbors=72...  
 [CV 3/5; 1066/1980] END leaf\_size=30, n\_neighbors=76;; score=0.557 total time=0.0s  
 [CV 4/5; 1066/1980] START leaf\_size=30, n\_neighbors=76...  
 [CV 5/5; 1052/1980] END leaf\_size=30, n\_neighbors=62;; score=0.610 total time=0.1s  
 [CV 2/5; 1057/1980] END leaf\_size=30, n\_neighbors=67;; score=0.611 total time=0.0s  
 [CV 3/5; 1057/1980] START leaf\_size=30, n\_neighbors=67...  
 [CV 4/5; 1063/1980] END leaf\_size=30, n\_neighbors=73;; score=0.591 total time=0.0s  
 [CV 5/5; 1063/1980] START leaf\_size=30, n\_neighbors=73...  
  
 [CV 3/5; 1067/1980] END leaf\_size=30, n\_neighbors=77;; score=0.562 total time=0.0s  
 [CV 4/5; 1067/1980] START leaf\_size=30, n\_neighbors=77...  
 [CV 4/5; 1070/1980] START leaf\_size=30, n\_neighbors=80...  
 [CV 2/5; 1059/1980] END leaf\_size=30, n\_neighbors=69;; score=0.609 total time=0.0s  
 [CV 3/5; 1060/1980] END leaf\_size=30, n\_neighbors=70;; score=0.559 total time=0.0s  
 [CV 4/5; 1060/1980] START leaf\_size=30, n\_neighbors=70...  
 [CV 2/5; 1072/1980] START leaf\_size=30, n\_neighbors=82...  
 [CV 1/5; 1069/1980] END leaf\_size=30, n\_neighbors=79;; score=0.659 total time=0.0s  
 [CV 2/5; 1069/1980] START leaf\_size=30, n\_neighbors=79...  
 [CV 4/5; 1066/1980] END leaf\_size=30, n\_neighbors=76;; score=0.578 total time=0.0s  
 [CV 5/5; 1066/1980] START leaf\_size=30, n\_neighbors=76...  
 [CV 5/5; 1063/1980] END leaf\_size=30, n\_neighbors=73;; score=0.628 total time=0.0s  
 [CV 1/5; 1064/1980] START leaf\_size=30, n\_neighbors=74...  
 [CV 4/5; 1067/1980] END leaf\_size=30, n\_neighbors=77;; score=0.580 total time=0.0s  
 [CV 5/5; 1067/1980] START leaf\_size=30, n\_neighbors=77...  
 [CV 3/5; 1057/1980] END leaf\_size=30, n\_neighbors=67;; score=0.564 total time=0.0s  
 [CV 4/5; 1057/1980] START leaf\_size=30, n\_neighbors=67...  
 [CV 2/5; 1062/1980] END leaf\_size=30, n\_neighbors=72;; score=0.607 total time=0.0s  
 [CV 3/5; 1062/1980] START leaf\_size=30, n\_neighbors=72...  
 [CV 5/5; 1064/1980] END leaf\_size=30, n\_neighbors=74;; score=0.623 total time=0.1s  
 [CV 1/5; 1065/1980] START leaf\_size=30, n\_neighbors=75...  
 [CV 4/5; 1060/1980] END leaf\_size=30, n\_neighbors=70;; score=0.589 total time=0.0s

[CV 5/5; 1060/1980] START leaf\_size=30, n\_neighbors=70...  
 [CV 2/5; 1069/1980] END leaf\_size=30, n\_neighbors=79;; score=0.598 total time=0.0s  
 [CV 3/5; 1069/1980] START leaf\_size=30, n\_neighbors=79...  
 [CV 4/5; 1070/1980] END leaf\_size=30, n\_neighbors=80;; score=0.584 total time=0.1s  
 [CV 5/5; 1070/1980] START leaf\_size=30, n\_neighbors=80...  
 [CV 2/5; 1072/1980] END leaf\_size=30, n\_neighbors=82;; score=0.600 total time=0.0s  
 [CV 3/5; 1072/1980] START leaf\_size=30, n\_neighbors=82...  
 [CV 5/5; 1066/1980] END leaf\_size=30, n\_neighbors=76;; score=0.621 total time=0.0s  
 [CV 1/5; 1067/1980] START leaf\_size=30, n\_neighbors=77...  
 [CV 1/5; 1064/1980] END leaf\_size=30, n\_neighbors=74;; score=0.661 total time=0.0s  
 [CV 5/5; 1073/1980] START leaf\_size=30, n\_neighbors=83...  
 [CV 5/5; 1067/1980] END leaf\_size=30, n\_neighbors=77;; score=0.617 total time=0.0s  
 [CV 1/5; 1068/1980] START leaf\_size=30, n\_neighbors=78...  
 [CV 4/5; 1057/1980] END leaf\_size=30, n\_neighbors=67;; score=0.587 total time=0.0s  
 [CV 5/5; 1060/1980] END leaf\_size=30, n\_neighbors=70;; score=0.606 total time=0.0s  
 [CV 3/5; 1062/1980] END leaf\_size=30, n\_neighbors=72;; score=0.562 total time=0.0s  
 [CV 3/5; 1075/1980] START leaf\_size=30, n\_neighbors=85...  
 [CV 1/5; 1077/1980] START leaf\_size=30, n\_neighbors=87...  
 [CV 3/5; 1069/1980] END leaf\_size=30, n\_neighbors=79;; score=0.557 total time=0.0s  
 [CV 4/5; 1069/1980] START leaf\_size=30, n\_neighbors=79...  
 [CV 5/5; 1070/1980] END leaf\_size=30, n\_neighbors=80;; score=0.628 total time=0.0s  
 [CV 1/5; 1071/1980] START leaf\_size=30, n\_neighbors=81...  
 [CV 1/5; 1065/1980] END leaf\_size=30, n\_neighbors=75;; score=0.667 total time=0.0s  
 [CV 2/5; 1065/1980] START leaf\_size=30, n\_neighbors=75...  
 [CV 3/5; 1072/1980] END leaf\_size=30, n\_neighbors=82;; score=0.566 total time=0.0s  
 [CV 4/5; 1072/1980] START leaf\_size=30, n\_neighbors=82...  
 [CV 4/5; 1078/1980] START leaf\_size=30, n\_neighbors=88...  
 [CV 1/5; 1067/1980] END leaf\_size=30, n\_neighbors=77;; score=0.667 total time=0.0s  
 [CV 2/5; 1067/1980] START leaf\_size=30, n\_neighbors=77...  
 [CV 5/5; 1073/1980] END leaf\_size=30, n\_neighbors=83;; score=0.619 total time=0.0s  
 [CV 1/5; 1074/1980] START leaf\_size=30, n\_neighbors=84...  
 [CV 1/5; 1068/1980] END leaf\_size=30, n\_neighbors=78;; score=0.659 total time=0.0s

[CV 2/5; 1068/1980] START leaf\_size=30, n\_neighbors=78...  
 [CV 3/5; 1075/1980] END leaf\_size=30, n\_neighbors=85;; score=0.557 total time=0.0s  
 [CV 4/5; 1075/1980] START leaf\_size=30, n\_neighbors=85...  
 [CV 4/5; 1069/1980] END leaf\_size=30, n\_neighbors=79;; score=0.584 total time=0.0s  
 [CV 5/5; 1069/1980] START leaf\_size=30, n\_neighbors=79...  
 [CV 1/5; 1077/1980] END leaf\_size=30, n\_neighbors=87;; score=0.650 total time=0.0s  
 [CV 2/5; 1077/1980] START leaf\_size=30, n\_neighbors=87...  
 [CV 1/5; 1071/1980] END leaf\_size=30, n\_neighbors=81;; score=0.659 total time=0.0s  
 [CV 2/5; 1071/1980] START leaf\_size=30, n\_neighbors=81...  
 [CV 4/5; 1072/1980] END leaf\_size=30, n\_neighbors=82;; score=0.587 total time=0.0s  
 [CV 5/5; 1072/1980] START leaf\_size=30, n\_neighbors=82...  
 [CV 4/5; 1078/1980] END leaf\_size=30, n\_neighbors=88;; score=0.578 total time=0.0s  
 [CV 5/5; 1078/1980] START leaf\_size=30, n\_neighbors=88...  
 [CV 2/5; 1068/1980] END leaf\_size=30, n\_neighbors=78;; score=0.603 total time=0.0s  
 [CV 3/5; 1068/1980] START leaf\_size=30, n\_neighbors=78...  
 [CV 1/5; 1074/1980] END leaf\_size=30, n\_neighbors=84;; score=0.654 total time=0.0s  
 [CV 2/5; 1074/1980] START leaf\_size=30, n\_neighbors=84...  
 [CV 2/5; 1067/1980] END leaf\_size=30, n\_neighbors=77;; score=0.605 total time=0.0s  
 [CV 2/5; 1080/1980] START leaf\_size=30, n\_neighbors=90...  
 [CV 2/5; 1065/1980] END leaf\_size=30, n\_neighbors=75;; score=0.603 total time=0.1s  
 [CV 3/5; 1065/1980] START leaf\_size=30, n\_neighbors=75...  
 [CV 5/5; 1069/1980] END leaf\_size=30, n\_neighbors=79;; score=0.619 total time=0.0s  
 [CV 1/5; 1070/1980] START leaf\_size=30, n\_neighbors=80...  
 [CV 4/5; 1075/1980] END leaf\_size=30, n\_neighbors=85;; score=0.576 total time=0.0s  
 [CV 5/5; 1075/1980] START leaf\_size=30, n\_neighbors=85...  
 [CV 5/5; 1072/1980] END leaf\_size=30, n\_neighbors=82;; score=0.630 total time=0.0s  
 [CV 1/5; 1073/1980] START leaf\_size=30, n\_neighbors=83...  
 [CV 3/5; 1068/1980] END leaf\_size=30, n\_neighbors=78;; score=0.555 total time=0.0s  
 [CV 4/5; 1068/1980] START leaf\_size=30, n\_neighbors=78...  
 [CV 2/5; 1074/1980] END leaf\_size=30, n\_neighbors=84;; score=0.603 total time=0.0s  
 [CV 3/5; 1074/1980] START leaf\_size=30, n\_neighbors=84...  
 [CV 2/5; 1080/1980] END leaf\_size=30, n\_neighbors=90;; score=0.600 total time=0.0s

[CV 3/5; 1080/1980] START leaf\_size=30, n\_neighbors=90...  
 [CV 1/5; 1070/1980] END leaf\_size=30, n\_neighbors=80;; score=0.659 total time=0.0s  
 [CV 2/5; 1070/1980] START leaf\_size=30, n\_neighbors=80...  
 [CV 2/5; 1077/1980] END leaf\_size=30, n\_neighbors=87;; score=0.603 total time=0.1s  
 [CV 3/5; 1077/1980] START leaf\_size=30, n\_neighbors=87...  
 [CV 2/5; 1071/1980] END leaf\_size=30, n\_neighbors=81;; score=0.596 total time=0.1s  
 [CV 3/5; 1071/1980] START leaf\_size=30, n\_neighbors=81...  
 [CV 5/5; 1078/1980] END leaf\_size=30, n\_neighbors=88;; score=0.617 total time=0.1s  
 [CV 1/5; 1079/1980] START leaf\_size=30, n\_neighbors=89...  
 [CV 4/5; 1068/1980] END leaf\_size=30, n\_neighbors=78;; score=0.571 total time=0.0s  
 [CV 5/5; 1068/1980] START leaf\_size=30, n\_neighbors=78...  
 [CV 1/5; 1073/1980] END leaf\_size=30, n\_neighbors=83;; score=0.650 total time=0.0s  
 [CV 2/5; 1073/1980] START leaf\_size=30, n\_neighbors=83...  
 [CV 5/5; 1075/1980] END leaf\_size=30, n\_neighbors=85;; score=0.626 total time=0.0s  
 [CV 1/5; 1076/1980] START leaf\_size=30, n\_neighbors=86...  
 [CV 3/5; 1074/1980] END leaf\_size=30, n\_neighbors=84;; score=0.555 total time=0.0s  
 [CV 3/5; 1065/1980] END leaf\_size=30, n\_neighbors=75;; score=0.555 total time=0.0s  
 [CV 4/5; 1074/1980] START leaf\_size=30, n\_neighbors=84...  
 [CV 4/5; 1065/1980] START leaf\_size=30, n\_neighbors=75...  
 [CV 3/5; 1080/1980] END leaf\_size=30, n\_neighbors=90;; score=0.564 total time=0.0s  
 [CV 4/5; 1080/1980] START leaf\_size=30, n\_neighbors=90...  
 [CV 2/5; 1070/1980] END leaf\_size=30, n\_neighbors=80;; score=0.594 total time=0.0s  
 [CV 3/5; 1070/1980] START leaf\_size=30, n\_neighbors=80...  
 [CV 3/5; 1077/1980] END leaf\_size=30, n\_neighbors=87;; score=0.562 total time=0.0s  
 [CV 4/5; 1077/1980] START leaf\_size=30, n\_neighbors=87...  
 [CV 3/5; 1071/1980] END leaf\_size=30, n\_neighbors=81;; score=0.562 total time=0.0s  
 [CV 4/5; 1071/1980] START leaf\_size=30, n\_neighbors=81...  
 [CV 5/5; 1068/1980] END leaf\_size=30, n\_neighbors=78;; score=0.628 total time=0.0s  
 [CV 5/5; 1081/1980] START leaf\_size=30, n\_neighbors=91...  
 [CV 2/5; 1073/1980] END leaf\_size=30, n\_neighbors=83;; score=0.596 total time=0.0s  
 [CV 3/5; 1073/1980] START leaf\_size=30, n\_neighbors=83...  
 [CV 1/5; 1079/1980] END leaf\_size=30, n\_neighbors=89;; score=0.646 total time=0.0s

[CV 2/5; 1079/1980] START leaf\_size=30, n\_neighbors=89...  
 [CV 4/5; 1074/1980] END leaf\_size=30, n\_neighbors=84;; score=0.582 total time=0.0s  
 [CV 5/5; 1074/1980] START leaf\_size=30, n\_neighbors=84...  
 [CV 1/5; 1076/1980] END leaf\_size=30, n\_neighbors=86;; score=0.648 total time=0.0s  
 [CV 2/5; 1076/1980] START leaf\_size=30, n\_neighbors=86...  
 [CV 3/5; 1070/1980] END leaf\_size=30, n\_neighbors=80;; score=0.564 total time=0.0s  
 [CV 4/5; 1080/1980] END leaf\_size=30, n\_neighbors=90;; score=0.580 total time=0.0s  
 [CV 3/5; 1083/1980] START leaf\_size=30, n\_neighbors=93...  
 [CV 5/5; 1080/1980] START leaf\_size=30, n\_neighbors=90...  
 [CV 4/5; 1065/1980] END leaf\_size=30, n\_neighbors=75;; score=0.591 total time=0.0s  
 [CV 4/5; 1077/1980] END leaf\_size=30, n\_neighbors=87;; score=0.584 total time=0.0s  
 [CV 5/5; 1077/1980] START leaf\_size=30, n\_neighbors=87...  
 [CV 4/5; 1071/1980] END leaf\_size=30, n\_neighbors=81;; score=0.587 total time=0.0s  
 [CV 5/5; 1071/1980] START leaf\_size=30, n\_neighbors=81...  
 [CV 5/5; 1081/1980] END leaf\_size=30, n\_neighbors=91;; score=0.623 total time=0.0s  
 [CV 1/5; 1082/1980] START leaf\_size=30, n\_neighbors=92...  
 [CV 3/5; 1073/1980] END leaf\_size=30, n\_neighbors=83;; score=0.564 total time=0.0s  
 [CV 4/5; 1073/1980] START leaf\_size=30, n\_neighbors=83...  
 [CV 5/5; 1074/1980] END leaf\_size=30, n\_neighbors=84;; score=0.626 total time=0.0s  
 [CV 1/5; 1075/1980] START leaf\_size=30, n\_neighbors=85...  
 [CV 1/5; 1085/1980] START leaf\_size=30, n\_neighbors=95...  
 [CV 2/5; 1079/1980] END leaf\_size=30, n\_neighbors=89;; score=0.600 total time=0.0s  
 [CV 3/5; 1079/1980] START leaf\_size=30, n\_neighbors=89...  
 [CV 2/5; 1076/1980] END leaf\_size=30, n\_neighbors=86;; score=0.598 total time=0.0s  
 [CV 3/5; 1076/1980] START leaf\_size=30, n\_neighbors=86...  
 [CV 5/5; 1080/1980] END leaf\_size=30, n\_neighbors=90;; score=0.617 total time=0.0s  
 [CV 1/5; 1081/1980] START leaf\_size=30, n\_neighbors=91...  
 [CV 3/5; 1083/1980] END leaf\_size=30, n\_neighbors=93;; score=0.564 total time=0.0s  
 [CV 4/5; 1083/1980] START leaf\_size=30, n\_neighbors=93...  
 [CV 5/5; 1071/1980] END leaf\_size=30, n\_neighbors=81;; score=0.626 total time=0.0s  
 [CV 1/5; 1072/1980] START leaf\_size=30, n\_neighbors=82...  
 [CV 5/5; 1077/1980] END leaf\_size=30, n\_neighbors=87;; score=0.619 total time=0.0s

[CV 1/5; 1078/1980] START leaf\_size=30, n\_neighbors=88...  
 [CV 1/5; 1082/1980] END leaf\_size=30, n\_neighbors=92;; score=0.646 total time=0.0s  
 [CV 2/5; 1082/1980] START leaf\_size=30, n\_neighbors=92...  
 [CV 4/5; 1073/1980] END leaf\_size=30, n\_neighbors=83;; score=0.584 total time=0.0s  
 [CV 4/5; 1086/1980] START leaf\_size=30, n\_neighbors=96...  
 [CV 1/5; 1075/1980] END leaf\_size=30, n\_neighbors=85;; score=0.650 total time=0.0s  
 [CV 2/5; 1075/1980] START leaf\_size=30, n\_neighbors=85...  
 [CV 3/5; 1079/1980] END leaf\_size=30, n\_neighbors=89;; score=0.564 total time=0.0s  
 [CV 4/5; 1079/1980] START leaf\_size=30, n\_neighbors=89...  
 [CV 1/5; 1085/1980] END leaf\_size=30, n\_neighbors=95;; score=0.644 total time=0.0s  
 [CV 2/5; 1085/1980] START leaf\_size=30, n\_neighbors=95...  
 [CV 4/5; 1083/1980] END leaf\_size=30, n\_neighbors=93;; score=0.587 total time=0.0s  
 [CV 5/5; 1083/1980] START leaf\_size=30, n\_neighbors=93...  
 [CV 1/5; 1081/1980] END leaf\_size=30, n\_neighbors=91;; score=0.648 total time=0.0s  
 [CV 2/5; 1081/1980] START leaf\_size=30, n\_neighbors=91...  
 [CV 1/5; 1072/1980] END leaf\_size=30, n\_neighbors=82;; score=0.659 total time=0.0s  
 [CV 2/5; 1082/1980] END leaf\_size=30, n\_neighbors=92;; score=0.598 total time=0.0s  
 [CV 3/5; 1076/1980] END leaf\_size=30, n\_neighbors=86;; score=0.559 total time=0.0s  
 [CV 3/5; 1082/1980] START leaf\_size=30, n\_neighbors=92...  
 [CV 4/5; 1076/1980] START leaf\_size=30, n\_neighbors=86...  
 [CV 2/5; 1088/1980] START leaf\_size=30, n\_neighbors=98...  
 [CV 1/5; 1078/1980] END leaf\_size=30, n\_neighbors=88;; score=0.652 total time=0.0s  
 [CV 2/5; 1078/1980] START leaf\_size=30, n\_neighbors=88...  
 [CV 2/5; 1075/1980] END leaf\_size=30, n\_neighbors=85;; score=0.600 total time=0.0s  
 [CV 5/5; 1089/1980] START leaf\_size=30, n\_neighbors=99...  
 [CV 4/5; 1086/1980] END leaf\_size=30, n\_neighbors=96;; score=0.582 total time=0.0s  
 [CV 5/5; 1086/1980] START leaf\_size=30, n\_neighbors=96...  
 [CV 4/5; 1079/1980] END leaf\_size=30, n\_neighbors=89;; score=0.591 total time=0.0s  
 [CV 5/5; 1079/1980] START leaf\_size=30, n\_neighbors=89...  
 [CV 2/5; 1085/1980] END leaf\_size=30, n\_neighbors=95;; score=0.603 total time=0.0s  
 [CV 3/5; 1085/1980] START leaf\_size=30, n\_neighbors=95...  
 [CV 5/5; 1083/1980] END leaf\_size=30, n\_neighbors=93;; score=0.617 total time=0.0s



[CV 1/5; 1084/1980] START leaf\_size=30, n\_neighbors=94...  
 [CV 3/5; 1082/1980] END leaf\_size=30, n\_neighbors=92;; score=0.564 total time=0.0s  
 [CV 4/5; 1082/1980] START leaf\_size=30, n\_neighbors=92...  
 [CV 2/5; 1081/1980] END leaf\_size=30, n\_neighbors=91;; score=0.605 total time=0.0s  
 [CV 3/5; 1081/1980] START leaf\_size=30, n\_neighbors=91...  
 [CV 2/5; 1088/1980] END leaf\_size=30, n\_neighbors=98;; score=0.596 total time=0.0s  
 [CV 3/5; 1088/1980] START leaf\_size=30, n\_neighbors=98...  
 [CV 4/5; 1076/1980] END leaf\_size=30, n\_neighbors=86;; score=0.580 total time=0.0s  
 [CV 5/5; 1076/1980] START leaf\_size=30, n\_neighbors=86...  
 [CV 2/5; 1078/1980] END leaf\_size=30, n\_neighbors=88;; score=0.600 total time=0.0s  
 [CV 3/5; 1078/1980] START leaf\_size=30, n\_neighbors=88...  
 [CV 5/5; 1089/1980] END leaf\_size=30, n\_neighbors=99;; score=0.610 total time=0.0s  
 [CV 1/5; 1090/1980] START leaf\_size=31, n\_neighbors=1...  
 [CV 5/5; 1086/1980] END leaf\_size=30, n\_neighbors=96;; score=0.604 total time=0.0s  
 [CV 1/5; 1087/1980] START leaf\_size=30, n\_neighbors=97...  
 [CV 5/5; 1079/1980] END leaf\_size=30, n\_neighbors=89;; score=0.621 total time=0.0s  
 [CV 1/5; 1080/1980] START leaf\_size=30, n\_neighbors=90...  
 [CV 3/5; 1085/1980] END leaf\_size=30, n\_neighbors=95;; score=0.566 total time=0.0s  
 [CV 4/5; 1085/1980] START leaf\_size=30, n\_neighbors=95...  
 [CV 4/5; 1082/1980] END leaf\_size=30, n\_neighbors=92;; score=0.582 total time=0.0s  
 [CV 5/5; 1082/1980] START leaf\_size=30, n\_neighbors=92...  
 [CV 1/5; 1084/1980] END leaf\_size=30, n\_neighbors=94;; score=0.644 total time=0.0s  
 [CV 2/5; 1084/1980] START leaf\_size=30, n\_neighbors=94...  
 [CV 3/5; 1088/1980] END leaf\_size=30, n\_neighbors=98;; score=0.562 total time=0.0s  
 [CV 4/5; 1088/1980] START leaf\_size=30, n\_neighbors=98...  
 [CV 1/5; 1090/1980] END leaf\_size=31, n\_neighbors=1;; score=0.516 total time=0.0s  
 [CV 2/5; 1090/1980] START leaf\_size=31, n\_neighbors=1...  
 [CV 3/5; 1081/1980] END leaf\_size=30, n\_neighbors=91;; score=0.564 total time=0.0s  
 [CV 4/5; 1081/1980] START leaf\_size=30, n\_neighbors=91...  
 [CV 5/5; 1076/1980] END leaf\_size=30, n\_neighbors=86;; score=0.623 total time=0.0s  
 [CV 3/5; 1091/1980] START leaf\_size=31, n\_neighbors=2...  
 [CV 3/5; 1078/1980] END leaf\_size=30, n\_neighbors=88;; score=0.562 total time=0.0s

[CV 1/5; 1093/1980] START leaf\_size=31, n\_neighbors=4...  
 [CV 1/5; 1087/1980] END leaf\_size=30, n\_neighbors=97;; score=0.641 total time=0.0s  
 [CV 2/5; 1087/1980] START leaf\_size=30, n\_neighbors=97...  
 [CV 2/5; 1090/1980] END leaf\_size=31, n\_neighbors=1;; score=0.568 total time=0.0s  
 [CV 3/5; 1090/1980] START leaf\_size=31, n\_neighbors=1...  
 [CV 5/5; 1082/1980] END leaf\_size=30, n\_neighbors=92;; score=0.621 total time=0.0s  
 [CV 1/5; 1083/1980] START leaf\_size=30, n\_neighbors=93...  
 [CV 1/5; 1080/1980] END leaf\_size=30, n\_neighbors=90;; score=0.650 total time=0.0s  
 [CV 4/5; 1094/1980] START leaf\_size=31, n\_neighbors=5...  
 [CV 3/5; 1091/1980] END leaf\_size=31, n\_neighbors=2;; score=0.512 total time=0.0s  
 [CV 4/5; 1091/1980] START leaf\_size=31, n\_neighbors=2...  
 [CV 1/5; 1093/1980] END leaf\_size=31, n\_neighbors=4;; score=0.562 total time=0.0s  
 [CV 4/5; 1088/1980] END leaf\_size=30, n\_neighbors=98;; score=0.584 total time=0.0s  
 [CV 2/5; 1093/1980] START leaf\_size=31, n\_neighbors=4...  
 [CV 5/5; 1088/1980] START leaf\_size=30, n\_neighbors=98...  
 [CV 4/5; 1085/1980] END leaf\_size=30, n\_neighbors=95;; score=0.584 total time=0.0s  
 [CV 2/5; 1084/1980] END leaf\_size=30, n\_neighbors=94;; score=0.600 total time=0.0s  
 [CV 5/5; 1085/1980] START leaf\_size=30, n\_neighbors=95...  
  
 [CV 3/5; 1084/1980] START leaf\_size=30, n\_neighbors=94...  
 [CV 4/5; 1081/1980] END leaf\_size=30, n\_neighbors=91;; score=0.591 total time=0.0s  
 [CV 2/5; 1096/1980] START leaf\_size=31, n\_neighbors=7...  
 [CV 3/5; 1090/1980] END leaf\_size=31, n\_neighbors=1;; score=0.490 total time=0.0s  
 [CV 4/5; 1090/1980] START leaf\_size=31, n\_neighbors=1...  
 [CV 4/5; 1094/1980] END leaf\_size=31, n\_neighbors=5;; score=0.589 total time=0.0s  
 [CV 5/5; 1094/1980] START leaf\_size=31, n\_neighbors=5...  
 [CV 2/5; 1087/1980] END leaf\_size=30, n\_neighbors=97;; score=0.594 total time=0.0s  
 [CV 3/5; 1087/1980] START leaf\_size=30, n\_neighbors=97...  
 [CV 4/5; 1091/1980] END leaf\_size=31, n\_neighbors=2;; score=0.571 total time=0.0s  
 [CV 5/5; 1091/1980] START leaf\_size=31, n\_neighbors=2...  
 [CV 1/5; 1083/1980] END leaf\_size=30, n\_neighbors=93;; score=0.646 total time=0.0s  
 [CV 2/5; 1083/1980] START leaf\_size=30, n\_neighbors=93...  
 [CV 2/5; 1093/1980] END leaf\_size=31, n\_neighbors=4;; score=0.581 total time=

0.0s  
 [CV 3/5; 1093/1980] START leaf\_size=31, n\_neighbors=4...  
 [CV 2/5; 1096/1980] END leaf\_size=31, n\_neighbors=7;; score=0.559 total time=  
 0.0s  
 [CV 3/5; 1096/1980] START leaf\_size=31, n\_neighbors=7...  
 [CV 4/5; 1090/1980] END leaf\_size=31, n\_neighbors=1;; score=0.539 total time=  
 0.0s  
 [CV 5/5; 1090/1980] START leaf\_size=31, n\_neighbors=1...  
 [CV 3/5; 1084/1980] END leaf\_size=30, n\_neighbors=94;; score=0.562 total time=  
 0.0s  
 [CV 4/5; 1084/1980] START leaf\_size=30, n\_neighbors=94...  
 [CV 5/5; 1094/1980] END leaf\_size=31, n\_neighbors=5;; score=0.591 total time=  
 0.0s  
 [CV 1/5; 1095/1980] START leaf\_size=31, n\_neighbors=6...  
 [CV 3/5; 1093/1980] END leaf\_size=31, n\_neighbors=4;; score=0.544 total time=  
 0.0s  
 [CV 4/5; 1093/1980] START leaf\_size=31, n\_neighbors=4...  
 [CV 5/5; 1085/1980] END leaf\_size=30, n\_neighbors=95;; score=0.608 total time=  
 0.0s  
 [CV 1/5; 1086/1980] START leaf\_size=30, n\_neighbors=96...  
 [CV 3/5; 1096/1980] END leaf\_size=31, n\_neighbors=7;; score=0.551 total time=  
 0.0s [CV 5/5; 1090/1980] END leaf\_size=31, n\_neighbors=1;; score=0.567 total  
 time= 0.0s  
  
 [CV 1/5; 1091/1980] START leaf\_size=31, n\_neighbors=2...  
 [CV 4/5; 1096/1980] START leaf\_size=31, n\_neighbors=7...  
 [CV 2/5; 1083/1980] END leaf\_size=30, n\_neighbors=93;; score=0.603 total time=  
 0.0s  
 [CV 3/5; 1087/1980] END leaf\_size=30, n\_neighbors=97;; score=0.564 total time=  
 0.0s  
 [CV 4/5; 1087/1980] START leaf\_size=30, n\_neighbors=97...  
 [CV 5/5; 1097/1980] START leaf\_size=31, n\_neighbors=8...  
 [CV 4/5; 1093/1980] END leaf\_size=31, n\_neighbors=4;; score=0.580 total time=  
 0.0s  
 [CV 5/5; 1093/1980] START leaf\_size=31, n\_neighbors=4...  
 [CV 1/5; 1091/1980] END leaf\_size=31, n\_neighbors=2;; score=0.566 total time=  
 0.0s  
 [CV 2/5; 1091/1980] START leaf\_size=31, n\_neighbors=2...  
 [CV 4/5; 1096/1980] END leaf\_size=31, n\_neighbors=7;; score=0.584 total time=  
 0.0s  
 [CV 5/5; 1096/1980] START leaf\_size=31, n\_neighbors=7...  
 [CV 5/5; 1097/1980] END leaf\_size=31, n\_neighbors=8;; score=0.608 total time=  
 0.0s  
 [CV 1/5; 1098/1980] START leaf\_size=31, n\_neighbors=9...  
 [CV 5/5; 1088/1980] END leaf\_size=30, n\_neighbors=98;; score=0.606 total time=  
 0.1s  
 [CV 1/5; 1089/1980] START leaf\_size=30, n\_neighbors=99...  
 [CV 2/5; 1091/1980] END leaf\_size=31, n\_neighbors=2;; score=0.579 total time=

0.0s  
 [CV 1/5; 1095/1980] END leaf\_size=31, n\_neighbors=6;; score=0.570 total time=  
 0.0s  
 [CV 2/5; 1095/1980] START leaf\_size=31, n\_neighbors=6...  
 [CV 5/5; 1093/1980] END leaf\_size=31, n\_neighbors=4;; score=0.593 total time=  
 0.0s  
 [CV 1/5; 1094/1980] START leaf\_size=31, n\_neighbors=5...  
 [CV 3/5; 1099/1980] START leaf\_size=31, n\_neighbors=10...  
 [CV 5/5; 1091/1980] END leaf\_size=31, n\_neighbors=2;; score=0.574 total time=  
 0.1s  
 [CV 1/5; 1092/1980] START leaf\_size=31, n\_neighbors=3...  
 [CV 4/5; 1087/1980] END leaf\_size=30, n\_neighbors=97;; score=0.580 total time=  
 0.0s  
 [CV 5/5; 1087/1980] START leaf\_size=30, n\_neighbors=97...  
 [CV 1/5; 1098/1980] END leaf\_size=31, n\_neighbors=9;; score=0.592 total time=  
 0.0s  
 [CV 2/5; 1098/1980] START leaf\_size=31, n\_neighbors=9...  
 [CV 5/5; 1096/1980] END leaf\_size=31, n\_neighbors=7;; score=0.613 total time=  
 0.0s  
 [CV 1/5; 1097/1980] START leaf\_size=31, n\_neighbors=8...  
 [CV 1/5; 1094/1980] END leaf\_size=31, n\_neighbors=5;; score=0.546 total time=  
 0.0s  
 [CV 2/5; 1094/1980] START leaf\_size=31, n\_neighbors=5...  
 [CV 3/5; 1099/1980] END leaf\_size=31, n\_neighbors=10;; score=0.549 total time=  
 0.0s  
 [CV 4/5; 1099/1980] START leaf\_size=31, n\_neighbors=10...  
 [CV 2/5; 1098/1980] END leaf\_size=31, n\_neighbors=9;; score=0.570 total time=  
 0.0s  
 [CV 3/5; 1098/1980] START leaf\_size=31, n\_neighbors=9...  
 [CV 2/5; 1095/1980] END leaf\_size=31, n\_neighbors=6;; score=0.546 total time=  
 0.0s  
 [CV 3/5; 1095/1980] START leaf\_size=31, n\_neighbors=6...  
 [CV 4/5; 1084/1980] END leaf\_size=30, n\_neighbors=94;; score=0.582 total time=  
 0.1s  
 [CV 5/5; 1084/1980] START leaf\_size=30, n\_neighbors=94...  
 [CV 1/5; 1092/1980] END leaf\_size=31, n\_neighbors=3;; score=0.557 total time=  
 0.0s  
 [CV 2/5; 1092/1980] START leaf\_size=31, n\_neighbors=3...  
 [CV 1/5; 1086/1980] END leaf\_size=30, n\_neighbors=96;; score=0.637 total time=  
 0.1s  
 [CV 2/5; 1086/1980] START leaf\_size=30, n\_neighbors=96...  
 [CV 5/5; 1087/1980] END leaf\_size=30, n\_neighbors=97;; score=0.602 total time=  
 0.0s  
 [CV 1/5; 1088/1980] START leaf\_size=30, n\_neighbors=98...  
 [CV 1/5; 1089/1980] END leaf\_size=30, n\_neighbors=99;; score=0.641 total time=  
 0.0s  
 [CV 2/5; 1089/1980] START leaf\_size=30, n\_neighbors=99...  
 [CV 2/5; 1094/1980] END leaf\_size=31, n\_neighbors=5;; score=0.562 total time=

0.0s  
 [CV 3/5; 1094/1980] START leaf\_size=31, n\_neighbors=5...  
 [CV 4/5; 1099/1980] END leaf\_size=31, n\_neighbors=10;; score=0.597 total time=  
 0.0s  
 [CV 5/5; 1099/1980] START leaf\_size=31, n\_neighbors=10...  
 [CV 1/5; 1097/1980] END leaf\_size=31, n\_neighbors=8;; score=0.568 total time=  
 0.0s  
 [CV 2/5; 1097/1980] START leaf\_size=31, n\_neighbors=8...  
 [CV 3/5; 1098/1980] END leaf\_size=31, n\_neighbors=9;; score=0.559 total time=  
 0.0s  
 [CV 4/5; 1098/1980] START leaf\_size=31, n\_neighbors=9...  
 [CV 3/5; 1095/1980] END leaf\_size=31, n\_neighbors=6;; score=0.555 total time=  
 0.0s  
 [CV 4/5; 1095/1980] START leaf\_size=31, n\_neighbors=6...  
 [CV 2/5; 1092/1980] END leaf\_size=31, n\_neighbors=3;; score=0.579 total time=  
 0.0s  
 [CV 3/5; 1092/1980] START leaf\_size=31, n\_neighbors=3...  
 [CV 5/5; 1084/1980] END leaf\_size=30, n\_neighbors=94;; score=0.608 total time=  
 0.0s  
 [CV 4/5; 1098/1980] END leaf\_size=31, n\_neighbors=9;; score=0.589 total time=  
 0.0s  
 [CV 5/5; 1098/1980] START leaf\_size=31, n\_neighbors=9...  
 [CV 5/5; 1099/1980] END leaf\_size=31, n\_neighbors=10;; score=0.615 total time=  
 0.0s  
 [CV 1/5; 1100/1980] START leaf\_size=31, n\_neighbors=11...  
 [CV 1/5; 1088/1980] END leaf\_size=30, n\_neighbors=98;; score=0.635 total time=  
 0.0s  
 [CV 3/5; 1092/1980] END leaf\_size=31, n\_neighbors=3;; score=0.484 total time=  
 0.0s  
 [CV 4/5; 1092/1980] START leaf\_size=31, n\_neighbors=3...  
 [CV 1/5; 1101/1980] START leaf\_size=31, n\_neighbors=12...  
 [CV 4/5; 1095/1980] END leaf\_size=31, n\_neighbors=6;; score=0.578 total time=  
 0.0s  
 [CV 5/5; 1095/1980] START leaf\_size=31, n\_neighbors=6...  
 [CV 4/5; 1102/1980] START leaf\_size=31, n\_neighbors=13...  
 [CV 2/5; 1086/1980] END leaf\_size=30, n\_neighbors=96;; score=0.598 total time=  
 0.0s  
 [CV 3/5; 1086/1980] START leaf\_size=30, n\_neighbors=96...  
 [CV 3/5; 1094/1980] END leaf\_size=31, n\_neighbors=5;; score=0.536 total time=  
 0.0s  
 [CV 2/5; 1104/1980] START leaf\_size=31, n\_neighbors=15...  
 [CV 2/5; 1097/1980] END leaf\_size=31, n\_neighbors=8;; score=0.551 total time=  
 0.0s  
 [CV 3/5; 1097/1980] START leaf\_size=31, n\_neighbors=8...  
 [CV 5/5; 1098/1980] END leaf\_size=31, n\_neighbors=9;; score=0.613 total time=  
 0.0s  
 [CV 1/5; 1099/1980] START leaf\_size=31, n\_neighbors=10...  
 [CV 1/5; 1100/1980] END leaf\_size=31, n\_neighbors=11;; score=0.624 total time=

0.0s  
 [CV 2/5; 1100/1980] START leaf\_size=31, n\_neighbors=11...  
 [CV 4/5; 1092/1980] END leaf\_size=31, n\_neighbors=3;;, score=0.584 total time=  
 0.0s  
 [CV 5/5; 1092/1980] START leaf\_size=31, n\_neighbors=3...  
 [CV 1/5; 1101/1980] END leaf\_size=31, n\_neighbors=12;;, score=0.648 total time=  
 0.0s  
 [CV 2/5; 1101/1980] START leaf\_size=31, n\_neighbors=12...  
 [CV 2/5; 1089/1980] END leaf\_size=30, n\_neighbors=99;;, score=0.598 total time=  
 0.1s  
 [CV 3/5; 1089/1980] START leaf\_size=30, n\_neighbors=99...  
 [CV 4/5; 1102/1980] END leaf\_size=31, n\_neighbors=13;;, score=0.574 total time=  
 0.0s  
 [CV 5/5; 1102/1980] START leaf\_size=31, n\_neighbors=13...  
 [CV 2/5; 1104/1980] END leaf\_size=31, n\_neighbors=15;;, score=0.570 total time=  
 0.0s  
 [CV 3/5; 1104/1980] START leaf\_size=31, n\_neighbors=15...  
 [CV 1/5; 1099/1980] END leaf\_size=31, n\_neighbors=10;;, score=0.611 total time=  
 0.0s  
 [CV 2/5; 1099/1980] START leaf\_size=31, n\_neighbors=10...  
 [CV 5/5; 1095/1980] END leaf\_size=31, n\_neighbors=6;;, score=0.582 total time=  
 0.0s  
 [CV 1/5; 1096/1980] START leaf\_size=31, n\_neighbors=7...  
 [CV 5/5; 1092/1980] END leaf\_size=31, n\_neighbors=3;;, score=0.593 total time=  
 0.0s  
 [CV 2/5; 1100/1980] END leaf\_size=31, n\_neighbors=11;;, score=0.579 total time=  
 0.0s  
 [CV 3/5; 1100/1980] START leaf\_size=31, n\_neighbors=11...  
 [CV 5/5; 1105/1980] START leaf\_size=31, n\_neighbors=16...  
 [CV 3/5; 1097/1980] END leaf\_size=31, n\_neighbors=8;;, score=0.551 total time=  
 0.0s  
 [CV 4/5; 1097/1980] START leaf\_size=31, n\_neighbors=8...  
 [CV 2/5; 1101/1980] END leaf\_size=31, n\_neighbors=12;;, score=0.581 total time=  
 0.0s  
 [CV 3/5; 1101/1980] START leaf\_size=31, n\_neighbors=12...  
 [CV 3/5; 1086/1980] END leaf\_size=30, n\_neighbors=96;;, score=0.564 total time=  
 0.0s  
 [CV 3/5; 1107/1980] START leaf\_size=31, n\_neighbors=18...  
 [CV 5/5; 1102/1980] END leaf\_size=31, n\_neighbors=13;;, score=0.591 total time=  
 0.0s  
 [CV 1/5; 1103/1980] START leaf\_size=31, n\_neighbors=14...  
 [CV 2/5; 1099/1980] END leaf\_size=31, n\_neighbors=10;;, score=0.568 total time=  
 0.0s  
 [CV 3/5; 1104/1980] END leaf\_size=31, n\_neighbors=15;;, score=0.557 total time=  
 0.0s  
 [CV 4/5; 1104/1980] START leaf\_size=31, n\_neighbors=15...  
 [CV 3/5; 1100/1980] END leaf\_size=31, n\_neighbors=11;;, score=0.551 total time=  
 0.0s

[CV 5/5; 1105/1980] END leaf\_size=31, n\_neighbors=16;; score=0.621 total time=0.0s  
[CV 4/5; 1100/1980] START leaf\_size=31, n\_neighbors=11...

[CV 1/5; 1106/1980] START leaf\_size=31, n\_neighbors=17...  
[CV 1/5; 1109/1980] START leaf\_size=31, n\_neighbors=20...  
[CV 3/5; 1089/1980] END leaf\_size=30, n\_neighbors=99;; score=0.566 total time=0.0s  
[CV 4/5; 1089/1980] START leaf\_size=30, n\_neighbors=99...  
[CV 1/5; 1096/1980] END leaf\_size=31, n\_neighbors=7;; score=0.568 total time=0.0s  
[CV 3/5; 1101/1980] END leaf\_size=31, n\_neighbors=12;; score=0.546 total time=0.0s  
[CV 4/5; 1101/1980] START leaf\_size=31, n\_neighbors=12...  
[CV 4/5; 1110/1980] START leaf\_size=31, n\_neighbors=21...  
[CV 4/5; 1097/1980] END leaf\_size=31, n\_neighbors=8;; score=0.617 total time=0.0s  
[CV 2/5; 1112/1980] START leaf\_size=31, n\_neighbors=23...  
[CV 1/5; 1103/1980] END leaf\_size=31, n\_neighbors=14;; score=0.644 total time=0.0s  
[CV 2/5; 1103/1980] START leaf\_size=31, n\_neighbors=14...  
[CV 3/5; 1107/1980] END leaf\_size=31, n\_neighbors=18;; score=0.555 total time=0.0s  
[CV 4/5; 1107/1980] START leaf\_size=31, n\_neighbors=18...  
[CV 4/5; 1104/1980] END leaf\_size=31, n\_neighbors=15;; score=0.584 total time=0.0s  
[CV 4/5; 1100/1980] END leaf\_size=31, n\_neighbors=11;; score=0.589 total time=0.0s  
[CV 5/5; 1104/1980] START leaf\_size=31, n\_neighbors=15...  
[CV 5/5; 1100/1980] START leaf\_size=31, n\_neighbors=11...  
[CV 4/5; 1101/1980] END leaf\_size=31, n\_neighbors=12;; score=0.576 total time=0.0s  
[CV 5/5; 1101/1980] START leaf\_size=31, n\_neighbors=12...  
[CV 1/5; 1106/1980] END leaf\_size=31, n\_neighbors=17;; score=0.631 total time=0.0s  
[CV 2/5; 1106/1980] START leaf\_size=31, n\_neighbors=17...  
[CV 1/5; 1109/1980] END leaf\_size=31, n\_neighbors=20;; score=0.618 total time=0.0s  
[CV 2/5; 1109/1980] START leaf\_size=31, n\_neighbors=20...  
[CV 4/5; 1110/1980] END leaf\_size=31, n\_neighbors=21;; score=0.606 total time=0.0s  
[CV 5/5; 1110/1980] START leaf\_size=31, n\_neighbors=21...  
[CV 2/5; 1103/1980] END leaf\_size=31, n\_neighbors=14;; score=0.572 total time=0.0s  
[CV 4/5; 1089/1980] END leaf\_size=30, n\_neighbors=99;; score=0.589 total time= 0.0s

[CV 3/5; 1103/1980] START leaf\_size=31, n\_neighbors=14...  
[CV 5/5; 1113/1980] START leaf\_size=31, n\_neighbors=24...

[CV 2/5; 1112/1980] END leaf\_size=31, n\_neighbors=23;; score=0.583 total time=0.0s  
[CV 5/5; 1101/1980] END leaf\_size=31, n\_neighbors=12;; score=0.613 total time= 0.0s  
[CV 5/5; 1100/1980] END leaf\_size=31, n\_neighbors=11;; score=0.606 total time= 0.0s

[CV 1/5; 1102/1980] START leaf\_size=31, n\_neighbors=13...  
[CV 5/5; 1104/1980] END leaf\_size=31, n\_neighbors=15;; score=0.615 total time=0.0s  
[CV 1/5; 1105/1980] START leaf\_size=31, n\_neighbors=16...  
[CV 3/5; 1115/1980] START leaf\_size=31, n\_neighbors=26...

[CV 4/5; 1107/1980] END leaf\_size=31, n\_neighbors=18;; score=0.600 total time=0.0s  
[CV 5/5; 1107/1980] START leaf\_size=31, n\_neighbors=18...  
[CV 3/5; 1112/1980] START leaf\_size=31, n\_neighbors=23...

[CV 2/5; 1106/1980] END leaf\_size=31, n\_neighbors=17;; score=0.568 total time=0.0s  
[CV 3/5; 1106/1980] START leaf\_size=31, n\_neighbors=17...  
[CV 2/5; 1109/1980] END leaf\_size=31, n\_neighbors=20;; score=0.583 total time=0.0s  
[CV 3/5; 1109/1980] START leaf\_size=31, n\_neighbors=20...  
[CV 3/5; 1103/1980] END leaf\_size=31, n\_neighbors=14;; score=0.544 total time=0.0s  
[CV 4/5; 1103/1980] START leaf\_size=31, n\_neighbors=14...  
[CV 5/5; 1110/1980] END leaf\_size=31, n\_neighbors=21;; score=0.621 total time=0.0s  
[CV 1/5; 1111/1980] START leaf\_size=31, n\_neighbors=22...  
[CV 5/5; 1113/1980] END leaf\_size=31, n\_neighbors=24;; score=0.647 total time=0.0s  
[CV 1/5; 1114/1980] START leaf\_size=31, n\_neighbors=25...  
[CV 1/5; 1102/1980] END leaf\_size=31, n\_neighbors=13;; score=0.633 total time=0.0s  
[CV 2/5; 1102/1980] START leaf\_size=31, n\_neighbors=13...  
[CV 1/5; 1105/1980] END leaf\_size=31, n\_neighbors=16;; score=0.637 total time=0.0s  
[CV 2/5; 1105/1980] START leaf\_size=31, n\_neighbors=16...  
[CV 3/5; 1115/1980] END leaf\_size=31, n\_neighbors=26;; score=0.564 total time=0.0s  
[CV 4/5; 1115/1980] START leaf\_size=31, n\_neighbors=26...  
[CV 3/5; 1106/1980] END leaf\_size=31, n\_neighbors=17;; score=0.564 total time=0.0s  
[CV 4/5; 1106/1980] START leaf\_size=31, n\_neighbors=17...  
[CV 3/5; 1109/1980] END leaf\_size=31, n\_neighbors=20;; score=0.553 total time=0.0s  
[CV 3/5; 1112/1980] END leaf\_size=31, n\_neighbors=23;; score=0.557 total time= 0.0s



[CV 4/5; 1112/1980] START leaf\_size=31,  
n\_neighbors=23...[CV 4/5; 1109/1980] START leaf\_size=31,  
n\_neighbors=20...

[CV 4/5; 1103/1980] END leaf\_size=31, n\_neighbors=14;; score=0.584 total time=  
0.0s[CV 5/5; 1107/1980] END leaf\_size=31, n\_neighbors=18;; score=0.617 total  
time= 0.0s

[CV 1/5; 1108/1980] START leaf\_size=31, n\_neighbors=19...  
[CV 5/5; 1103/1980] START leaf\_size=31, n\_neighbors=14...  
[CV 2/5; 1102/1980] END leaf\_size=31, n\_neighbors=13;; score=0.570 total time=  
0.0s  
[CV 3/5; 1102/1980] START leaf\_size=31, n\_neighbors=13...  
[CV 1/5; 1111/1980] END leaf\_size=31, n\_neighbors=22;; score=0.622 total time=  
0.0s  
[CV 2/5; 1111/1980] START leaf\_size=31, n\_neighbors=22...  
[CV 1/5; 1114/1980] END leaf\_size=31, n\_neighbors=25;; score=0.646 total time=  
0.0s  
[CV 2/5; 1114/1980] START leaf\_size=31, n\_neighbors=25...  
[CV 2/5; 1105/1980] END leaf\_size=31, n\_neighbors=16;; score=0.575 total time=  
0.0s  
[CV 3/5; 1105/1980] START leaf\_size=31, n\_neighbors=16...  
[CV 4/5; 1106/1980] END leaf\_size=31, n\_neighbors=17;; score=0.580 total time=  
0.0s  
[CV 5/5; 1106/1980] START leaf\_size=31, n\_neighbors=17...  
[CV 4/5; 1115/1980] END leaf\_size=31, n\_neighbors=26;; score=0.593 total time=  
0.0s  
[CV 5/5; 1115/1980] START leaf\_size=31, n\_neighbors=26...  
[CV 4/5; 1109/1980] END leaf\_size=31, n\_neighbors=20;; score=0.600 total time=  
0.0s  
[CV 5/5; 1109/1980] START leaf\_size=31, n\_neighbors=20...  
[CV 5/5; 1103/1980] END leaf\_size=31, n\_neighbors=14;; score=0.606 total time=  
0.0s  
[CV 1/5; 1104/1980] START leaf\_size=31, n\_neighbors=15...  
[CV 3/5; 1102/1980] END leaf\_size=31, n\_neighbors=13;; score=0.553 total time=  
0.0s  
[CV 1/5; 1108/1980] END leaf\_size=31, n\_neighbors=19;; score=0.637 total time=  
0.0s  
[CV 2/5; 1108/1980] START leaf\_size=31, n\_neighbors=19...  
[CV 4/5; 1112/1980] END leaf\_size=31, n\_neighbors=23;; score=0.600 total time=  
0.0s  
[CV 5/5; 1112/1980] START leaf\_size=31, n\_neighbors=23...  
[CV 1/5; 1117/1980] START leaf\_size=31, n\_neighbors=28...  
[CV 3/5; 1105/1980] END leaf\_size=31, n\_neighbors=16;; score=0.557 total time=  
0.0s  
[CV 4/5; 1105/1980] START leaf\_size=31, n\_neighbors=16...  
[CV 2/5; 1114/1980] END leaf\_size=31, n\_neighbors=25;; score=0.598 total time=  
0.0s

[CV 3/5; 1114/1980] START leaf\_size=31, n\_neighbors=25...  
 [CV 5/5; 1106/1980] END leaf\_size=31, n\_neighbors=17;; score=0.610 total time=0.0s  
 [CV 1/5; 1107/1980] START leaf\_size=31, n\_neighbors=18...  
 [CV 2/5; 1111/1980] END leaf\_size=31, n\_neighbors=22;; score=0.587 total time=0.0s  
 [CV 3/5; 1111/1980] START leaf\_size=31, n\_neighbors=22...  
 [CV 5/5; 1109/1980] END leaf\_size=31, n\_neighbors=20;; score=0.632 total time=0.0s  
 [CV 1/5; 1110/1980] START leaf\_size=31, n\_neighbors=21...  
 [CV 5/5; 1115/1980] END leaf\_size=31, n\_neighbors=26;; score=0.628 total time=0.0s  
 [CV 1/5; 1116/1980] START leaf\_size=31, n\_neighbors=27...  
 [CV 1/5; 1104/1980] END leaf\_size=31, n\_neighbors=15;; score=0.637 total time=0.0s  
 [CV 4/5; 1118/1980] START leaf\_size=31, n\_neighbors=29...  
 [CV 5/5; 1112/1980] END leaf\_size=31, n\_neighbors=23;; score=0.643 total time=0.0s  
 [CV 1/5; 1113/1980] START leaf\_size=31, n\_neighbors=24...  
 [CV 4/5; 1105/1980] END leaf\_size=31, n\_neighbors=16;; score=0.584 total time=0.0s  
 [CV 1/5; 1117/1980] END leaf\_size=31, n\_neighbors=28;; score=0.650 total time=0.0s  
 [CV 2/5; 1117/1980] START leaf\_size=31, n\_neighbors=28...  
 [CV 2/5; 1108/1980] END leaf\_size=31, n\_neighbors=19;; score=0.583 total time=0.0s  
 [CV 3/5; 1108/1980] START leaf\_size=31, n\_neighbors=19...  
 [CV 2/5; 1120/1980] START leaf\_size=31, n\_neighbors=31...  
 [CV 3/5; 1114/1980] END leaf\_size=31, n\_neighbors=25;; score=0.557 total time=0.0s  
 [CV 4/5; 1114/1980] START leaf\_size=31, n\_neighbors=25...  
 [CV 1/5; 1107/1980] END leaf\_size=31, n\_neighbors=18;; score=0.635 total time=0.0s  
 [CV 2/5; 1107/1980] START leaf\_size=31, n\_neighbors=18...  
 [CV 1/5; 1110/1980] END leaf\_size=31, n\_neighbors=21;; score=0.626 total time=0.0s  
 [CV 2/5; 1110/1980] START leaf\_size=31, n\_neighbors=21...  
 [CV 3/5; 1111/1980] END leaf\_size=31, n\_neighbors=22;; score=0.555 total time=0.0s  
 [CV 4/5; 1111/1980] START leaf\_size=31, n\_neighbors=22...  
 [CV 1/5; 1116/1980] END leaf\_size=31, n\_neighbors=27;; score=0.650 total time=0.0s  
 [CV 2/5; 1116/1980] START leaf\_size=31, n\_neighbors=27...  
 [CV 4/5; 1118/1980] END leaf\_size=31, n\_neighbors=29;; score=0.600 total time=0.0s  
 [CV 1/5; 1113/1980] END leaf\_size=31, n\_neighbors=24;; score=0.646 total time=0.0s  
 [CV 2/5; 1113/1980] START leaf\_size=31,

n\_neighbors=24...[CV 5/5; 1118/1980] START leaf\_size=31,  
n\_neighbors=29...

[CV 2/5; 1117/1980] END leaf\_size=31, n\_neighbors=28;; score=0.598 total time=0.0s

[CV 3/5; 1117/1980] START leaf\_size=31, n\_neighbors=28...

[CV 2/5; 1120/1980] END leaf\_size=31, n\_neighbors=31;; score=0.603 total time=0.0s

[CV 3/5; 1120/1980] START leaf\_size=31, n\_neighbors=31...

[CV 4/5; 1114/1980] END leaf\_size=31, n\_neighbors=25;; score=0.587 total time=0.0s

[CV 5/5; 1114/1980] START leaf\_size=31, n\_neighbors=25...

[CV 2/5; 1107/1980] END leaf\_size=31, n\_neighbors=18;; score=0.590 total time=0.0s

[CV 3/5; 1108/1980] END leaf\_size=31, n\_neighbors=19;; score=0.551 total time=0.0s

[CV 4/5; 1108/1980] START leaf\_size=31, n\_neighbors=19...

[CV 2/5; 1110/1980] END leaf\_size=31, n\_neighbors=21;; score=0.581 total time=0.0s

[CV 3/5; 1110/1980] START leaf\_size=31, n\_neighbors=21...

[CV 5/5; 1121/1980] START leaf\_size=31, n\_neighbors=32...

[CV 2/5; 1116/1980] END leaf\_size=31, n\_neighbors=27;; score=0.594 total time=0.0s

[CV 3/5; 1116/1980] START leaf\_size=31, n\_neighbors=27...

[CV 4/5; 1111/1980] END leaf\_size=31, n\_neighbors=22;; score=0.600 total time=0.0s

[CV 5/5; 1111/1980] START leaf\_size=31, n\_neighbors=22...

[CV 3/5; 1117/1980] END leaf\_size=31, n\_neighbors=28;; score=0.568 total time=0.0s

[CV 4/5; 1117/1980] START leaf\_size=31, n\_neighbors=28...

[CV 2/5; 1113/1980] END leaf\_size=31, n\_neighbors=24;; score=0.596 total time=0.0s

[CV 3/5; 1113/1980] START leaf\_size=31, n\_neighbors=24...

[CV 5/5; 1118/1980] END leaf\_size=31, n\_neighbors=29;; score=0.639 total time=0.0s

[CV 1/5; 1119/1980] START leaf\_size=31, n\_neighbors=30...

[CV 3/5; 1120/1980] END leaf\_size=31, n\_neighbors=31;; score=0.570 total time=0.0s

[CV 4/5; 1120/1980] START leaf\_size=31, n\_neighbors=31...

[CV 5/5; 1114/1980] END leaf\_size=31, n\_neighbors=25;; score=0.647 total time=0.0s

[CV 1/5; 1115/1980] START leaf\_size=31, n\_neighbors=26...

[CV 3/5; 1110/1980] END leaf\_size=31, n\_neighbors=21;; score=0.559 total time=0.0s

[CV 3/5; 1116/1980] END leaf\_size=31, n\_neighbors=27;; score=0.568 total time=0.0s

[CV 4/5; 1116/1980] START leaf\_size=31, n\_neighbors=27...

[CV 3/5; 1123/1980] START leaf\_size=31, n\_neighbors=34...

[CV 5/5; 1121/1980] END leaf\_size=31, n\_neighbors=32;; score=0.628 total time=0.0s  
 [CV 1/5; 1122/1980] START leaf\_size=31, n\_neighbors=33..  
 [CV 5/5; 1111/1980] END leaf\_size=31, n\_neighbors=22;; score=0.628 total time=0.0s  
 [CV 1/5; 1112/1980] START leaf\_size=31, n\_neighbors=23..  
 [CV 4/5; 1108/1980] END leaf\_size=31, n\_neighbors=19;; score=0.589 total time=0.0s  
 [CV 5/5; 1108/1980] START leaf\_size=31, n\_neighbors=19..  
 [CV 4/5; 1117/1980] END leaf\_size=31, n\_neighbors=28;; score=0.597 total time=0.0s  
 [CV 5/5; 1117/1980] START leaf\_size=31, n\_neighbors=28..  
 [CV 1/5; 1119/1980] END leaf\_size=31, n\_neighbors=30;; score=0.639 total time=0.0s  
 [CV 2/5; 1119/1980] START leaf\_size=31, n\_neighbors=30..  
 [CV 3/5; 1113/1980] END leaf\_size=31, n\_neighbors=24;; score=0.564 total time=0.0s  
 [CV 4/5; 1113/1980] START leaf\_size=31, n\_neighbors=24..  
 [CV 1/5; 1115/1980] END leaf\_size=31, n\_neighbors=26;; score=0.639 total time=0.0s  
 [CV 2/5; 1115/1980] START leaf\_size=31, n\_neighbors=26..  
 [CV 4/5; 1120/1980] END leaf\_size=31, n\_neighbors=31;; score=0.595 total time=0.0s  
 [CV 5/5; 1120/1980] START leaf\_size=31, n\_neighbors=31..  
 [CV 4/5; 1116/1980] END leaf\_size=31, n\_neighbors=27;; score=0.593 total time=0.0s  
 [CV 5/5; 1116/1980] START leaf\_size=31, n\_neighbors=27..  
 [CV 3/5; 1123/1980] END leaf\_size=31, n\_neighbors=34;; score=0.577 total time=0.0s  
 [CV 4/5; 1123/1980] START leaf\_size=31, n\_neighbors=34..  
 [CV 5/5; 1117/1980] END leaf\_size=31, n\_neighbors=28;; score=0.641 total time=0.0s  
 [CV 1/5; 1118/1980] START leaf\_size=31, n\_neighbors=29..  
 [CV 1/5; 1112/1980] END leaf\_size=31, n\_neighbors=23;; score=0.646 total time=0.0s  
 [CV 1/5; 1122/1980] END leaf\_size=31, n\_neighbors=33;; score=0.646 total time=0.0s  
 [CV 2/5; 1122/1980] START leaf\_size=31, n\_neighbors=33..  
 [CV 1/5; 1125/1980] START leaf\_size=31, n\_neighbors=36..  
 [CV 2/5; 1119/1980] END leaf\_size=31, n\_neighbors=30;; score=0.607 total time=0.0s  
 [CV 3/5; 1119/1980] START leaf\_size=31, n\_neighbors=30..  
 [CV 5/5; 1108/1980] END leaf\_size=31, n\_neighbors=19;; score=0.626 total time=0.0s  
 [CV 4/5; 1126/1980] START leaf\_size=31, n\_neighbors=37..  
 [CV 2/5; 1115/1980] END leaf\_size=31, n\_neighbors=26;; score=0.600 total time=0.0s  
 [CV 5/5; 1120/1980] END leaf\_size=31, n\_neighbors=31;; score=0.634 total time=

0.0s  
 [CV 1/5; 1121/1980] START leaf\_size=31, n\_neighbors=32...  
 [CV 2/5; 1128/1980] START leaf\_size=31, n\_neighbors=39...  
 [CV 5/5; 1116/1980] END leaf\_size=31, n\_neighbors=27;; score=0.630 total time=0.0s  
 [CV 4/5; 1113/1980] END leaf\_size=31, n\_neighbors=24;; score=0.597 total time=0.0s  
 [CV 5/5; 1129/1980] START leaf\_size=31, n\_neighbors=40...  
 [CV 3/5; 1131/1980] START leaf\_size=31, n\_neighbors=42...  
 [CV 1/5; 1118/1980] END leaf\_size=31, n\_neighbors=29;; score=0.646 total time=0.0s  
 [CV 2/5; 1118/1980] START leaf\_size=31, n\_neighbors=29...  
 [CV 4/5; 1123/1980] END leaf\_size=31, n\_neighbors=34;; score=0.597 total time=0.0s  
 [CV 5/5; 1123/1980] START leaf\_size=31, n\_neighbors=34...  
 [CV 2/5; 1122/1980] END leaf\_size=31, n\_neighbors=33;; score=0.607 total time=0.0s  
 [CV 3/5; 1122/1980] START leaf\_size=31, n\_neighbors=33...  
 [CV 3/5; 1119/1980] END leaf\_size=31, n\_neighbors=30;; score=0.579 total time=0.0s  
 [CV 4/5; 1119/1980] START leaf\_size=31, n\_neighbors=30...  
 [CV 1/5; 1125/1980] END leaf\_size=31, n\_neighbors=36;; score=0.644 total time=0.0s  
 [CV 2/5; 1125/1980] START leaf\_size=31, n\_neighbors=36...  
 [CV 2/5; 1128/1980] END leaf\_size=31, n\_neighbors=39;; score=0.609 total time=0.0s  
 [CV 1/5; 1121/1980] END leaf\_size=31, n\_neighbors=32;; score=0.639 total time= 0.0s  
  
 [CV 2/5; 1121/1980] START leaf\_size=31, n\_neighbors=32...  
 [CV 3/5; 1128/1980] START leaf\_size=31, n\_neighbors=39...  
 [CV 2/5; 1118/1980] END leaf\_size=31, n\_neighbors=29;; score=0.600 total time=0.0s  
 [CV 3/5; 1118/1980] START leaf\_size=31, n\_neighbors=29...  
 [CV 5/5; 1129/1980] END leaf\_size=31, n\_neighbors=40;; score=0.617 total time=0.0s  
 [CV 1/5; 1130/1980] START leaf\_size=31, n\_neighbors=41...  
 [CV 5/5; 1123/1980] END leaf\_size=31, n\_neighbors=34;; score=0.634 total time=0.0s  
 [CV 1/5; 1124/1980] START leaf\_size=31, n\_neighbors=35...  
 [CV 3/5; 1122/1980] END leaf\_size=31, n\_neighbors=33;; score=0.570 total time=0.0s  
 [CV 4/5; 1122/1980] START leaf\_size=31, n\_neighbors=33...  
 [CV 4/5; 1126/1980] END leaf\_size=31, n\_neighbors=37;; score=0.610 total time=0.0s  
 [CV 5/5; 1126/1980] START leaf\_size=31, n\_neighbors=37...  
 [CV 4/5; 1119/1980] END leaf\_size=31, n\_neighbors=30;; score=0.595 total time=0.0s  
 [CV 5/5; 1119/1980] START leaf\_size=31, n\_neighbors=30...

[CV 3/5; 1131/1980] END leaf\_size=31, n\_neighbors=42;; score=0.564 total time=0.0s  
 [CV 4/5; 1131/1980] START leaf\_size=31, n\_neighbors=42...  
 [CV 2/5; 1125/1980] END leaf\_size=31, n\_neighbors=36;; score=0.616 total time=0.0s  
 [CV 3/5; 1125/1980] START leaf\_size=31, n\_neighbors=36...  
 [CV 2/5; 1121/1980] END leaf\_size=31, n\_neighbors=32;; score=0.605 total time=0.0s  
 [CV 3/5; 1121/1980] START leaf\_size=31, n\_neighbors=32...  
 [CV 3/5; 1128/1980] END leaf\_size=31, n\_neighbors=39;; score=0.575 total time=0.0s  
 [CV 4/5; 1128/1980] START leaf\_size=31, n\_neighbors=39...  
 [CV 3/5; 1118/1980] END leaf\_size=31, n\_neighbors=29;; score=0.577 total time=0.0s  
 [CV 4/5; 1122/1980] END leaf\_size=31, n\_neighbors=33;; score=0.597 total time=0.0s  
 [CV 1/5; 1124/1980] END leaf\_size=31, n\_neighbors=35;; score=0.650 total time=0.0s  
 [CV 2/5; 1124/1980] START leaf\_size=31, n\_neighbors=35...  
 [CV 5/5; 1122/1980] START leaf\_size=31, n\_neighbors=33...  
 [CV 1/5; 1130/1980] END leaf\_size=31, n\_neighbors=41;; score=0.665 total time=0.0s  
 [CV 2/5; 1130/1980] START leaf\_size=31, n\_neighbors=41...  
 [CV 1/5; 1133/1980] START leaf\_size=31, n\_neighbors=44...  
 [CV 5/5; 1119/1980] END leaf\_size=31, n\_neighbors=30;; score=0.632 total time=0.0s  
 [CV 1/5; 1120/1980] START leaf\_size=31, n\_neighbors=31...  
 [CV 5/5; 1126/1980] END leaf\_size=31, n\_neighbors=37;; score=0.628 total time=0.0s  
 [CV 1/5; 1127/1980] START leaf\_size=31, n\_neighbors=38...  
 [CV 3/5; 1125/1980] END leaf\_size=31, n\_neighbors=36;; score=0.566 total time=0.0s  
 [CV 4/5; 1125/1980] START leaf\_size=31, n\_neighbors=36...  
 [CV 3/5; 1121/1980] END leaf\_size=31, n\_neighbors=32;; score=0.577 total time=0.0s  
 [CV 4/5; 1121/1980] START leaf\_size=31, n\_neighbors=32...  
 [CV 4/5; 1128/1980] END leaf\_size=31, n\_neighbors=39;; score=0.602 total time=0.0s  
 [CV 5/5; 1128/1980] START leaf\_size=31, n\_neighbors=39...  
 [CV 5/5; 1122/1980] END leaf\_size=31, n\_neighbors=33;; score=0.630 total time=0.0s  
 [CV 1/5; 1123/1980] START leaf\_size=31, n\_neighbors=34...  
 [CV 2/5; 1124/1980] END leaf\_size=31, n\_neighbors=35;; score=0.607 total time=0.0s  
 [CV 3/5; 1124/1980] START leaf\_size=31, n\_neighbors=35...  
 [CV 1/5; 1133/1980] END leaf\_size=31, n\_neighbors=44;; score=0.667 total time=0.0s  
 [CV 2/5; 1133/1980] START leaf\_size=31, n\_neighbors=44...

[CV 2/5; 1130/1980] END leaf\_size=31, n\_neighbors=41;; score=0.618 total time=0.0s  
 [CV 3/5; 1130/1980] START leaf\_size=31, n\_neighbors=41...  
 [CV 4/5; 1131/1980] END leaf\_size=31, n\_neighbors=42;; score=0.608 total time=0.1s  
 [CV 5/5; 1131/1980] START leaf\_size=31, n\_neighbors=42...  
 [CV 1/5; 1120/1980] END leaf\_size=31, n\_neighbors=31;; score=0.644 total time=0.0s  
 [CV 4/5; 1134/1980] START leaf\_size=31, n\_neighbors=45...  
 [CV 4/5; 1121/1980] END leaf\_size=31, n\_neighbors=32;; score=0.593 total time=0.0s  
 [CV 2/5; 1136/1980] START leaf\_size=31, n\_neighbors=47...  
 [CV 4/5; 1125/1980] END leaf\_size=31, n\_neighbors=36;; score=0.600 total time=0.0s  
 [CV 5/5; 1125/1980] START leaf\_size=31, n\_neighbors=36...  
 [CV 5/5; 1128/1980] END leaf\_size=31, n\_neighbors=39;; score=0.636 total time=0.0s  
 [CV 1/5; 1129/1980] START leaf\_size=31, n\_neighbors=40...  
 [CV 3/5; 1124/1980] END leaf\_size=31, n\_neighbors=35;; score=0.572 total time=0.0s  
 [CV 4/5; 1124/1980] START leaf\_size=31, n\_neighbors=35...  
 [CV 2/5; 1133/1980] END leaf\_size=31, n\_neighbors=44;; score=0.613 total time=0.0s  
 [CV 3/5; 1133/1980] START leaf\_size=31, n\_neighbors=44...  
 [CV 3/5; 1130/1980] END leaf\_size=31, n\_neighbors=41;; score=0.568 total time=0.0s  
 [CV 4/5; 1130/1980] START leaf\_size=31, n\_neighbors=41...  
 [CV 1/5; 1123/1980] END leaf\_size=31, n\_neighbors=34;; score=0.644 total time=0.0s  
 [CV 2/5; 1123/1980] START leaf\_size=31, n\_neighbors=34...  
 [CV 1/5; 1127/1980] END leaf\_size=31, n\_neighbors=38;; score=0.652 total time=0.0s  
 [CV 2/5; 1127/1980] START leaf\_size=31, n\_neighbors=38...  
 [CV 5/5; 1131/1980] END leaf\_size=31, n\_neighbors=42;; score=0.621 total time=0.0s  
 [CV 1/5; 1132/1980] START leaf\_size=31, n\_neighbors=43...  
 [CV 4/5; 1134/1980] END leaf\_size=31, n\_neighbors=45;; score=0.600 total time=0.0s  
 [CV 5/5; 1134/1980] START leaf\_size=31, n\_neighbors=45...  
 [CV 2/5; 1136/1980] END leaf\_size=31, n\_neighbors=47;; score=0.611 total time=0.0s  
 [CV 3/5; 1136/1980] START leaf\_size=31, n\_neighbors=47...  
 [CV 3/5; 1133/1980] END leaf\_size=31, n\_neighbors=44;; score=0.570 total time=0.0s  
 [CV 4/5; 1133/1980] START leaf\_size=31, n\_neighbors=44...  
 [CV 1/5; 1129/1980] END leaf\_size=31, n\_neighbors=40;; score=0.661 total time=0.0s  
 [CV 2/5; 1129/1980] START leaf\_size=31, n\_neighbors=40...

[CV 5/5; 1125/1980] END leaf\_size=31, n\_neighbors=36;; score=0.628 total time=0.0s  
 [CV 1/5; 1126/1980] START leaf\_size=31, n\_neighbors=37...  
 [CV 4/5; 1124/1980] END leaf\_size=31, n\_neighbors=35;; score=0.604 total time=0.0s  
 [CV 5/5; 1124/1980] START leaf\_size=31, n\_neighbors=35...  
 [CV 4/5; 1130/1980] END leaf\_size=31, n\_neighbors=41;; score=0.610 total time=0.0s  
 [CV 5/5; 1130/1980] START leaf\_size=31, n\_neighbors=41...  
 [CV 2/5; 1123/1980] END leaf\_size=31, n\_neighbors=34;; score=0.600 total time=0.0s  
 [CV 5/5; 1137/1980] START leaf\_size=31, n\_neighbors=48...  
 [CV 1/5; 1132/1980] END leaf\_size=31, n\_neighbors=43;; score=0.674 total time=0.0s  
 [CV 2/5; 1132/1980] START leaf\_size=31, n\_neighbors=43...  
 [CV 5/5; 1134/1980] END leaf\_size=31, n\_neighbors=45;; score=0.619 total time=0.0s  
 [CV 1/5; 1135/1980] START leaf\_size=31, n\_neighbors=46...  
 [CV 2/5; 1127/1980] END leaf\_size=31, n\_neighbors=38;; score=0.613 total time=0.0s  
 [CV 3/5; 1127/1980] START leaf\_size=31, n\_neighbors=38...  
 [CV 4/5; 1133/1980] END leaf\_size=31, n\_neighbors=44;; score=0.597 total time=0.0s  
 [CV 5/5; 1133/1980] START leaf\_size=31, n\_neighbors=44...  
 [CV 3/5; 1136/1980] END leaf\_size=31, n\_neighbors=47;; score=0.572 total time=0.0s  
 [CV 4/5; 1136/1980] START leaf\_size=31, n\_neighbors=47...  
 [CV 2/5; 1129/1980] END leaf\_size=31, n\_neighbors=40;; score=0.611 total time=0.0s  
 [CV 5/5; 1130/1980] END leaf\_size=31, n\_neighbors=41;; score=0.619 total time=0.0s  
 [CV 1/5; 1131/1980] START leaf\_size=31,  
 n\_neighbors=42...[CV 3/5; 1129/1980] START leaf\_size=31,  
 n\_neighbors=40...  
  
 [CV 5/5; 1124/1980] END leaf\_size=31, n\_neighbors=35;; score=0.639 total time=0.0s  
 [CV 1/5; 1126/1980] END leaf\_size=31, n\_neighbors=37;; score=0.657 total time=0.0s  
 [CV 3/5; 1139/1980] START leaf\_size=31,  
 n\_neighbors=50...[CV 2/5; 1126/1980] START leaf\_size=31,  
 n\_neighbors=37...  
  
 [CV 5/5; 1137/1980] END leaf\_size=31, n\_neighbors=48;; score=0.630 total time=0.0s  
 [CV 1/5; 1138/1980] START leaf\_size=31, n\_neighbors=49...  
 [CV 1/5; 1135/1980] END leaf\_size=31, n\_neighbors=46;; score=0.672 total time=0.0s



[CV 2/5; 1135/1980] START leaf\_size=31, n\_neighbors=46...  
 [CV 2/5; 1132/1980] END leaf\_size=31, n\_neighbors=43;; score=0.616 total time=0.0s  
 [CV 3/5; 1132/1980] START leaf\_size=31, n\_neighbors=43...  
 [CV 5/5; 1133/1980] END leaf\_size=31, n\_neighbors=44;; score=0.615 total time=0.0s  
 [CV 1/5; 1134/1980] START leaf\_size=31, n\_neighbors=45...  
 [CV 1/5; 1131/1980] END leaf\_size=31, n\_neighbors=42;; score=0.667 total time=0.0s  
 [CV 3/5; 1129/1980] END leaf\_size=31, n\_neighbors=40;; score=0.572 total time=0.0s  
 [CV 2/5; 1131/1980] START leaf\_size=31, n\_neighbors=42...  
  
 [CV 4/5; 1129/1980] START leaf\_size=31, n\_neighbors=40...  
 [CV 3/5; 1127/1980] END leaf\_size=31, n\_neighbors=38;; score=0.566 total time=0.0s  
 [CV 4/5; 1127/1980] START leaf\_size=31, n\_neighbors=38...  
 [CV 4/5; 1136/1980] END leaf\_size=31, n\_neighbors=47;; score=0.589 total time=0.0s  
 [CV 5/5; 1136/1980] START leaf\_size=31, n\_neighbors=47...  
 [CV 1/5; 1138/1980] END leaf\_size=31, n\_neighbors=49;; score=0.676 total time=0.0s  
 [CV 2/5; 1138/1980] START leaf\_size=31, n\_neighbors=49...  
 [CV 3/5; 1139/1980] END leaf\_size=31, n\_neighbors=50;; score=0.557 total time=0.0s  
 [CV 4/5; 1139/1980] START leaf\_size=31, n\_neighbors=50...  
 [CV 2/5; 1126/1980] END leaf\_size=31, n\_neighbors=37;; score=0.607 total time=0.0s  
 [CV 3/5; 1126/1980] START leaf\_size=31, n\_neighbors=37...  
 [CV 2/5; 1135/1980] END leaf\_size=31, n\_neighbors=46;; score=0.616 total time=0.0s  
 [CV 3/5; 1135/1980] START leaf\_size=31, n\_neighbors=46...  
 [CV 3/5; 1132/1980] END leaf\_size=31, n\_neighbors=43;; score=0.566 total time=0.0s  
 [CV 4/5; 1132/1980] START leaf\_size=31, n\_neighbors=43...  
 [CV 1/5; 1134/1980] END leaf\_size=31, n\_neighbors=45;; score=0.678 total time=0.0s  
 [CV 2/5; 1134/1980] START leaf\_size=31, n\_neighbors=45...  
 [CV 4/5; 1129/1980] END leaf\_size=31, n\_neighbors=40;; score=0.595 total time=0.0s  
 [CV 2/5; 1131/1980] END leaf\_size=31, n\_neighbors=42;; score=0.618 total time=0.0s  
 [CV 1/5; 1141/1980] START leaf\_size=31, n\_neighbors=52...  
 [CV 4/5; 1142/1980] START leaf\_size=31, n\_neighbors=53...  
 [CV 5/5; 1136/1980] END leaf\_size=31, n\_neighbors=47;; score=0.623 total time=0.0s  
 [CV 1/5; 1137/1980] START leaf\_size=31, n\_neighbors=48...  
 [CV 2/5; 1138/1980] END leaf\_size=31, n\_neighbors=49;; score=0.622 total time=

```

0.0s
[CV 3/5; 1138/1980] START leaf_size=31, n_neighbors=49...
[CV 3/5; 1126/1980] END leaf_size=31, n_neighbors=37;; score=0.568 total time=
0.0s
[CV 4/5; 1139/1980] END leaf_size=31, n_neighbors=50;; score=0.597 total time=
0.0s
[CV 5/5; 1139/1980] START leaf_size=31, n_neighbors=50...
[CV 3/5; 1135/1980] END leaf_size=31, n_neighbors=46;; score=0.572 total time=
0.0s
[CV 4/5; 1135/1980] START leaf_size=31, n_neighbors=46...
[CV 2/5; 1144/1980] START leaf_size=31, n_neighbors=55...
[CV 4/5; 1132/1980] END leaf_size=31, n_neighbors=43;; score=0.600 total time=
0.0s
[CV 5/5; 1132/1980] START leaf_size=31, n_neighbors=43...
[CV 4/5; 1127/1980] END leaf_size=31, n_neighbors=38;; score=0.602 total time=
0.0s
[CV 5/5; 1127/1980] START leaf_size=31, n_neighbors=38...
[CV 2/5; 1134/1980] END leaf_size=31, n_neighbors=45;; score=0.611 total time=
0.0s
[CV 3/5; 1134/1980] START leaf_size=31, n_neighbors=45...
[CV 4/5; 1142/1980] END leaf_size=31, n_neighbors=53;; score=0.600 total time=
0.0s
[CV 5/5; 1142/1980] START leaf_size=31, n_neighbors=53...
[CV 3/5; 1138/1980] END leaf_size=31, n_neighbors=49;; score=0.568 total time=
0.0s
[CV 4/5; 1138/1980] START leaf_size=31, n_neighbors=49...
[CV 5/5; 1139/1980] END leaf_size=31, n_neighbors=50;; score=0.619 total time=
0.0s
[CV 1/5; 1140/1980] START leaf_size=31, n_neighbors=51...
[CV 2/5; 1144/1980] END leaf_size=31, n_neighbors=55;; score=0.618 total time=
0.0s
[CV 3/5; 1144/1980] START leaf_size=31, n_neighbors=55...
[CV 1/5; 1141/1980] END leaf_size=31, n_neighbors=52;; score=0.676 total time=
0.1s[CV 3/5; 1134/1980] END leaf_size=31, n_neighbors=45;; score=0.575 total
time= 0.0s
[CV 5/5; 1142/1980] END leaf_size=31, n_neighbors=53;; score=0.613 total time=
0.0s
[CV 1/5; 1143/1980] START leaf_size=31, n_neighbors=54...
[CV 5/5; 1145/1980] START leaf_size=31, n_neighbors=56...
[CV 4/5; 1138/1980] END leaf_size=31, n_neighbors=49;; score=0.593 total time=
0.0s
[CV 5/5; 1138/1980] START leaf_size=31, n_neighbors=49...
[CV 1/5; 1140/1980] END leaf_size=31, n_neighbors=51;; score=0.680 total time=
0.0s
[CV 2/5; 1140/1980] START leaf_size=31, n_neighbors=51...

[CV 2/5; 1141/1980] START leaf_size=31, n_neighbors=52...
[CV 3/5; 1144/1980] END leaf_size=31, n_neighbors=55;; score=0.564 total time=

```

```

0.0s
[CV 4/5; 1144/1980] START leaf_size=31, n_neighbors=55...
[CV 4/5; 1135/1980] END leaf_size=31, n_neighbors=46;; score=0.597 total time=
0.1s
[CV 5/5; 1135/1980] START leaf_size=31, n_neighbors=46...
[CV 1/5; 1143/1980] END leaf_size=31, n_neighbors=54;; score=0.667 total time=
0.0s
[CV 2/5; 1143/1980] START leaf_size=31, n_neighbors=54...
[CV 5/5; 1145/1980] END leaf_size=31, n_neighbors=56;; score=0.613 total time=
0.0s
[CV 1/5; 1146/1980] START leaf_size=31, n_neighbors=57...
[CV 2/5; 1140/1980] END leaf_size=31, n_neighbors=51;; score=0.618 total time=
0.0s
[CV 3/5; 1140/1980] START leaf_size=31,
n_neighbors=51...[CV 1/5; 1137/1980] END leaf_size=31,
n_neighbors=48;; score=0.672 total time= 0.1s

[CV 2/5; 1137/1980] START leaf_size=31, n_neighbors=48...
[CV 5/5; 1138/1980] END leaf_size=31, n_neighbors=49;; score=0.623 total time=
0.0s
[CV 1/5; 1139/1980] START leaf_size=31, n_neighbors=50...
[CV 5/5; 1132/1980] END leaf_size=31, n_neighbors=43;; score=0.615 total time=
0.1s
[CV 3/5; 1147/1980] START leaf_size=31, n_neighbors=58...
[CV 2/5; 1141/1980] END leaf_size=31, n_neighbors=52;; score=0.611 total time=
0.0s
[CV 3/5; 1141/1980] START leaf_size=31, n_neighbors=52...
[CV 5/5; 1127/1980] END leaf_size=31, n_neighbors=38;; score=0.634 total time=
0.1s
[CV 1/5; 1128/1980] START leaf_size=31, n_neighbors=39...
[CV 4/5; 1144/1980] END leaf_size=31, n_neighbors=55;; score=0.593 total time=
0.0s
[CV 5/5; 1144/1980] START leaf_size=31, n_neighbors=55...
[CV 5/5; 1135/1980] END leaf_size=31, n_neighbors=46;; score=0.619 total time=
0.0s
[CV 1/5; 1136/1980] START leaf_size=31, n_neighbors=47...
[CV 1/5; 1146/1980] END leaf_size=31, n_neighbors=57;; score=0.665 total time=
0.0s
[CV 2/5; 1146/1980] START leaf_size=31, n_neighbors=57...
[CV 2/5; 1143/1980] END leaf_size=31, n_neighbors=54;; score=0.618 total time=
0.0s
[CV 3/5; 1143/1980] START leaf_size=31, n_neighbors=54...
[CV 3/5; 1140/1980] END leaf_size=31, n_neighbors=51;; score=0.566 total time=
0.0s
[CV 4/5; 1140/1980] START leaf_size=31, n_neighbors=51...
[CV 1/5; 1139/1980] END leaf_size=31, n_neighbors=50;; score=0.678 total time=
0.0s
[CV 2/5; 1139/1980] START leaf_size=31, n_neighbors=50...

```

[CV 3/5; 1141/1980] END leaf\_size=31, n\_neighbors=52;; score=0.566 total time=0.0s  
 [CV 4/5; 1141/1980] START leaf\_size=31, n\_neighbors=52...  
 [CV 5/5; 1144/1980] END leaf\_size=31, n\_neighbors=55;; score=0.608 total time=0.0s  
 [CV 1/5; 1145/1980] START leaf\_size=31, n\_neighbors=56...  
 [CV 1/5; 1136/1980] END leaf\_size=31, n\_neighbors=47;; score=0.676 total time=0.0s  
 [CV 4/5; 1140/1980] END leaf\_size=31, n\_neighbors=51;; score=0.602 total time=0.0s  
 [CV 5/5; 1140/1980] START leaf\_size=31, n\_neighbors=51...  
 [CV 3/5; 1143/1980] END leaf\_size=31, n\_neighbors=54;; score=0.562 total time=0.0s  
 [CV 2/5; 1137/1980] END leaf\_size=31, n\_neighbors=48;; score=0.609 total time=0.1s  
 [CV 4/5; 1143/1980] START leaf\_size=31, n\_neighbors=54...  
 [CV 3/5; 1137/1980] START leaf\_size=31, n\_neighbors=48...  
 [CV 1/5; 1128/1980] END leaf\_size=31, n\_neighbors=39;; score=0.654 total time=0.0s  
 [CV 3/5; 1147/1980] END leaf\_size=31, n\_neighbors=58;; score=0.549 total time=0.1s  
 [CV 4/5; 1147/1980] START leaf\_size=31, n\_neighbors=58...  
 [CV 1/5; 1149/1980] START leaf\_size=31, n\_neighbors=60...  
 [CV 2/5; 1146/1980] END leaf\_size=31, n\_neighbors=57;; score=0.616 total time=0.0s  
 [CV 3/5; 1146/1980] START leaf\_size=31, n\_neighbors=57...  
 [CV 4/5; 1150/1980] START leaf\_size=31, n\_neighbors=61...  
 [CV 4/5; 1141/1980] END leaf\_size=31, n\_neighbors=52;; score=0.597 total time=0.0s  
 [CV 5/5; 1141/1980] START leaf\_size=31, n\_neighbors=52...  
 [CV 2/5; 1139/1980] END leaf\_size=31, n\_neighbors=50;; score=0.603 total time=0.0s  
 [CV 2/5; 1152/1980] START leaf\_size=31, n\_neighbors=63...  
 [CV 1/5; 1145/1980] END leaf\_size=31, n\_neighbors=56;; score=0.670 total time=0.0s  
 [CV 2/5; 1145/1980] START leaf\_size=31, n\_neighbors=56...  
 [CV 4/5; 1143/1980] END leaf\_size=31, n\_neighbors=54;; score=0.595 total time=0.0s  
 [CV 5/5; 1143/1980] START leaf\_size=31, n\_neighbors=54...  
 [CV 5/5; 1140/1980] END leaf\_size=31, n\_neighbors=51;; score=0.621 total time=0.0s  
 [CV 3/5; 1137/1980] END leaf\_size=31, n\_neighbors=48;; score=0.562 total time=0.0s  
 [CV 4/5; 1137/1980] START leaf\_size=31, n\_neighbors=48...  
 [CV 5/5; 1153/1980] START leaf\_size=31, n\_neighbors=64...  
 [CV 4/5; 1147/1980] END leaf\_size=31, n\_neighbors=58;; score=0.595 total time=0.0s  
 [CV 5/5; 1147/1980] START leaf\_size=31, n\_neighbors=58...

[CV 3/5; 1146/1980] END leaf\_size=31, n\_neighbors=57;; score=0.559 total time=0.0s  
 [CV 4/5; 1146/1980] START leaf\_size=31, n\_neighbors=57...  
 [CV 5/5; 1141/1980] END leaf\_size=31, n\_neighbors=52;; score=0.619 total time=0.0s  
 [CV 1/5; 1142/1980] START leaf\_size=31, n\_neighbors=53...  
 [CV 4/5; 1150/1980] END leaf\_size=31, n\_neighbors=61;; score=0.604 total time=0.0s  
 [CV 5/5; 1150/1980] START leaf\_size=31, n\_neighbors=61...  
 [CV 2/5; 1152/1980] END leaf\_size=31, n\_neighbors=63;; score=0.609 total time=0.0s  
 [CV 3/5; 1152/1980] START leaf\_size=31, n\_neighbors=63...  
 [CV 1/5; 1149/1980] END leaf\_size=31, n\_neighbors=60;; score=0.667 total time=0.0s  
 [CV 2/5; 1149/1980] START leaf\_size=31, n\_neighbors=60...  
 [CV 5/5; 1143/1980] END leaf\_size=31, n\_neighbors=54;; score=0.608 total time=0.0s  
 [CV 1/5; 1144/1980] START leaf\_size=31, n\_neighbors=55...  
 [CV 2/5; 1145/1980] END leaf\_size=31, n\_neighbors=56;; score=0.609 total time=0.0s  
 [CV 3/5; 1145/1980] START leaf\_size=31, n\_neighbors=56...  
 [CV 4/5; 1146/1980] END leaf\_size=31, n\_neighbors=57;; score=0.597 total time=0.0s  
 [CV 5/5; 1146/1980] START leaf\_size=31, n\_neighbors=57...  
 [CV 4/5; 1137/1980] END leaf\_size=31, n\_neighbors=48;; score=0.589 total time=0.0s  
 [CV 3/5; 1155/1980] START leaf\_size=31, n\_neighbors=66...  
 [CV 5/5; 1147/1980] END leaf\_size=31, n\_neighbors=58;; score=0.610 total time=0.0s  
 [CV 1/5; 1148/1980] START leaf\_size=31, n\_neighbors=59...  
 [CV 5/5; 1153/1980] END leaf\_size=31, n\_neighbors=64;; score=0.613 total time=0.0s  
 [CV 1/5; 1154/1980] START leaf\_size=31, n\_neighbors=65...  
 [CV 1/5; 1142/1980] END leaf\_size=31, n\_neighbors=53;; score=0.678 total time=0.0s  
 [CV 2/5; 1142/1980] START leaf\_size=31, n\_neighbors=53...  
 [CV 5/5; 1150/1980] END leaf\_size=31, n\_neighbors=61;; score=0.606 total time=0.0s  
 [CV 1/5; 1151/1980] START leaf\_size=31, n\_neighbors=62...  
 [CV 3/5; 1152/1980] END leaf\_size=31, n\_neighbors=63;; score=0.562 total time=0.0s  
 [CV 4/5; 1152/1980] START leaf\_size=31, n\_neighbors=63...  
 [CV 1/5; 1144/1980] END leaf\_size=31, n\_neighbors=55;; score=0.667 total time=0.0s  
 [CV 1/5; 1157/1980] START leaf\_size=31, n\_neighbors=68...  
 [CV 2/5; 1149/1980] END leaf\_size=31, n\_neighbors=60;; score=0.605 total time=0.0s  
 [CV 3/5; 1149/1980] START leaf\_size=31, n\_neighbors=60...

[CV 3/5; 1145/1980] END leaf\_size=31, n\_neighbors=56;; score=0.551 total time=0.0s  
 [CV 4/5; 1145/1980] START leaf\_size=31, n\_neighbors=56...  
 [CV 5/5; 1146/1980] END leaf\_size=31, n\_neighbors=57;; score=0.610 total time=0.0s  
 [CV 1/5; 1147/1980] START leaf\_size=31, n\_neighbors=58...  
 [CV 1/5; 1148/1980] END leaf\_size=31, n\_neighbors=59;; score=0.670 total time=0.0s  
 [CV 2/5; 1148/1980] START leaf\_size=31, n\_neighbors=59...  
 [CV 1/5; 1151/1980] END leaf\_size=31, n\_neighbors=62;; score=0.663 total time=0.0s  
 [CV 2/5; 1151/1980] START leaf\_size=31, n\_neighbors=62...  
 [CV 2/5; 1142/1980] END leaf\_size=31, n\_neighbors=53;; score=0.611 total time=0.0s  
 [CV 3/5; 1142/1980] START leaf\_size=31, n\_neighbors=53...  
 [CV 3/5; 1155/1980] END leaf\_size=31, n\_neighbors=66;; score=0.566 total time=0.0s  
 [CV 4/5; 1155/1980] START leaf\_size=31, n\_neighbors=66...  
 [CV 1/5; 1154/1980] END leaf\_size=31, n\_neighbors=65;; score=0.663 total time=0.0s  
 [CV 2/5; 1154/1980] START leaf\_size=31, n\_neighbors=65...  
 [CV 4/5; 1152/1980] END leaf\_size=31, n\_neighbors=63;; score=0.604 total time=0.0s  
 [CV 5/5; 1152/1980] START leaf\_size=31, n\_neighbors=63...  
 [CV 1/5; 1157/1980] END leaf\_size=31, n\_neighbors=68;; score=0.667 total time=0.0s  
 [CV 2/5; 1157/1980] START leaf\_size=31, n\_neighbors=68...  
 [CV 1/5; 1147/1980] END leaf\_size=31, n\_neighbors=58;; score=0.665 total time=0.0s  
 [CV 2/5; 1147/1980] START leaf\_size=31, n\_neighbors=58...  
 [CV 4/5; 1145/1980] END leaf\_size=31, n\_neighbors=56;; score=0.591 total time=0.0s  
 [CV 3/5; 1149/1980] END leaf\_size=31, n\_neighbors=60;; score=0.553 total time=0.0s  
 [CV 4/5; 1149/1980] START leaf\_size=31, n\_neighbors=60...  
 [CV 4/5; 1158/1980] START leaf\_size=31, n\_neighbors=69...  
 [CV 2/5; 1151/1980] END leaf\_size=31, n\_neighbors=62;; score=0.603 total time=0.0s  
 [CV 3/5; 1151/1980] START leaf\_size=31, n\_neighbors=62...  
 [CV 2/5; 1148/1980] END leaf\_size=31, n\_neighbors=59;; score=0.609 total time=0.0s  
 [CV 3/5; 1148/1980] START leaf\_size=31, n\_neighbors=59...  
 [CV 5/5; 1152/1980] END leaf\_size=31, n\_neighbors=63;; score=0.615 total time=0.0s  
 [CV 1/5; 1153/1980] START leaf\_size=31, n\_neighbors=64...  
 [CV 3/5; 1142/1980] END leaf\_size=31, n\_neighbors=53;; score=0.572 total time=0.0s  
 [CV 2/5; 1154/1980] END leaf\_size=31, n\_neighbors=65;; score=0.616 total time=

0.0s  
 [CV 4/5; 1155/1980] END leaf\_size=31, n\_neighbors=66;; score=0.574 total time=0.0s  
 [CV 5/5; 1155/1980] START leaf\_size=31, n\_neighbors=66...  
 [CV 3/5; 1154/1980] START leaf\_size=31, n\_neighbors=65...  
 [CV 2/5; 1160/1980] START leaf\_size=31, n\_neighbors=71...  
 [CV 2/5; 1157/1980] END leaf\_size=31, n\_neighbors=68;; score=0.609 total time=0.0s  
 [CV 3/5; 1157/1980] START leaf\_size=31, n\_neighbors=68...  
 [CV 2/5; 1147/1980] END leaf\_size=31, n\_neighbors=58;; score=0.609 total time=0.0s  
 [CV 5/5; 1161/1980] START leaf\_size=31, n\_neighbors=72...  
 [CV 3/5; 1151/1980] END leaf\_size=31, n\_neighbors=62;; score=0.555 total time=0.0s  
 [CV 4/5; 1151/1980] START leaf\_size=31, n\_neighbors=62...  
 [CV 4/5; 1158/1980] END leaf\_size=31, n\_neighbors=69;; score=0.582 total time=0.0s  
 [CV 5/5; 1158/1980] START leaf\_size=31, n\_neighbors=69...  
 [CV 3/5; 1148/1980] END leaf\_size=31, n\_neighbors=59;; score=0.553 total time=0.0s  
 [CV 4/5; 1148/1980] START leaf\_size=31, n\_neighbors=59...  
 [CV 4/5; 1149/1980] END leaf\_size=31, n\_neighbors=60;; score=0.602 total time=0.0s  
 [CV 5/5; 1149/1980] START leaf\_size=31, n\_neighbors=60...  
 [CV 1/5; 1153/1980] END leaf\_size=31, n\_neighbors=64;; score=0.663 total time=0.0s  
 [CV 2/5; 1153/1980] START leaf\_size=31, n\_neighbors=64...  
 [CV 3/5; 1154/1980] END leaf\_size=31, n\_neighbors=65;; score=0.566 total time=0.0s  
 [CV 4/5; 1154/1980] START leaf\_size=31, n\_neighbors=65...  
 [CV 5/5; 1155/1980] END leaf\_size=31, n\_neighbors=66;; score=0.613 total time=0.0s  
 [CV 1/5; 1156/1980] START leaf\_size=31, n\_neighbors=67...  
 [CV 2/5; 1160/1980] END leaf\_size=31, n\_neighbors=71;; score=0.616 total time=0.0s  
 [CV 3/5; 1160/1980] START leaf\_size=31, n\_neighbors=71...  
 [CV 3/5; 1157/1980] END leaf\_size=31, n\_neighbors=68;; score=0.566 total time=0.0s  
 [CV 4/5; 1157/1980] START leaf\_size=31, n\_neighbors=68...  
 [CV 5/5; 1161/1980] END leaf\_size=31, n\_neighbors=72;; score=0.613 total time=0.0s  
 [CV 1/5; 1162/1980] START leaf\_size=31, n\_neighbors=73...  
 [CV 4/5; 1151/1980] END leaf\_size=31, n\_neighbors=62;; score=0.600 total time=0.0s  
 [CV 5/5; 1151/1980] START leaf\_size=31, n\_neighbors=62...  
 [CV 4/5; 1148/1980] END leaf\_size=31, n\_neighbors=59;; score=0.604 total time=0.0s  
 [CV 5/5; 1148/1980] START leaf\_size=31, n\_neighbors=59...

[CV 5/5; 1158/1980] END leaf\_size=31, n\_neighbors=69;; score=0.621 total time=0.0s  
 [CV 1/5; 1159/1980] START leaf\_size=31, n\_neighbors=70...  
 [CV 2/5; 1153/1980] END leaf\_size=31, n\_neighbors=64;; score=0.609 total time=0.0s  
 [CV 3/5; 1153/1980] START leaf\_size=31, n\_neighbors=64...  
 [CV 5/5; 1149/1980] END leaf\_size=31, n\_neighbors=60;; score=0.604 total time=0.0s  
 [CV 1/5; 1150/1980] START leaf\_size=31, n\_neighbors=61...  
 [CV 4/5; 1154/1980] END leaf\_size=31, n\_neighbors=65;; score=0.591 total time=0.0s  
 [CV 5/5; 1154/1980] START leaf\_size=31, n\_neighbors=65...  
 [CV 1/5; 1156/1980] END leaf\_size=31, n\_neighbors=67;; score=0.663 total time=0.0s  
 [CV 2/5; 1156/1980] START leaf\_size=31, n\_neighbors=67...  
 [CV 3/5; 1160/1980] END leaf\_size=31, n\_neighbors=71;; score=0.562 total time=0.0s  
 [CV 4/5; 1157/1980] END leaf\_size=31, n\_neighbors=68;; score=0.576 total time=0.0s  
 [CV 5/5; 1157/1980] START leaf\_size=31, n\_neighbors=68...  
 [CV 1/5; 1162/1980] END leaf\_size=31, n\_neighbors=73;; score=0.663 total time=0.0s  
 [CV 2/5; 1162/1980] START leaf\_size=31, n\_neighbors=73...  
 [CV 4/5; 1160/1980] START leaf\_size=31, n\_neighbors=71...  
 [CV 5/5; 1148/1980] END leaf\_size=31, n\_neighbors=59;; score=0.610 total time=0.0s  
 [CV 5/5; 1151/1980] END leaf\_size=31, n\_neighbors=62;; score=0.610 total time=0.0s  
 [CV 1/5; 1152/1980] START leaf\_size=31, n\_neighbors=63...  
 [CV 3/5; 1163/1980] START leaf\_size=31, n\_neighbors=74...  
 [CV 3/5; 1153/1980] END leaf\_size=31, n\_neighbors=64;; score=0.562 total time=0.0s  
 [CV 4/5; 1153/1980] START leaf\_size=31, n\_neighbors=64...  
 [CV 5/5; 1154/1980] END leaf\_size=31, n\_neighbors=65;; score=0.621 total time=0.0s  
 [CV 1/5; 1155/1980] START leaf\_size=31, n\_neighbors=66...  
 [CV 1/5; 1159/1980] END leaf\_size=31, n\_neighbors=70;; score=0.663 total time=0.0s  
 [CV 2/5; 1159/1980] START leaf\_size=31, n\_neighbors=70...  
 [CV 2/5; 1156/1980] END leaf\_size=31, n\_neighbors=67;; score=0.611 total time=0.0s  
 [CV 3/5; 1156/1980] START leaf\_size=31, n\_neighbors=67...  
 [CV 1/5; 1150/1980] END leaf\_size=31, n\_neighbors=61;; score=0.665 total time=0.0s  
 [CV 2/5; 1150/1980] START leaf\_size=31, n\_neighbors=61...  
 [CV 5/5; 1157/1980] END leaf\_size=31, n\_neighbors=68;; score=0.615 total time=0.0s  
 [CV 1/5; 1158/1980] START leaf\_size=31, n\_neighbors=69...



[CV 2/5; 1162/1980] END leaf\_size=31, n\_neighbors=73;; score=0.605 total time=0.0s  
 [CV 3/5; 1162/1980] START leaf\_size=31, n\_neighbors=73...  
 [CV 4/5; 1160/1980] END leaf\_size=31, n\_neighbors=71;; score=0.587 total time=0.0s  
 [CV 5/5; 1160/1980] START leaf\_size=31, n\_neighbors=71...[CV 3/5; 1163/1980] END leaf\_size=31, n\_neighbors=74;; score=0.557 total time= 0.0s  
 [CV 4/5; 1163/1980] START leaf\_size=31, n\_neighbors=74...  
 [CV 1/5; 1152/1980] END leaf\_size=31, n\_neighbors=63;; score=0.665 total time=0.0s  
  
 [CV 4/5; 1153/1980] END leaf\_size=31, n\_neighbors=64;; score=0.593 total time=0.0s  
 [CV 1/5; 1165/1980] START leaf\_size=31, n\_neighbors=76...  
 [CV 4/5; 1166/1980] START leaf\_size=31, n\_neighbors=77...  
 [CV 1/5; 1155/1980] END leaf\_size=31, n\_neighbors=66;; score=0.663 total time=0.0s  
 [CV 2/5; 1155/1980] START leaf\_size=31, n\_neighbors=66...  
 [CV 2/5; 1159/1980] END leaf\_size=31, n\_neighbors=70;; score=0.607 total time=0.0s  
 [CV 3/5; 1159/1980] START leaf\_size=31, n\_neighbors=70...  
 [CV 3/5; 1156/1980] END leaf\_size=31, n\_neighbors=67;; score=0.564 total time=0.0s  
 [CV 4/5; 1156/1980] START leaf\_size=31, n\_neighbors=67...  
 [CV 3/5; 1162/1980] END leaf\_size=31, n\_neighbors=73;; score=0.566 total time=0.0s  
 [CV 4/5; 1162/1980] START leaf\_size=31, n\_neighbors=73...  
 [CV 1/5; 1158/1980] END leaf\_size=31, n\_neighbors=69;; score=0.663 total time=0.0s  
 [CV 2/5; 1158/1980] START leaf\_size=31, n\_neighbors=69...  
 [CV 2/5; 1150/1980] END leaf\_size=31, n\_neighbors=61;; score=0.603 total time=0.0s  
 [CV 3/5; 1150/1980] START leaf\_size=31, n\_neighbors=61...  
 [CV 4/5; 1163/1980] END leaf\_size=31, n\_neighbors=74;; score=0.591 total time=0.0s  
 [CV 5/5; 1163/1980] START leaf\_size=31, n\_neighbors=74...  
 [CV 5/5; 1160/1980] END leaf\_size=31, n\_neighbors=71;; score=0.613 total time=0.0s  
 [CV 1/5; 1161/1980] START leaf\_size=31, n\_neighbors=72...  
 [CV 1/5; 1165/1980] END leaf\_size=31, n\_neighbors=76;; score=0.667 total time=0.0s  
 [CV 2/5; 1165/1980] START leaf\_size=31, n\_neighbors=76...  
 [CV 4/5; 1166/1980] END leaf\_size=31, n\_neighbors=77;; score=0.580 total time=0.0s  
 [CV 5/5; 1166/1980] START leaf\_size=31, n\_neighbors=77...  
 [CV 2/5; 1155/1980] END leaf\_size=31, n\_neighbors=66;; score=0.609 total time=0.0s

[CV 2/5; 1168/1980] START leaf\_size=31, n\_neighbors=79...  
 [CV 3/5; 1159/1980] END leaf\_size=31, n\_neighbors=70;; score=0.559 total time=0.0s  
 [CV 4/5; 1159/1980] START leaf\_size=31, n\_neighbors=70...  
 [CV 4/5; 1156/1980] END leaf\_size=31, n\_neighbors=67;; score=0.587 total time=0.0s  
 [CV 5/5; 1156/1980] START leaf\_size=31, n\_neighbors=67...  
 [CV 2/5; 1158/1980] END leaf\_size=31, n\_neighbors=69;; score=0.609 total time=0.0s  
 [CV 3/5; 1158/1980] START leaf\_size=31, n\_neighbors=69...  
 [CV 5/5; 1163/1980] END leaf\_size=31, n\_neighbors=74;; score=0.623 total time=0.0s  
 [CV 1/5; 1164/1980] START leaf\_size=31, n\_neighbors=75...  
 [CV 3/5; 1150/1980] END leaf\_size=31, n\_neighbors=61;; score=0.557 total time=0.0s  
 [CV 5/5; 1169/1980] START leaf\_size=31, n\_neighbors=80...  
 [CV 1/5; 1161/1980] END leaf\_size=31, n\_neighbors=72;; score=0.663 total time=0.0s  
 [CV 2/5; 1161/1980] START leaf\_size=31, n\_neighbors=72...  
 [CV 5/5; 1166/1980] END leaf\_size=31, n\_neighbors=77;; score=0.617 total time=0.0s  
 [CV 1/5; 1167/1980] START leaf\_size=31, n\_neighbors=78...  
 [CV 2/5; 1165/1980] END leaf\_size=31, n\_neighbors=76;; score=0.603 total time=0.0s  
 [CV 3/5; 1165/1980] START leaf\_size=31, n\_neighbors=76...  
 [CV 4/5; 1162/1980] END leaf\_size=31, n\_neighbors=73;; score=0.591 total time=0.1s  
 [CV 5/5; 1162/1980] START leaf\_size=31, n\_neighbors=73...  
 [CV 4/5; 1159/1980] END leaf\_size=31, n\_neighbors=70;; score=0.589 total time=0.0s  
 [CV 5/5; 1159/1980] START leaf\_size=31, n\_neighbors=70...  
 [CV 3/5; 1158/1980] END leaf\_size=31, n\_neighbors=69;; score=0.568 total time=0.0s  
 [CV 2/5; 1168/1980] END leaf\_size=31, n\_neighbors=79;; score=0.598 total time=0.0s  
 [CV 3/5; 1171/1980] START leaf\_size=31, n\_neighbors=82...  
 [CV 5/5; 1156/1980] END leaf\_size=31, n\_neighbors=67;; score=0.613 total time=0.0s  
 [CV 3/5; 1168/1980] START leaf\_size=31, n\_neighbors=79...  
 [CV 1/5; 1173/1980] START leaf\_size=31, n\_neighbors=84...  
 [CV 1/5; 1164/1980] END leaf\_size=31, n\_neighbors=75;; score=0.667 total time=0.0s  
 [CV 2/5; 1164/1980] START leaf\_size=31, n\_neighbors=75...  
 [CV 2/5; 1161/1980] END leaf\_size=31, n\_neighbors=72;; score=0.607 total time=0.0s  
 [CV 3/5; 1161/1980] START leaf\_size=31, n\_neighbors=72...  
 [CV 5/5; 1162/1980] END leaf\_size=31, n\_neighbors=73;; score=0.628 total time=0.0s

[CV 1/5; 1163/1980] START leaf\_size=31, n\_neighbors=74...  
 [CV 1/5; 1167/1980] END leaf\_size=31, n\_neighbors=78;; score=0.659 total time=0.0s  
 [CV 2/5; 1167/1980] START leaf\_size=31, n\_neighbors=78...  
 [CV 5/5; 1169/1980] END leaf\_size=31, n\_neighbors=80;; score=0.628 total time=0.0s  
 [CV 3/5; 1165/1980] END leaf\_size=31, n\_neighbors=76;; score=0.557 total time= 0.0s  
 [CV 4/5; 1165/1980] START leaf\_size=31, n\_neighbors=76...  
  
 [CV 1/5; 1170/1980] START leaf\_size=31, n\_neighbors=81...  
 [CV 5/5; 1159/1980] END leaf\_size=31, n\_neighbors=70;; score=0.606 total time=0.0s  
 [CV 1/5; 1160/1980] START leaf\_size=31, n\_neighbors=71...  
 [CV 3/5; 1171/1980] END leaf\_size=31, n\_neighbors=82;; score=0.566 total time=0.0s  
 [CV 4/5; 1171/1980] START leaf\_size=31, n\_neighbors=82...  
 [CV 3/5; 1168/1980] END leaf\_size=31, n\_neighbors=79;; score=0.557 total time=0.0s  
 [CV 4/5; 1168/1980] START leaf\_size=31, n\_neighbors=79...  
 [CV 2/5; 1164/1980] END leaf\_size=31, n\_neighbors=75;; score=0.603 total time=0.0s  
 [CV 3/5; 1164/1980] START leaf\_size=31, n\_neighbors=75...  
 [CV 1/5; 1173/1980] END leaf\_size=31, n\_neighbors=84;; score=0.654 total time=0.0s  
 [CV 2/5; 1173/1980] START leaf\_size=31, n\_neighbors=84...  
 [CV 3/5; 1161/1980] END leaf\_size=31, n\_neighbors=72;; score=0.562 total time=0.0s  
 [CV 4/5; 1161/1980] START leaf\_size=31, n\_neighbors=72...  
 [CV 1/5; 1163/1980] END leaf\_size=31, n\_neighbors=74;; score=0.661 total time=0.0s  
 [CV 2/5; 1163/1980] START leaf\_size=31, n\_neighbors=74...  
 [CV 2/5; 1167/1980] END leaf\_size=31, n\_neighbors=78;; score=0.603 total time=0.0s  
 [CV 3/5; 1167/1980] START leaf\_size=31, n\_neighbors=78...  
 [CV 4/5; 1165/1980] END leaf\_size=31, n\_neighbors=76;; score=0.578 total time=0.0s  
 [CV 5/5; 1165/1980] START leaf\_size=31, n\_neighbors=76...  
 [CV 4/5; 1171/1980] END leaf\_size=31, n\_neighbors=82;; score=0.587 total time=0.0s  
 [CV 5/5; 1171/1980] START leaf\_size=31, n\_neighbors=82...  
 [CV 1/5; 1170/1980] END leaf\_size=31, n\_neighbors=81;; score=0.659 total time=0.0s  
 [CV 1/5; 1160/1980] END leaf\_size=31, n\_neighbors=71;; score=0.670 total time= 0.0s  
  
 [CV 2/5; 1170/1980] START leaf\_size=31, n\_neighbors=81...  
 [CV 4/5; 1168/1980] END leaf\_size=31, n\_neighbors=79;; score=0.584 total time=0.0s  
 [CV 5/5; 1168/1980] START leaf\_size=31, n\_neighbors=79...

[CV 4/5; 1174/1980] START leaf\_size=31, n\_neighbors=85...  
 [CV 3/5; 1164/1980] END leaf\_size=31, n\_neighbors=75;; score=0.555 total time=0.0s  
 [CV 4/5; 1164/1980] START leaf\_size=31, n\_neighbors=75...  
 [CV 4/5; 1161/1980] END leaf\_size=31, n\_neighbors=72;; score=0.593 total time=0.0s  
 [CV 2/5; 1173/1980] END leaf\_size=31, n\_neighbors=84;; score=0.603 total time=0.0s  
 [CV 3/5; 1173/1980] START leaf\_size=31, n\_neighbors=84...  
 [CV 2/5; 1176/1980] START leaf\_size=31, n\_neighbors=87...  
 [CV 2/5; 1163/1980] END leaf\_size=31, n\_neighbors=74;; score=0.607 total time=0.0s  
 [CV 5/5; 1177/1980] START leaf\_size=31, n\_neighbors=88...  
 [CV 3/5; 1167/1980] END leaf\_size=31, n\_neighbors=78;; score=0.555 total time=0.0s  
 [CV 4/5; 1167/1980] START leaf\_size=31, n\_neighbors=78...  
 [CV 5/5; 1165/1980] END leaf\_size=31, n\_neighbors=76;; score=0.621 total time=0.0s  
 [CV 1/5; 1166/1980] START leaf\_size=31, n\_neighbors=77...  
 [CV 5/5; 1171/1980] END leaf\_size=31, n\_neighbors=82;; score=0.630 total time=0.0s  
 [CV 1/5; 1172/1980] START leaf\_size=31, n\_neighbors=83...  
 [CV 5/5; 1168/1980] END leaf\_size=31, n\_neighbors=79;; score=0.619 total time=0.0s  
 [CV 1/5; 1169/1980] START leaf\_size=31, n\_neighbors=80...  
 [CV 2/5; 1170/1980] END leaf\_size=31, n\_neighbors=81;; score=0.596 total time=0.0s  
 [CV 3/5; 1170/1980] START leaf\_size=31, n\_neighbors=81...  
 [CV 4/5; 1164/1980] END leaf\_size=31, n\_neighbors=75;; score=0.591 total time=0.0s  
 [CV 5/5; 1164/1980] START leaf\_size=31, n\_neighbors=75...  
 [CV 4/5; 1174/1980] END leaf\_size=31, n\_neighbors=85;; score=0.576 total time=0.0s  
 [CV 5/5; 1174/1980] START leaf\_size=31, n\_neighbors=85...  
 [CV 3/5; 1173/1980] END leaf\_size=31, n\_neighbors=84;; score=0.555 total time=0.0s  
 [CV 4/5; 1173/1980] START leaf\_size=31, n\_neighbors=84...  
 [CV 4/5; 1167/1980] END leaf\_size=31, n\_neighbors=78;; score=0.571 total time=0.0s  
 [CV 2/5; 1176/1980] END leaf\_size=31, n\_neighbors=87;; score=0.603 total time=0.0s  
 [CV 5/5; 1167/1980] START leaf\_size=31, n\_neighbors=78...  
 [CV 3/5; 1176/1980] START leaf\_size=31, n\_neighbors=87...  
 [CV 5/5; 1177/1980] END leaf\_size=31, n\_neighbors=88;; score=0.617 total time=0.0s  
 [CV 1/5; 1178/1980] START leaf\_size=31, n\_neighbors=89...  
 [CV 1/5; 1172/1980] END leaf\_size=31, n\_neighbors=83;; score=0.650 total time=0.0s

[CV 2/5; 1172/1980] START leaf\_size=31, n\_neighbors=83...  
 [CV 1/5; 1166/1980] END leaf\_size=31, n\_neighbors=77;; score=0.667 total time=0.0s  
 [CV 2/5; 1166/1980] START leaf\_size=31, n\_neighbors=77...  
 [CV 1/5; 1169/1980] END leaf\_size=31, n\_neighbors=80;; score=0.659 total time=0.0s  
 [CV 2/5; 1169/1980] START leaf\_size=31, n\_neighbors=80...  
 [CV 5/5; 1167/1980] END leaf\_size=31, n\_neighbors=78;; score=0.628 total time=0.0s  
 [CV 1/5; 1168/1980] START leaf\_size=31, n\_neighbors=79...  
 [CV 5/5; 1164/1980] END leaf\_size=31, n\_neighbors=75;; score=0.632 total time=0.0s  
 [CV 3/5; 1170/1980] END leaf\_size=31, n\_neighbors=81;; score=0.562 total time=0.0s  
 [CV 4/5; 1170/1980] START leaf\_size=31, n\_neighbors=81...  
 [CV 4/5; 1173/1980] END leaf\_size=31, n\_neighbors=84;; score=0.582 total time=0.0s  
 [CV 5/5; 1173/1980] START leaf\_size=31, n\_neighbors=84...  
 [CV 3/5; 1179/1980] START leaf\_size=31, n\_neighbors=90...  
 [CV 3/5; 1176/1980] END leaf\_size=31, n\_neighbors=87;; score=0.562 total time=0.0s  
 [CV 4/5; 1176/1980] START leaf\_size=31, n\_neighbors=87...  
 [CV 5/5; 1174/1980] END leaf\_size=31, n\_neighbors=85;; score=0.626 total time=0.0s  
 [CV 1/5; 1175/1980] START leaf\_size=31, n\_neighbors=86...  
 [CV 1/5; 1178/1980] END leaf\_size=31, n\_neighbors=89;; score=0.646 total time=0.0s  
 [CV 2/5; 1178/1980] START leaf\_size=31, n\_neighbors=89...  
 [CV 2/5; 1172/1980] END leaf\_size=31, n\_neighbors=83;; score=0.596 total time=0.0s  
 [CV 3/5; 1172/1980] START leaf\_size=31, n\_neighbors=83...  
 [CV 2/5; 1169/1980] END leaf\_size=31, n\_neighbors=80;; score=0.594 total time=0.0s  
 [CV 3/5; 1169/1980] START leaf\_size=31, n\_neighbors=80...  
 [CV 1/5; 1168/1980] END leaf\_size=31, n\_neighbors=79;; score=0.659 total time=0.0s  
 [CV 2/5; 1166/1980] END leaf\_size=31, n\_neighbors=77;; score=0.605 total time=0.0s  
  
 [CV 3/5; 1166/1980] START leaf\_size=31, n\_neighbors=77...  
 [CV 5/5; 1173/1980] END leaf\_size=31, n\_neighbors=84;; score=0.626 total time=0.0s  
 [CV 1/5; 1174/1980] START leaf\_size=31, n\_neighbors=85...  
 [CV 4/5; 1176/1980] END leaf\_size=31, n\_neighbors=87;; score=0.584 total time=0.0s  
 [CV 5/5; 1176/1980] START leaf\_size=31, n\_neighbors=87...  
 [CV 3/5; 1179/1980] END leaf\_size=31, n\_neighbors=90;; score=0.564 total time=0.0s  
 [CV 1/5; 1181/1980] START leaf\_size=31, n\_neighbors=92...

[CV 4/5; 1179/1980] START leaf\_size=31, n\_neighbors=90...  
 [CV 4/5; 1170/1980] END leaf\_size=31, n\_neighbors=81;; score=0.587 total time=0.0s  
 [CV 5/5; 1170/1980] START leaf\_size=31, n\_neighbors=81...  
 [CV 1/5; 1175/1980] END leaf\_size=31, n\_neighbors=86;; score=0.648 total time=0.0s  
 [CV 2/5; 1175/1980] START leaf\_size=31, n\_neighbors=86...  
 [CV 2/5; 1178/1980] END leaf\_size=31, n\_neighbors=89;; score=0.600 total time=0.0s  
 [CV 3/5; 1178/1980] START leaf\_size=31, n\_neighbors=89...  
 [CV 3/5; 1172/1980] END leaf\_size=31, n\_neighbors=83;; score=0.564 total time=0.0s  
 [CV 4/5; 1172/1980] START leaf\_size=31, n\_neighbors=83...  
 [CV 3/5; 1169/1980] END leaf\_size=31, n\_neighbors=80;; score=0.564 total time=0.0s  
 [CV 4/5; 1169/1980] START leaf\_size=31, n\_neighbors=80...  
 [CV 3/5; 1166/1980] END leaf\_size=31, n\_neighbors=77;; score=0.562 total time=0.0s  
 [CV 4/5; 1182/1980] START leaf\_size=31, n\_neighbors=93...  
 [CV 1/5; 1174/1980] END leaf\_size=31, n\_neighbors=85;; score=0.650 total time=0.0s  
 [CV 2/5; 1174/1980] START leaf\_size=31, n\_neighbors=85...  
 [CV 5/5; 1176/1980] END leaf\_size=31, n\_neighbors=87;; score=0.619 total time=0.0s  
 [CV 1/5; 1177/1980] START leaf\_size=31, n\_neighbors=88...  
 [CV 1/5; 1181/1980] END leaf\_size=31, n\_neighbors=92;; score=0.646 total time=0.0s  
 [CV 2/5; 1181/1980] START leaf\_size=31, n\_neighbors=92...  
 [CV 3/5; 1178/1980] END leaf\_size=31, n\_neighbors=89;; score=0.564 total time=0.0s  
 [CV 4/5; 1178/1980] START leaf\_size=31, n\_neighbors=89...  
 [CV 2/5; 1175/1980] END leaf\_size=31, n\_neighbors=86;; score=0.598 total time=0.0s  
 [CV 3/5; 1175/1980] START leaf\_size=31, n\_neighbors=86...  
 [CV 4/5; 1169/1980] END leaf\_size=31, n\_neighbors=80;; score=0.584 total time=0.0s  
 [CV 4/5; 1172/1980] END leaf\_size=31, n\_neighbors=83;; score=0.584 total time=0.0s  
 [CV 2/5; 1184/1980] START leaf\_size=31, n\_neighbors=95...  
  
 [CV 5/5; 1172/1980] START leaf\_size=31, n\_neighbors=83...  
 [CV 4/5; 1179/1980] END leaf\_size=31, n\_neighbors=90;; score=0.580 total time=0.0s  
 [CV 5/5; 1179/1980] START leaf\_size=31, n\_neighbors=90...  
 [CV 5/5; 1170/1980] END leaf\_size=31, n\_neighbors=81;; score=0.626 total time=0.0s  
 [CV 1/5; 1171/1980] START leaf\_size=31, n\_neighbors=82...  
 [CV 2/5; 1174/1980] END leaf\_size=31, n\_neighbors=85;; score=0.600 total time=

0.0s  
 [CV 3/5; 1174/1980] START leaf\_size=31, n\_neighbors=85...  
 [CV 4/5; 1182/1980] END leaf\_size=31, n\_neighbors=93;; score=0.587 total time=  
 0.0s  
 [CV 5/5; 1182/1980] START leaf\_size=31, n\_neighbors=93...  
 [CV 1/5; 1177/1980] END leaf\_size=31, n\_neighbors=88;; score=0.652 total time=  
 0.0s  
 [CV 2/5; 1177/1980] START leaf\_size=31, n\_neighbors=88...  
 [CV 4/5; 1178/1980] END leaf\_size=31, n\_neighbors=89;; score=0.591 total time=  
 0.0s  
 [CV 5/5; 1178/1980] START leaf\_size=31, n\_neighbors=89...  
 [CV 2/5; 1181/1980] END leaf\_size=31, n\_neighbors=92;; score=0.598 total time=  
 0.0s  
 [CV 3/5; 1181/1980] START leaf\_size=31, n\_neighbors=92...  
 [CV 3/5; 1175/1980] END leaf\_size=31, n\_neighbors=86;; score=0.559 total time=  
 0.0s  
 [CV 4/5; 1175/1980] START leaf\_size=31, n\_neighbors=86...  
 [CV 2/5; 1184/1980] END leaf\_size=31, n\_neighbors=95;; score=0.603 total time=  
 0.0s  
 [CV 3/5; 1184/1980] START leaf\_size=31, n\_neighbors=95...  
 [CV 5/5; 1172/1980] END leaf\_size=31, n\_neighbors=83;; score=0.619 total time=  
 0.0s  
 [CV 5/5; 1185/1980] START leaf\_size=31, n\_neighbors=96...  
 [CV 5/5; 1182/1980] END leaf\_size=31, n\_neighbors=93;; score=0.617 total time=  
 0.0s  
 [CV 1/5; 1183/1980] START leaf\_size=31, n\_neighbors=94...  
 [CV 5/5; 1179/1980] END leaf\_size=31, n\_neighbors=90;; score=0.617 total time=  
 0.0s  
 [CV 1/5; 1180/1980] START leaf\_size=31, n\_neighbors=91...  
 [CV 2/5; 1177/1980] END leaf\_size=31, n\_neighbors=88;; score=0.600 total time=  
 0.0s  
 [CV 3/5; 1177/1980] START leaf\_size=31, n\_neighbors=88...  
 [CV 5/5; 1178/1980] END leaf\_size=31, n\_neighbors=89;; score=0.621 total time=  
 0.0s  
 [CV 1/5; 1179/1980] START leaf\_size=31, n\_neighbors=90...  
 [CV 3/5; 1174/1980] END leaf\_size=31, n\_neighbors=85;; score=0.557 total time=  
 0.0s  
 [CV 3/5; 1187/1980] START leaf\_size=31, n\_neighbors=98...  
 [CV 3/5; 1181/1980] END leaf\_size=31, n\_neighbors=92;; score=0.564 total time=  
 0.0s  
 [CV 4/5; 1181/1980] START leaf\_size=31, n\_neighbors=92...  
 [CV 4/5; 1175/1980] END leaf\_size=31, n\_neighbors=86;; score=0.580 total time=  
 0.0s  
 [CV 5/5; 1175/1980] START leaf\_size=31, n\_neighbors=86...  
 [CV 1/5; 1171/1980] END leaf\_size=31, n\_neighbors=82;; score=0.659 total time=  
 0.1s  
 [CV 2/5; 1171/1980] START leaf\_size=31, n\_neighbors=82...  
 [CV 3/5; 1184/1980] END leaf\_size=31, n\_neighbors=95;; score=0.566 total time=

0.0s  
 [CV 4/5; 1184/1980] START leaf\_size=31, n\_neighbors=95...  
 [CV 5/5; 1185/1980] END leaf\_size=31, n\_neighbors=96;; score=0.604 total time=  
 0.0s  
 [CV 1/5; 1186/1980] START leaf\_size=31, n\_neighbors=97...  
 [CV 1/5; 1183/1980] END leaf\_size=31, n\_neighbors=94;; score=0.644 total time=  
 0.0s  
 [CV 2/5; 1183/1980] START leaf\_size=31, n\_neighbors=94...  
 [CV 3/5; 1177/1980] END leaf\_size=31, n\_neighbors=88;; score=0.562 total time=  
 0.0s  
 [CV 4/5; 1177/1980] START leaf\_size=31, n\_neighbors=88...  
 [CV 1/5; 1179/1980] END leaf\_size=31, n\_neighbors=90;; score=0.650 total time=  
 0.0s  
 [CV 2/5; 1179/1980] START leaf\_size=31, n\_neighbors=90...  
 [CV 4/5; 1181/1980] END leaf\_size=31, n\_neighbors=92;; score=0.582 total time=  
 0.0s  
 [CV 5/5; 1181/1980] START leaf\_size=31, n\_neighbors=92...  
 [CV 3/5; 1187/1980] END leaf\_size=31, n\_neighbors=98;; score=0.562 total time=  
 0.0s  
 [CV 4/5; 1187/1980] START leaf\_size=31, n\_neighbors=98...  
 [CV 5/5; 1175/1980] END leaf\_size=31, n\_neighbors=86;; score=0.623 total time=  
 0.0s  
 [CV 1/5; 1176/1980] START leaf\_size=31, n\_neighbors=87...  
 [CV 4/5; 1184/1980] END leaf\_size=31, n\_neighbors=95;; score=0.584 total time=  
 0.0s  
 [CV 5/5; 1184/1980] START leaf\_size=31, n\_neighbors=95...  
 [CV 1/5; 1186/1980] END leaf\_size=31, n\_neighbors=97;; score=0.641 total time=  
 0.0s  
 [CV 2/5; 1186/1980] START leaf\_size=31, n\_neighbors=97...  
 [CV 1/5; 1180/1980] END leaf\_size=31, n\_neighbors=91;; score=0.648 total time=  
 0.1s  
 [CV 2/5; 1180/1980] START leaf\_size=31, n\_neighbors=91...  
 [CV 2/5; 1171/1980] END leaf\_size=31, n\_neighbors=82;; score=0.600 total time=  
 0.0s  
 [CV 4/5; 1177/1980] END leaf\_size=31, n\_neighbors=88;; score=0.578 total time=  
 0.0s  
 [CV 1/5; 1189/1980] START leaf\_size=32,  
 n\_neighbors=1...[CV 2/5; 1179/1980] END leaf\_size=31,  
 n\_neighbors=90;; score=0.600 total time= 0.0s  
 [CV 2/5; 1183/1980] END leaf\_size=31, n\_neighbors=94;; score=0.600 total time=  
 0.0s  
 [CV 3/5; 1183/1980] START leaf\_size=31, n\_neighbors=94...  
 [CV 4/5; 1190/1980] START leaf\_size=32, n\_neighbors=2...  
  
 [CV 5/5; 1181/1980] END leaf\_size=31, n\_neighbors=92;; score=0.621 total time=  
 0.0s  
 [CV 1/5; 1182/1980] START leaf\_size=31, n\_neighbors=93...  
 [CV 2/5; 1192/1980] START leaf\_size=32, n\_neighbors=4...



[CV 1/5; 1176/1980] END leaf\_size=31, n\_neighbors=87;; score=0.650 total time=0.0s  
 [CV 5/5; 1193/1980] START leaf\_size=32, n\_neighbors=5...  
 [CV 4/5; 1187/1980] END leaf\_size=31, n\_neighbors=98;; score=0.584 total time=0.0s  
 [CV 5/5; 1187/1980] START leaf\_size=31, n\_neighbors=98...  
 [CV 2/5; 1186/1980] END leaf\_size=31, n\_neighbors=97;; score=0.594 total time=0.0s  
 [CV 3/5; 1186/1980] START leaf\_size=31, n\_neighbors=97...  
 [CV 5/5; 1184/1980] END leaf\_size=31, n\_neighbors=95;; score=0.608 total time=0.0s  
 [CV 1/5; 1185/1980] START leaf\_size=31, n\_neighbors=96...  
 [CV 2/5; 1192/1980] END leaf\_size=32, n\_neighbors=4;; score=0.581 total time=0.0s  
 [CV 3/5; 1192/1980] START leaf\_size=32, n\_neighbors=4...  
 [CV 3/5; 1183/1980] END leaf\_size=31, n\_neighbors=94;; score=0.562 total time=0.0s  
 [CV 4/5; 1183/1980] START leaf\_size=31, n\_neighbors=94...  
 [CV 1/5; 1182/1980] END leaf\_size=31, n\_neighbors=93;; score=0.646 total time=0.0s  
 [CV 2/5; 1182/1980] START leaf\_size=31, n\_neighbors=93...  
 [CV 5/5; 1193/1980] END leaf\_size=32, n\_neighbors=5;; score=0.591 total time=0.0s  
 [CV 1/5; 1189/1980] END leaf\_size=32, n\_neighbors=1;; score=0.516 total time=0.0s  
 [CV 1/5; 1194/1980] START leaf\_size=32, n\_neighbors=6...  
 [CV 2/5; 1189/1980] START leaf\_size=32, n\_neighbors=1...  
 [CV 2/5; 1180/1980] END leaf\_size=31, n\_neighbors=91;; score=0.605 total time=0.1s  
 [CV 3/5; 1180/1980] START leaf\_size=31, n\_neighbors=91...  
 [CV 3/5; 1186/1980] END leaf\_size=31, n\_neighbors=97;; score=0.564 total time=0.0s  
 [CV 4/5; 1186/1980] START leaf\_size=31, n\_neighbors=97...  
 [CV 4/5; 1190/1980] END leaf\_size=32, n\_neighbors=2;; score=0.571 total time=0.0s  
 [CV 5/5; 1190/1980] START leaf\_size=32, n\_neighbors=2...  
 [CV 3/5; 1192/1980] END leaf\_size=32, n\_neighbors=4;; score=0.544 total time=0.0s  
 [CV 4/5; 1192/1980] START leaf\_size=32, n\_neighbors=4...  
 [CV 5/5; 1187/1980] END leaf\_size=31, n\_neighbors=98;; score=0.606 total time=0.0s  
 [CV 1/5; 1188/1980] START leaf\_size=31, n\_neighbors=99...  
 [CV 1/5; 1185/1980] END leaf\_size=31, n\_neighbors=96;; score=0.637 total time=0.0s  
 [CV 2/5; 1185/1980] START leaf\_size=31, n\_neighbors=96...  
 [CV 1/5; 1194/1980] END leaf\_size=32, n\_neighbors=6;; score=0.570 total time=0.0s  
 [CV 2/5; 1194/1980] START leaf\_size=32, n\_neighbors=6...

[CV 4/5; 1183/1980] END leaf\_size=31, n\_neighbors=94;; score=0.582 total time=0.0s  
 [CV 5/5; 1183/1980] START leaf\_size=31, n\_neighbors=94...  
 [CV 2/5; 1182/1980] END leaf\_size=31, n\_neighbors=93;; score=0.603 total time=0.0s  
 [CV 3/5; 1182/1980] START leaf\_size=31, n\_neighbors=93...  
 [CV 4/5; 1192/1980] END leaf\_size=32, n\_neighbors=4;; score=0.580 total time=0.0s  
 [CV 5/5; 1192/1980] START leaf\_size=32,  
 n\_neighbors=4...[CV 4/5; 1186/1980] END leaf\_size=31,  
 n\_neighbors=97;; score=0.580 total time= 0.0s  
 [CV 5/5; 1186/1980] START leaf\_size=31, n\_neighbors=97...  
 [CV 5/5; 1190/1980] END leaf\_size=32, n\_neighbors=2;; score=0.574 total time=0.0s  
 [CV 1/5; 1191/1980] START leaf\_size=32, n\_neighbors=3...  
 [CV 3/5; 1180/1980] END leaf\_size=31, n\_neighbors=91;; score=0.564 total time=0.0s  
 [CV 4/5; 1180/1980] START leaf\_size=31, n\_neighbors=91...  
  
 [CV 2/5; 1194/1980] END leaf\_size=32, n\_neighbors=6;; score=0.546 total time=0.0s  
 [CV 3/5; 1194/1980] START leaf\_size=32, n\_neighbors=6...  
 [CV 1/5; 1188/1980] END leaf\_size=31, n\_neighbors=99;; score=0.641 total time=0.0s  
 [CV 2/5; 1188/1980] START leaf\_size=31, n\_neighbors=99...  
 [CV 2/5; 1185/1980] END leaf\_size=31, n\_neighbors=96;; score=0.598 total time=0.0s  
 [CV 3/5; 1185/1980] START leaf\_size=31, n\_neighbors=96...  
 [CV 2/5; 1189/1980] END leaf\_size=32, n\_neighbors=1;; score=0.568 total time=0.1s  
 [CV 5/5; 1183/1980] END leaf\_size=31, n\_neighbors=94;; score=0.608 total time=0.0s  
 [CV 1/5; 1184/1980] START leaf\_size=31, n\_neighbors=95...  
 [CV 3/5; 1189/1980] START leaf\_size=32,  
 n\_neighbors=1...[CV 3/5; 1182/1980] END leaf\_size=31,  
 n\_neighbors=93;; score=0.564 total time= 0.0s  
 [CV 3/5; 1195/1980] START leaf\_size=32, n\_neighbors=7...  
 [CV 3/5; 1194/1980] END leaf\_size=32, n\_neighbors=6;; score=0.555 total time=0.0s  
 [CV 4/5; 1194/1980] START leaf\_size=32, n\_neighbors=6...  
 [CV 5/5; 1192/1980] END leaf\_size=32, n\_neighbors=4;; score=0.593 total time=0.0s  
 [CV 1/5; 1193/1980] START leaf\_size=32, n\_neighbors=5...  
 [CV 1/5; 1191/1980] END leaf\_size=32, n\_neighbors=3;; score=0.557 total time=0.0s  
 [CV 2/5; 1191/1980] START leaf\_size=32, n\_neighbors=3...  
  
 [CV 5/5; 1186/1980] END leaf\_size=31, n\_neighbors=97;; score=0.602 total time=

0.0s  
 [CV 1/5; 1187/1980] START leaf\_size=31, n\_neighbors=98...  
 [CV 4/5; 1180/1980] END leaf\_size=31, n\_neighbors=91;; score=0.591 total time=  
 0.0s  
 [CV 5/5; 1180/1980] START leaf\_size=31, n\_neighbors=91...  
 [CV 3/5; 1195/1980] END leaf\_size=32, n\_neighbors=7;; score=0.551 total time=  
 0.0s  
 [CV 4/5; 1195/1980] START leaf\_size=32, n\_neighbors=7...  
 [CV 4/5; 1194/1980] END leaf\_size=32, n\_neighbors=6;; score=0.578 total time=  
 0.0s  
 [CV 5/5; 1194/1980] START leaf\_size=32, n\_neighbors=6...  
 [CV 3/5; 1185/1980] END leaf\_size=31, n\_neighbors=96;; score=0.564 total time=  
 0.0s  
 [CV 4/5; 1185/1980] START leaf\_size=31, n\_neighbors=96...  
 [CV 2/5; 1188/1980] END leaf\_size=31, n\_neighbors=99;; score=0.598 total time=  
 0.0s  
 [CV 3/5; 1188/1980] START leaf\_size=31, n\_neighbors=99...  
 [CV 1/5; 1193/1980] END leaf\_size=32, n\_neighbors=5;; score=0.546 total time=  
 0.0s  
 [CV 2/5; 1193/1980] START leaf\_size=32, n\_neighbors=5...  
 [CV 3/5; 1189/1980] END leaf\_size=32, n\_neighbors=1;; score=0.490 total time=  
 0.0s  
 [CV 4/5; 1189/1980] START leaf\_size=32, n\_neighbors=1...  
 [CV 1/5; 1184/1980] END leaf\_size=31, n\_neighbors=95;; score=0.644 total time=  
 0.0s  
 [CV 4/5; 1195/1980] END leaf\_size=32, n\_neighbors=7;; score=0.584 total time=  
 0.0s  
 [CV 5/5; 1195/1980] START leaf\_size=32, n\_neighbors=7...  
 [CV 2/5; 1191/1980] END leaf\_size=32, n\_neighbors=3;; score=0.579 total time=  
 0.0s  
 [CV 3/5; 1191/1980] START leaf\_size=32, n\_neighbors=3...  
 [CV 1/5; 1197/1980] START leaf\_size=32, n\_neighbors=9...  
 [CV 1/5; 1187/1980] END leaf\_size=31, n\_neighbors=98;; score=0.635 total time=  
 0.0s  
 [CV 2/5; 1187/1980] START leaf\_size=31, n\_neighbors=98...  
 [CV 4/5; 1189/1980] END leaf\_size=32, n\_neighbors=1;; score=0.539 total time=  
 0.0s  
 [CV 5/5; 1189/1980] START leaf\_size=32, n\_neighbors=1...  
 [CV 2/5; 1193/1980] END leaf\_size=32, n\_neighbors=5;; score=0.562 total time=  
 0.0s  
 [CV 3/5; 1193/1980] START leaf\_size=32, n\_neighbors=5...  
 [CV 5/5; 1180/1980] END leaf\_size=31, n\_neighbors=91;; score=0.623 total time=  
 0.0s  
 [CV 4/5; 1198/1980] START leaf\_size=32, n\_neighbors=10...  
 [CV 5/5; 1194/1980] END leaf\_size=32, n\_neighbors=6;; score=0.582 total time=  
 0.0s  
 [CV 1/5; 1195/1980] START leaf\_size=32, n\_neighbors=7...  
 [CV 4/5; 1185/1980] END leaf\_size=31, n\_neighbors=96;; score=0.582 total time=

0.0s  
 [CV 3/5; 1188/1980] END leaf\_size=31, n\_neighbors=99;; score=0.566 total time=0.0s  
 [CV 4/5; 1188/1980] START leaf\_size=31, n\_neighbors=99...  
 [CV 5/5; 1195/1980] END leaf\_size=32, n\_neighbors=7;; score=0.613 total time=0.0s  
 [CV 2/5; 1200/1980] START leaf\_size=32, n\_neighbors=12...[CV 1/5; 1196/1980] START leaf\_size=32, n\_neighbors=8...  
  
 [CV 1/5; 1197/1980] END leaf\_size=32, n\_neighbors=9;; score=0.592 total time=0.0s  
 [CV 2/5; 1197/1980] START leaf\_size=32, n\_neighbors=9...  
 [CV 5/5; 1189/1980] END leaf\_size=32, n\_neighbors=1;; score=0.567 total time=0.0s  
 [CV 1/5; 1190/1980] START leaf\_size=32, n\_neighbors=2...  
 [CV 3/5; 1193/1980] END leaf\_size=32, n\_neighbors=5;; score=0.536 total time=0.0s  
 [CV 4/5; 1193/1980] START leaf\_size=32, n\_neighbors=5...  
 [CV 3/5; 1191/1980] END leaf\_size=32, n\_neighbors=3;; score=0.484 total time=0.0s  
 [CV 4/5; 1191/1980] START leaf\_size=32, n\_neighbors=3...  
 [CV 4/5; 1198/1980] END leaf\_size=32, n\_neighbors=10;; score=0.597 total time=0.0s  
 [CV 5/5; 1198/1980] START leaf\_size=32, n\_neighbors=10...  
 [CV 2/5; 1200/1980] END leaf\_size=32, n\_neighbors=12;; score=0.581 total time=0.0s  
 [CV 3/5; 1200/1980] START leaf\_size=32, n\_neighbors=12...  
 [CV 2/5; 1187/1980] END leaf\_size=31, n\_neighbors=98;; score=0.596 total time=0.0s  
 [CV 5/5; 1201/1980] START leaf\_size=32, n\_neighbors=13...  
 [CV 1/5; 1196/1980] END leaf\_size=32, n\_neighbors=8;; score=0.568 total time=0.0s  
 [CV 2/5; 1196/1980] START leaf\_size=32, n\_neighbors=8...  
 [CV 2/5; 1197/1980] END leaf\_size=32, n\_neighbors=9;; score=0.570 total time=0.0s  
 [CV 3/5; 1197/1980] START leaf\_size=32, n\_neighbors=9...  
 [CV 1/5; 1190/1980] END leaf\_size=32, n\_neighbors=2;; score=0.566 total time=0.0s  
 [CV 2/5; 1190/1980] START leaf\_size=32, n\_neighbors=2...  
 [CV 4/5; 1188/1980] END leaf\_size=31, n\_neighbors=99;; score=0.589 total time=0.0s  
 [CV 5/5; 1188/1980] START leaf\_size=31, n\_neighbors=99...  
 [CV 4/5; 1193/1980] END leaf\_size=32, n\_neighbors=5;; score=0.589 total time=0.0s  
 [CV 1/5; 1195/1980] END leaf\_size=32, n\_neighbors=7;; score=0.568 total time=0.0s[CV 3/5; 1203/1980] START leaf\_size=32, n\_neighbors=15...

[CV 2/5; 1195/1980] START leaf\_size=32, n\_neighbors=7...  
 [CV 3/5; 1200/1980] END leaf\_size=32, n\_neighbors=12;; score=0.546 total time=0.0s  
 [CV 4/5; 1200/1980] START leaf\_size=32, n\_neighbors=12...  
 [CV 5/5; 1198/1980] END leaf\_size=32, n\_neighbors=10;; score=0.615 total time=0.0s  
 [CV 1/5; 1199/1980] START leaf\_size=32, n\_neighbors=11...  
 [CV 2/5; 1196/1980] END leaf\_size=32, n\_neighbors=8;; score=0.551 total time=0.0s  
 [CV 3/5; 1196/1980] START leaf\_size=32, n\_neighbors=8...  
 [CV 5/5; 1201/1980] END leaf\_size=32, n\_neighbors=13;; score=0.591 total time=0.0s  
 [CV 1/5; 1202/1980] START leaf\_size=32, n\_neighbors=14...  
 [CV 2/5; 1190/1980] END leaf\_size=32, n\_neighbors=2;; score=0.579 total time=0.0s  
 [CV 3/5; 1190/1980] START leaf\_size=32, n\_neighbors=2...  
 [CV 3/5; 1197/1980] END leaf\_size=32, n\_neighbors=9;; score=0.559 total time=0.0s  
 [CV 4/5; 1197/1980] START leaf\_size=32, n\_neighbors=9...  
 [CV 4/5; 1191/1980] END leaf\_size=32, n\_neighbors=3;; score=0.584 total time=0.0s  
 [CV 5/5; 1191/1980] START leaf\_size=32, n\_neighbors=3...  
 [CV 3/5; 1203/1980] END leaf\_size=32, n\_neighbors=15;; score=0.557 total time=0.0s  
 [CV 4/5; 1203/1980] START leaf\_size=32, n\_neighbors=15...  
 [CV 4/5; 1200/1980] END leaf\_size=32, n\_neighbors=12;; score=0.576 total time=0.0s  
 [CV 5/5; 1188/1980] END leaf\_size=31, n\_neighbors=99;; score=0.610 total time=0.0s  
 [CV 5/5; 1200/1980] START leaf\_size=32, n\_neighbors=12...  
 [CV 2/5; 1195/1980] END leaf\_size=32, n\_neighbors=7;; score=0.559 total time=0.0s  
 [CV 1/5; 1205/1980] START leaf\_size=32, n\_neighbors=17...  
 [CV 3/5; 1190/1980] END leaf\_size=32, n\_neighbors=2;; score=0.512 total time=0.0s  
 [CV 4/5; 1197/1980] END leaf\_size=32, n\_neighbors=9;; score=0.589 total time=0.0s  
 [CV 5/5; 1197/1980] START leaf\_size=32, n\_neighbors=9...  
 [CV 4/5; 1206/1980] START leaf\_size=32, n\_neighbors=18...  
 [CV 3/5; 1196/1980] END leaf\_size=32, n\_neighbors=8;; score=0.551 total time=0.0s  
 [CV 4/5; 1196/1980] START leaf\_size=32, n\_neighbors=8...  
 [CV 1/5; 1202/1980] END leaf\_size=32, n\_neighbors=14;; score=0.644 total time=0.0s  
 [CV 2/5; 1202/1980] START leaf\_size=32, n\_neighbors=14...  
 [CV 2/5; 1208/1980] START leaf\_size=32, n\_neighbors=20...  
 [CV 1/5; 1199/1980] END leaf\_size=32, n\_neighbors=11;; score=0.624 total time=

0.0s  
[CV 2/5; 1199/1980] START leaf\_size=32, n\_neighbors=11...  
[CV 4/5; 1203/1980] END leaf\_size=32, n\_neighbors=15;; score=0.584 total time=  
0.0s  
[CV 5/5; 1203/1980] START leaf\_size=32, n\_neighbors=15...  
[CV 5/5; 1200/1980] END leaf\_size=32, n\_neighbors=12;; score=0.613 total time=  
0.0s  
[CV 1/5; 1201/1980] START leaf\_size=32, n\_neighbors=13...  
[CV 1/5; 1205/1980] END leaf\_size=32, n\_neighbors=17;; score=0.631 total time=  
0.0s  
[CV 2/5; 1205/1980] START leaf\_size=32, n\_neighbors=17...  
[CV 5/5; 1191/1980] END leaf\_size=32, n\_neighbors=3;; score=0.593 total time=  
0.0s  
[CV 1/5; 1192/1980] START leaf\_size=32, n\_neighbors=4...  
[CV 4/5; 1206/1980] END leaf\_size=32, n\_neighbors=18;; score=0.600 total time=  
0.0s  
[CV 5/5; 1197/1980] END leaf\_size=32, n\_neighbors=9;; score=0.613 total time=  
0.0s  
[CV 5/5; 1206/1980] START leaf\_size=32, n\_neighbors=18...  
[CV 1/5; 1198/1980] START leaf\_size=32, n\_neighbors=10...  
[CV 4/5; 1196/1980] END leaf\_size=32, n\_neighbors=8;; score=0.617 total time=  
0.0s  
[CV 5/5; 1196/1980] START leaf\_size=32, n\_neighbors=8...  
[CV 2/5; 1208/1980] END leaf\_size=32, n\_neighbors=20;; score=0.583 total time=  
0.0s  
[CV 3/5; 1208/1980] START leaf\_size=32, n\_neighbors=20...  
[CV 2/5; 1202/1980] END leaf\_size=32, n\_neighbors=14;; score=0.572 total time=  
0.0s  
[CV 3/5; 1202/1980] START leaf\_size=32, n\_neighbors=14...  
[CV 2/5; 1199/1980] END leaf\_size=32, n\_neighbors=11;; score=0.579 total time=  
0.0s  
[CV 3/5; 1199/1980] START leaf\_size=32, n\_neighbors=11...  
[CV 5/5; 1203/1980] END leaf\_size=32, n\_neighbors=15;; score=0.615 total time=  
0.0s  
[CV 1/5; 1204/1980] START leaf\_size=32, n\_neighbors=16...  
[CV 1/5; 1201/1980] END leaf\_size=32, n\_neighbors=13;; score=0.633 total time=  
0.0s  
[CV 2/5; 1201/1980] START leaf\_size=32, n\_neighbors=13...  
[CV 2/5; 1205/1980] END leaf\_size=32, n\_neighbors=17;; score=0.568 total time=  
0.0s  
[CV 3/5; 1205/1980] START leaf\_size=32, n\_neighbors=17...  
[CV 5/5; 1206/1980] END leaf\_size=32, n\_neighbors=18;; score=0.617 total time=  
0.0s  
[CV 1/5; 1207/1980] START leaf\_size=32, n\_neighbors=19...  
[CV 5/5; 1196/1980] END leaf\_size=32, n\_neighbors=8;; score=0.608 total time=  
0.0s[CV 1/5; 1192/1980] END leaf\_size=32, n\_neighbors=4;; score=0.562 total  
time= 0.0s

[CV 1/5; 1198/1980] END leaf\_size=32, n\_neighbors=10;; score=0.611 total time=0.0s  
 [CV 2/5; 1198/1980] START leaf\_size=32, n\_neighbors=10...  
 [CV 5/5; 1209/1980] START leaf\_size=32, n\_neighbors=21...  
 [CV 3/5; 1211/1980] START leaf\_size=32, n\_neighbors=23...  
 [CV 3/5; 1202/1980] END leaf\_size=32, n\_neighbors=14;; score=0.544 total time=0.0s  
 [CV 4/5; 1202/1980] START leaf\_size=32, n\_neighbors=14...  
 [CV 3/5; 1199/1980] END leaf\_size=32, n\_neighbors=11;; score=0.551 total time=0.0s  
 [CV 4/5; 1199/1980] START leaf\_size=32, n\_neighbors=11...  
 [CV 1/5; 1204/1980] END leaf\_size=32, n\_neighbors=16;; score=0.637 total time=0.0s  
 [CV 2/5; 1204/1980] START leaf\_size=32, n\_neighbors=16...  
 [CV 2/5; 1201/1980] END leaf\_size=32, n\_neighbors=13;; score=0.570 total time=0.0s  
 [CV 3/5; 1201/1980] START leaf\_size=32, n\_neighbors=13...  
 [CV 3/5; 1205/1980] END leaf\_size=32, n\_neighbors=17;; score=0.564 total time=0.0s  
 [CV 4/5; 1205/1980] START leaf\_size=32, n\_neighbors=17...  
 [CV 1/5; 1207/1980] END leaf\_size=32, n\_neighbors=19;; score=0.637 total time=0.0s  
 [CV 2/5; 1207/1980] START leaf\_size=32, n\_neighbors=19...  
 [CV 2/5; 1198/1980] END leaf\_size=32, n\_neighbors=10;; score=0.568 total time=0.0s  
 [CV 3/5; 1198/1980] START leaf\_size=32, n\_neighbors=10...  
 [CV 4/5; 1202/1980] END leaf\_size=32, n\_neighbors=14;; score=0.584 total time=0.0s  
 [CV 5/5; 1202/1980] START leaf\_size=32, n\_neighbors=14...  
 [CV 4/5; 1199/1980] END leaf\_size=32, n\_neighbors=11;; score=0.589 total time=0.0s  
 [CV 5/5; 1199/1980] START leaf\_size=32, n\_neighbors=11...  
 [CV 3/5; 1211/1980] END leaf\_size=32, n\_neighbors=23;; score=0.557 total time=0.0s  
 [CV 4/5; 1211/1980] START leaf\_size=32, n\_neighbors=23...  
 [CV 5/5; 1209/1980] END leaf\_size=32, n\_neighbors=21;; score=0.621 total time=0.0s  
 [CV 1/5; 1210/1980] START leaf\_size=32, n\_neighbors=22...  
 [CV 2/5; 1204/1980] END leaf\_size=32, n\_neighbors=16;; score=0.575 total time=0.0s  
 [CV 3/5; 1204/1980] START leaf\_size=32, n\_neighbors=16...  
 [CV 3/5; 1201/1980] END leaf\_size=32, n\_neighbors=13;; score=0.553 total time=0.0s  
 [CV 4/5; 1201/1980] START leaf\_size=32, n\_neighbors=13...  
 [CV 3/5; 1198/1980] END leaf\_size=32, n\_neighbors=10;; score=0.549 total time=0.0s  
 [CV 2/5; 1207/1980] END leaf\_size=32, n\_neighbors=19;; score=0.583 total time=0.0s

[CV 3/5; 1207/1980] START leaf\_size=32, n\_neighbors=19...  
 [CV 4/5; 1205/1980] END leaf\_size=32, n\_neighbors=17;; score=0.580 total time=0.0s  
 [CV 5/5; 1205/1980] START leaf\_size=32, n\_neighbors=17...  
 [CV 3/5; 1208/1980] END leaf\_size=32, n\_neighbors=20;; score=0.553 total time=0.1s  
 [CV 4/5; 1208/1980] START leaf\_size=32, n\_neighbors=20...  
 [CV 5/5; 1199/1980] END leaf\_size=32, n\_neighbors=11;; score=0.606 total time=0.0s  
 [CV 1/5; 1200/1980] START leaf\_size=32, n\_neighbors=12...  
 [CV 5/5; 1202/1980] END leaf\_size=32, n\_neighbors=14;; score=0.606 total time=0.0s  
 [CV 1/5; 1203/1980] START leaf\_size=32, n\_neighbors=15...  
 [CV 4/5; 1201/1980] END leaf\_size=32, n\_neighbors=13;; score=0.574 total time=0.0s  
 [CV 1/5; 1213/1980] START leaf\_size=32, n\_neighbors=25...  
 [CV 3/5; 1204/1980] END leaf\_size=32, n\_neighbors=16;; score=0.557 total time=0.0s  
 [CV 4/5; 1204/1980] START leaf\_size=32, n\_neighbors=16...  
 [CV 4/5; 1211/1980] END leaf\_size=32, n\_neighbors=23;; score=0.600 total time=0.0s  
 [CV 5/5; 1211/1980] START leaf\_size=32, n\_neighbors=23...  
 [CV 4/5; 1214/1980] START leaf\_size=32, n\_neighbors=26...  
 [CV 1/5; 1210/1980] END leaf\_size=32, n\_neighbors=22;; score=0.622 total time=0.0s  
 [CV 2/5; 1210/1980] START leaf\_size=32, n\_neighbors=22...  
 [CV 3/5; 1207/1980] END leaf\_size=32, n\_neighbors=19;; score=0.551 total time=0.0s  
 [CV 4/5; 1207/1980] START leaf\_size=32, n\_neighbors=19...  
 [CV 4/5; 1208/1980] END leaf\_size=32, n\_neighbors=20;; score=0.600 total time=0.0s  
 [CV 5/5; 1208/1980] START leaf\_size=32, n\_neighbors=20...  
 [CV 1/5; 1200/1980] END leaf\_size=32, n\_neighbors=12;; score=0.648 total time=0.0s  
 [CV 1/5; 1203/1980] END leaf\_size=32, n\_neighbors=15;; score=0.637 total time=0.0s  
 [CV 2/5; 1203/1980] START leaf\_size=32, n\_neighbors=15...  
 [CV 1/5; 1213/1980] END leaf\_size=32, n\_neighbors=25;; score=0.646 total time=0.0s  
 [CV 2/5; 1216/1980] START leaf\_size=32, n\_neighbors=28...  
  
 [CV 2/5; 1213/1980] START leaf\_size=32, n\_neighbors=25...  
 [CV 4/5; 1204/1980] END leaf\_size=32, n\_neighbors=16;; score=0.584 total time=0.0s  
 [CV 5/5; 1205/1980] END leaf\_size=32, n\_neighbors=17;; score=0.610 total time=0.0s  
 [CV 5/5; 1204/1980] START leaf\_size=32, n\_neighbors=16...



[CV 5/5; 1211/1980] END leaf\_size=32, n\_neighbors=23;; score=0.643 total time=0.0s  
 [CV 4/5; 1214/1980] END leaf\_size=32, n\_neighbors=26;; score=0.593 total time=0.0s  
 [CV 1/5; 1212/1980] START leaf\_size=32,  
 n\_neighbors=24...[CV 5/5; 1214/1980] START leaf\_size=32,  
 n\_neighbors=26...  
  
 [CV 1/5; 1206/1980] START leaf\_size=32, n\_neighbors=18...  
 [CV 2/5; 1210/1980] END leaf\_size=32, n\_neighbors=22;; score=0.587 total time=0.0s  
 [CV 3/5; 1210/1980] START leaf\_size=32, n\_neighbors=22...  
 [CV 4/5; 1207/1980] END leaf\_size=32, n\_neighbors=19;; score=0.589 total time=0.0s  
 [CV 5/5; 1207/1980] START leaf\_size=32, n\_neighbors=19...  
 [CV 5/5; 1208/1980] END leaf\_size=32, n\_neighbors=20;; score=0.632 total time=0.0s  
 [CV 1/5; 1209/1980] START leaf\_size=32, n\_neighbors=21...  
 [CV 2/5; 1203/1980] END leaf\_size=32, n\_neighbors=15;; score=0.570 total time=0.0s  
 [CV 2/5; 1213/1980] END leaf\_size=32, n\_neighbors=25;; score=0.598 total time=0.0s  
 [CV 3/5; 1213/1980] START leaf\_size=32, n\_neighbors=25...  
 [CV 5/5; 1204/1980] END leaf\_size=32, n\_neighbors=16;; score=0.621 total time=0.0s  
 [CV 5/5; 1217/1980] START leaf\_size=32, n\_neighbors=29...  
 [CV 5/5; 1214/1980] END leaf\_size=32, n\_neighbors=26;; score=0.628 total time=0.0s  
 [CV 1/5; 1215/1980] START leaf\_size=32, n\_neighbors=27...  
 [CV 2/5; 1216/1980] END leaf\_size=32, n\_neighbors=28;; score=0.598 total time=0.0s  
 [CV 3/5; 1216/1980] START leaf\_size=32, n\_neighbors=28...  
 [CV 3/5; 1219/1980] START leaf\_size=32, n\_neighbors=31...  
 [CV 1/5; 1212/1980] END leaf\_size=32, n\_neighbors=24;; score=0.646 total time=0.0s  
 [CV 2/5; 1212/1980] START leaf\_size=32, n\_neighbors=24...  
 [CV 1/5; 1206/1980] END leaf\_size=32, n\_neighbors=18;; score=0.635 total time=0.0s  
 [CV 2/5; 1206/1980] START leaf\_size=32, n\_neighbors=18...  
 [CV 3/5; 1210/1980] END leaf\_size=32, n\_neighbors=22;; score=0.555 total time=0.0s  
 [CV 4/5; 1210/1980] START leaf\_size=32, n\_neighbors=22...  
 [CV 5/5; 1207/1980] END leaf\_size=32, n\_neighbors=19;; score=0.626 total time=0.0s  
 [CV 1/5; 1208/1980] START leaf\_size=32, n\_neighbors=20...  
 [CV 3/5; 1213/1980] END leaf\_size=32, n\_neighbors=25;; score=0.557 total time=0.0s  
 [CV 4/5; 1213/1980] START leaf\_size=32, n\_neighbors=25...

[CV 3/5; 1216/1980] END leaf\_size=32, n\_neighbors=28;; score=0.568 total time=0.0s  
 [CV 4/5; 1216/1980] START leaf\_size=32, n\_neighbors=28..  
 [CV 1/5; 1215/1980] END leaf\_size=32, n\_neighbors=27;; score=0.650 total time=0.0s  
 [CV 2/5; 1215/1980] START leaf\_size=32, n\_neighbors=27..  
 [CV 5/5; 1217/1980] END leaf\_size=32, n\_neighbors=29;; score=0.639 total time=0.0s  
 [CV 1/5; 1218/1980] START leaf\_size=32, n\_neighbors=30..  
 [CV 3/5; 1219/1980] END leaf\_size=32, n\_neighbors=31;; score=0.570 total time=0.0s  
 [CV 4/5; 1219/1980] START leaf\_size=32, n\_neighbors=31..  
 [CV 2/5; 1212/1980] END leaf\_size=32, n\_neighbors=24;; score=0.596 total time=0.0s  
 [CV 3/5; 1212/1980] START leaf\_size=32, n\_neighbors=24..  
 [CV 1/5; 1209/1980] END leaf\_size=32, n\_neighbors=21;; score=0.626 total time=0.0s  
 [CV 2/5; 1209/1980] START leaf\_size=32, n\_neighbors=21..  
 [CV 4/5; 1210/1980] END leaf\_size=32, n\_neighbors=22;; score=0.600 total time=0.0s  
 [CV 5/5; 1210/1980] START leaf\_size=32, n\_neighbors=22..  
 [CV 1/5; 1208/1980] END leaf\_size=32, n\_neighbors=20;; score=0.618 total time=0.0s  
 [CV 2/5; 1206/1980] END leaf\_size=32, n\_neighbors=18;; score=0.590 total time=0.0s  
 [CV 3/5; 1206/1980] START leaf\_size=32, n\_neighbors=18..  
 [CV 1/5; 1221/1980] START leaf\_size=32, n\_neighbors=33..  
 [CV 4/5; 1213/1980] END leaf\_size=32, n\_neighbors=25;; score=0.587 total time=0.0s  
 [CV 5/5; 1213/1980] START leaf\_size=32, n\_neighbors=25..  
 [CV 2/5; 1215/1980] END leaf\_size=32, n\_neighbors=27;; score=0.594 total time=0.0s  
 [CV 3/5; 1215/1980] START leaf\_size=32, n\_neighbors=27..  
 [CV 4/5; 1219/1980] END leaf\_size=32, n\_neighbors=31;; score=0.595 total time=0.0s  
 [CV 5/5; 1219/1980] START leaf\_size=32, n\_neighbors=31..  
 [CV 1/5; 1218/1980] END leaf\_size=32, n\_neighbors=30;; score=0.639 total time=0.0s  
 [CV 2/5; 1209/1980] END leaf\_size=32, n\_neighbors=21;; score=0.581 total time=0.0s  
 [CV 2/5; 1218/1980] START leaf\_size=32, n\_neighbors=30..  
  
 [CV 3/5; 1209/1980] START leaf\_size=32, n\_neighbors=21..  
 [CV 3/5; 1212/1980] END leaf\_size=32, n\_neighbors=24;; score=0.564 total time=0.0s  
 [CV 4/5; 1212/1980] START leaf\_size=32, n\_neighbors=24..  
 [CV 5/5; 1210/1980] END leaf\_size=32, n\_neighbors=22;; score=0.628 total time=0.0s

[CV 1/5; 1211/1980] START leaf\_size=32, n\_neighbors=23...  
 [CV 1/5; 1221/1980] END leaf\_size=32, n\_neighbors=33;; score=0.646 total time=0.0s  
 [CV 2/5; 1221/1980] START leaf\_size=32, n\_neighbors=33...  
 [CV 4/5; 1216/1980] END leaf\_size=32, n\_neighbors=28;; score=0.597 total time=0.0s  
 [CV 5/5; 1216/1980] START leaf\_size=32, n\_neighbors=28...  
 [CV 3/5; 1206/1980] END leaf\_size=32, n\_neighbors=18;; score=0.555 total time=0.0s  
 [CV 5/5; 1213/1980] END leaf\_size=32, n\_neighbors=25;; score=0.647 total time=0.0s  
 [CV 1/5; 1214/1980] START leaf\_size=32, n\_neighbors=26...  
 [CV 4/5; 1222/1980] START leaf\_size=32, n\_neighbors=34...  
 [CV 3/5; 1215/1980] END leaf\_size=32, n\_neighbors=27;; score=0.568 total time=0.0s  
 [CV 4/5; 1215/1980] START leaf\_size=32, n\_neighbors=27...  
 [CV 3/5; 1209/1980] END leaf\_size=32, n\_neighbors=21;; score=0.559 total time=0.0s  
 [CV 5/5; 1219/1980] END leaf\_size=32, n\_neighbors=31;; score=0.634 total time= 0.0s  
  
 [CV 1/5; 1220/1980] START leaf\_size=32, n\_neighbors=32...  
 [CV 4/5; 1209/1980] START leaf\_size=32, n\_neighbors=21...  
  
 [CV 2/5; 1218/1980] END leaf\_size=32, n\_neighbors=30;; score=0.607 total time=0.0s  
 [CV 4/5; 1212/1980] END leaf\_size=32, n\_neighbors=24;; score=0.597 total time=0.0s  
 [CV 3/5; 1218/1980] START leaf\_size=32, n\_neighbors=30...  
  
 [CV 5/5; 1212/1980] START leaf\_size=32, n\_neighbors=24...  
 [CV 2/5; 1221/1980] END leaf\_size=32, n\_neighbors=33;; score=0.607 total time=0.0s  
 [CV 3/5; 1221/1980] START leaf\_size=32, n\_neighbors=33...  
 [CV 5/5; 1216/1980] END leaf\_size=32, n\_neighbors=28;; score=0.641 total time=0.0s  
 [CV 1/5; 1217/1980] START leaf\_size=32, n\_neighbors=29...  
 [CV 1/5; 1211/1980] END leaf\_size=32, n\_neighbors=23;; score=0.646 total time=0.0s  
 [CV 2/5; 1211/1980] START leaf\_size=32, n\_neighbors=23...  
 [CV 1/5; 1214/1980] END leaf\_size=32, n\_neighbors=26;; score=0.639 total time=0.0s  
 [CV 2/5; 1214/1980] START leaf\_size=32, n\_neighbors=26...  
 [CV 4/5; 1215/1980] END leaf\_size=32, n\_neighbors=27;; score=0.593 total time=0.0s  
 [CV 5/5; 1215/1980] START leaf\_size=32, n\_neighbors=27...  
 [CV 4/5; 1222/1980] END leaf\_size=32, n\_neighbors=34;; score=0.597 total time=0.0s

[CV 5/5; 1222/1980] START leaf\_size=32, n\_neighbors=34...  
 [CV 4/5; 1209/1980] END leaf\_size=32, n\_neighbors=21;; score=0.606 total time=0.0s  
 [CV 2/5; 1224/1980] START leaf\_size=32, n\_neighbors=36...  
 [CV 1/5; 1220/1980] END leaf\_size=32, n\_neighbors=32;; score=0.639 total time=0.0s  
 [CV 2/5; 1220/1980] START leaf\_size=32, n\_neighbors=32...  
 [CV 3/5; 1221/1980] END leaf\_size=32, n\_neighbors=33;; score=0.570 total time=0.0s  
 [CV 4/5; 1221/1980] START leaf\_size=32, n\_neighbors=33...  
 [CV 5/5; 1212/1980] END leaf\_size=32, n\_neighbors=24;; score=0.647 total time=0.0s  
 [CV 3/5; 1218/1980] END leaf\_size=32, n\_neighbors=30;; score=0.579 total time=0.0s  
 [CV 4/5; 1218/1980] START leaf\_size=32, n\_neighbors=30...  
 [CV 1/5; 1217/1980] END leaf\_size=32, n\_neighbors=29;; score=0.646 total time=0.0s  
 [CV 2/5; 1217/1980] START leaf\_size=32, n\_neighbors=29...  
 [CV 5/5; 1225/1980] START leaf\_size=32, n\_neighbors=37...  
 [CV 5/5; 1215/1980] END leaf\_size=32, n\_neighbors=27;; score=0.630 total time=0.0s  
 [CV 1/5; 1216/1980] START leaf\_size=32, n\_neighbors=28...  
 [CV 2/5; 1214/1980] END leaf\_size=32, n\_neighbors=26;; score=0.600 total time=0.0s  
 [CV 3/5; 1214/1980] START leaf\_size=32, n\_neighbors=26...  
 [CV 5/5; 1222/1980] END leaf\_size=32, n\_neighbors=34;; score=0.634 total time=0.0s  
 [CV 1/5; 1223/1980] START leaf\_size=32, n\_neighbors=35...  
 [CV 2/5; 1224/1980] END leaf\_size=32, n\_neighbors=36;; score=0.616 total time=0.0s  
 [CV 3/5; 1224/1980] START leaf\_size=32, n\_neighbors=36...  
 [CV 2/5; 1211/1980] END leaf\_size=32, n\_neighbors=23;; score=0.583 total time=0.0s  
 [CV 3/5; 1227/1980] START leaf\_size=32, n\_neighbors=39...  
 [CV 4/5; 1221/1980] END leaf\_size=32, n\_neighbors=33;; score=0.597 total time=0.0s  
 [CV 5/5; 1221/1980] START leaf\_size=32, n\_neighbors=33...  
 [CV 2/5; 1220/1980] END leaf\_size=32, n\_neighbors=32;; score=0.605 total time=0.0s  
 [CV 3/5; 1220/1980] START leaf\_size=32, n\_neighbors=32...  
 [CV 4/5; 1218/1980] END leaf\_size=32, n\_neighbors=30;; score=0.595 total time=0.0s  
 [CV 5/5; 1218/1980] START leaf\_size=32, n\_neighbors=30...  
 [CV 2/5; 1217/1980] END leaf\_size=32, n\_neighbors=29;; score=0.600 total time=0.0s  
 [CV 3/5; 1217/1980] START leaf\_size=32, n\_neighbors=29...  
 [CV 5/5; 1225/1980] END leaf\_size=32, n\_neighbors=37;; score=0.628 total time=0.0s

[CV 1/5; 1226/1980] START leaf\_size=32, n\_neighbors=38...  
 [CV 1/5; 1216/1980] END leaf\_size=32, n\_neighbors=28;; score=0.650 total time=0.0s  
 [CV 3/5; 1214/1980] END leaf\_size=32, n\_neighbors=26;; score=0.564 total time=0.0s  
 [CV 3/5; 1224/1980] END leaf\_size=32, n\_neighbors=36;; score=0.566 total time=0.0s  
 [CV 4/5; 1224/1980] START leaf\_size=32, n\_neighbors=36...  
 [CV 1/5; 1229/1980] START leaf\_size=32, n\_neighbors=41...  
 [CV 1/5; 1223/1980] END leaf\_size=32, n\_neighbors=35;; score=0.650 total time=0.0s  
 [CV 2/5; 1223/1980] START leaf\_size=32, n\_neighbors=35...  
 [CV 4/5; 1230/1980] START leaf\_size=32, n\_neighbors=42...  
 [CV 5/5; 1221/1980] END leaf\_size=32, n\_neighbors=33;; score=0.630 total time=0.0s  
 [CV 1/5; 1222/1980] START leaf\_size=32, n\_neighbors=34...  
 [CV 3/5; 1220/1980] END leaf\_size=32, n\_neighbors=32;; score=0.577 total time=0.0s  
 [CV 5/5; 1218/1980] END leaf\_size=32, n\_neighbors=30;; score=0.632 total time=0.0s  
 [CV 4/5; 1220/1980] START leaf\_size=32, n\_neighbors=32...  
 [CV 1/5; 1219/1980] START leaf\_size=32, n\_neighbors=31...  
 [CV 3/5; 1227/1980] END leaf\_size=32, n\_neighbors=39;; score=0.575 total time=0.0s  
 [CV 3/5; 1217/1980] END leaf\_size=32, n\_neighbors=29;; score=0.577 total time=0.0s  
  
 [CV 4/5; 1217/1980] START leaf\_size=32, n\_neighbors=29...  
 [CV 4/5; 1227/1980] START leaf\_size=32, n\_neighbors=39...  
 [CV 1/5; 1226/1980] END leaf\_size=32, n\_neighbors=38;; score=0.652 total time=0.0s  
 [CV 2/5; 1226/1980] START leaf\_size=32, n\_neighbors=38...  
 [CV 4/5; 1224/1980] END leaf\_size=32, n\_neighbors=36;; score=0.600 total time=0.0s  
 [CV 5/5; 1224/1980] START leaf\_size=32, n\_neighbors=36...  
 [CV 1/5; 1229/1980] END leaf\_size=32, n\_neighbors=41;; score=0.665 total time=0.0s  
 [CV 2/5; 1229/1980] START leaf\_size=32, n\_neighbors=41...  
 [CV 4/5; 1230/1980] END leaf\_size=32, n\_neighbors=42;; score=0.608 total time=0.0s  
 [CV 5/5; 1230/1980] START leaf\_size=32, n\_neighbors=42...  
 [CV 1/5; 1222/1980] END leaf\_size=32, n\_neighbors=34;; score=0.644 total time=0.0s  
 [CV 2/5; 1222/1980] START leaf\_size=32, n\_neighbors=34...  
 [CV 2/5; 1223/1980] END leaf\_size=32, n\_neighbors=35;; score=0.607 total time=0.0s  
 [CV 3/5; 1223/1980] START leaf\_size=32, n\_neighbors=35...  
 [CV 1/5; 1219/1980] END leaf\_size=32, n\_neighbors=31;; score=0.644 total time=0.0s

[CV 2/5; 1219/1980] START leaf\_size=32, n\_neighbors=31...  
 [CV 4/5; 1220/1980] END leaf\_size=32, n\_neighbors=32;; score=0.593 total time=0.0s  
 [CV 5/5; 1220/1980] START leaf\_size=32, n\_neighbors=32...  
 [CV 4/5; 1217/1980] END leaf\_size=32, n\_neighbors=29;; score=0.600 total time=0.0s  
 [CV 2/5; 1226/1980] END leaf\_size=32, n\_neighbors=38;; score=0.613 total time=0.0s  
 [CV 3/5; 1226/1980] START leaf\_size=32, n\_neighbors=38...  
 [CV 2/5; 1232/1980] START leaf\_size=32, n\_neighbors=44...  
 [CV 4/5; 1227/1980] END leaf\_size=32, n\_neighbors=39;; score=0.602 total time=0.0s  
 [CV 5/5; 1224/1980] END leaf\_size=32, n\_neighbors=36;; score=0.628 total time= 0.0s  
  
 [CV 1/5; 1225/1980] START leaf\_size=32, n\_neighbors=37...  
 [CV 5/5; 1227/1980] START leaf\_size=32, n\_neighbors=39...  
 [CV 2/5; 1229/1980] END leaf\_size=32, n\_neighbors=41;; score=0.618 total time=0.0s  
 [CV 3/5; 1229/1980] START leaf\_size=32, n\_neighbors=41...  
 [CV 5/5; 1230/1980] END leaf\_size=32, n\_neighbors=42;; score=0.621 total time=0.0s  
 [CV 1/5; 1231/1980] START leaf\_size=32, n\_neighbors=43...  
 [CV 2/5; 1222/1980] END leaf\_size=32, n\_neighbors=34;; score=0.600 total time=0.0s  
 [CV 3/5; 1222/1980] START leaf\_size=32, n\_neighbors=34...  
 [CV 2/5; 1219/1980] END leaf\_size=32, n\_neighbors=31;; score=0.603 total time=0.0s  
 [CV 3/5; 1223/1980] END leaf\_size=32, n\_neighbors=35;; score=0.572 total time=0.0s  
 [CV 4/5; 1223/1980] START leaf\_size=32, n\_neighbors=35...  
 [CV 5/5; 1233/1980] START leaf\_size=32, n\_neighbors=45...  
 [CV 5/5; 1220/1980] END leaf\_size=32, n\_neighbors=32;; score=0.628 total time=0.0s  
 [CV 3/5; 1235/1980] START leaf\_size=32, n\_neighbors=47...  
 [CV 3/5; 1226/1980] END leaf\_size=32, n\_neighbors=38;; score=0.566 total time=0.0s  
 [CV 4/5; 1226/1980] START leaf\_size=32, n\_neighbors=38...  
 [CV 1/5; 1225/1980] END leaf\_size=32, n\_neighbors=37;; score=0.657 total time=0.0s  
 [CV 2/5; 1225/1980] START leaf\_size=32, n\_neighbors=37...  
 [CV 2/5; 1232/1980] END leaf\_size=32, n\_neighbors=44;; score=0.613 total time=0.0s  
 [CV 3/5; 1232/1980] START leaf\_size=32, n\_neighbors=44...  
 [CV 5/5; 1227/1980] END leaf\_size=32, n\_neighbors=39;; score=0.636 total time=0.0s  
 [CV 1/5; 1228/1980] START leaf\_size=32, n\_neighbors=40...  
 [CV 3/5; 1229/1980] END leaf\_size=32, n\_neighbors=41;; score=0.568 total time=0.0s

[CV 4/5; 1229/1980] START leaf\_size=32, n\_neighbors=41...  
 [CV 3/5; 1222/1980] END leaf\_size=32, n\_neighbors=34;; score=0.577 total time=0.0s  
 [CV 1/5; 1237/1980] START leaf\_size=32, n\_neighbors=49...  
 [CV 1/5; 1231/1980] END leaf\_size=32, n\_neighbors=43;; score=0.674 total time=0.0s  
 [CV 2/5; 1231/1980] START leaf\_size=32, n\_neighbors=43...  
 [CV 2/5; 1225/1980] END leaf\_size=32, n\_neighbors=37;; score=0.607 total time=0.0s  
 [CV 3/5; 1225/1980] START leaf\_size=32, n\_neighbors=37...  
 [CV 4/5; 1223/1980] END leaf\_size=32, n\_neighbors=35;; score=0.604 total time=0.0s  
 [CV 5/5; 1223/1980] START leaf\_size=32, n\_neighbors=35...  
 [CV 5/5; 1233/1980] END leaf\_size=32, n\_neighbors=45;; score=0.619 total time=0.0s  
 [CV 1/5; 1234/1980] START leaf\_size=32, n\_neighbors=46...  
 [CV 4/5; 1226/1980] END leaf\_size=32, n\_neighbors=38;; score=0.602 total time=0.0s  
 [CV 5/5; 1226/1980] START leaf\_size=32, n\_neighbors=38...  
 [CV 3/5; 1235/1980] END leaf\_size=32, n\_neighbors=47;; score=0.572 total time=0.0s  
 [CV 4/5; 1235/1980] START leaf\_size=32, n\_neighbors=47...  
 [CV 3/5; 1232/1980] END leaf\_size=32, n\_neighbors=44;; score=0.570 total time=0.0s  
 [CV 4/5; 1232/1980] START leaf\_size=32, n\_neighbors=44...  
 [CV 4/5; 1229/1980] END leaf\_size=32, n\_neighbors=41;; score=0.610 total time=0.0s  
 [CV 5/5; 1229/1980] START leaf\_size=32, n\_neighbors=41...  
 [CV 1/5; 1228/1980] END leaf\_size=32, n\_neighbors=40;; score=0.661 total time=0.0s  
 [CV 2/5; 1228/1980] START leaf\_size=32, n\_neighbors=40...  
 [CV 1/5; 1237/1980] END leaf\_size=32, n\_neighbors=49;; score=0.676 total time=0.0s  
 [CV 2/5; 1237/1980] START leaf\_size=32, n\_neighbors=49...  
 [CV 2/5; 1231/1980] END leaf\_size=32, n\_neighbors=43;; score=0.616 total time=0.0s  
 [CV 3/5; 1231/1980] START leaf\_size=32, n\_neighbors=43...  
 [CV 5/5; 1223/1980] END leaf\_size=32, n\_neighbors=35;; score=0.639 total time=0.0s  
 [CV 1/5; 1224/1980] START leaf\_size=32, n\_neighbors=36...  
 [CV 5/5; 1226/1980] END leaf\_size=32, n\_neighbors=38;; score=0.634 total time=0.0s  
 [CV 1/5; 1227/1980] START leaf\_size=32, n\_neighbors=39...  
 [CV 1/5; 1234/1980] END leaf\_size=32, n\_neighbors=46;; score=0.672 total time=0.0s  
 [CV 5/5; 1229/1980] END leaf\_size=32, n\_neighbors=41;; score=0.619 total time=0.0s  
 [CV 1/5; 1230/1980] START leaf\_size=32,

n\_neighbors=42...[CV 2/5; 1234/1980] START leaf\_size=32,  
 n\_neighbors=46...

[CV 4/5; 1235/1980] END leaf\_size=32, n\_neighbors=47;; score=0.589 total time=  
 0.0s

[CV 5/5; 1235/1980] START leaf\_size=32, n\_neighbors=47...

[CV 3/5; 1225/1980] END leaf\_size=32, n\_neighbors=37;; score=0.568 total time=  
 0.0s

[CV 4/5; 1225/1980] START leaf\_size=32, n\_neighbors=37...

[CV 2/5; 1228/1980] END leaf\_size=32, n\_neighbors=40;; score=0.611 total time=  
 0.0s

[CV 3/5; 1228/1980] START leaf\_size=32, n\_neighbors=40...

[CV 4/5; 1232/1980] END leaf\_size=32, n\_neighbors=44;; score=0.597 total time=  
 0.0s

[CV 5/5; 1232/1980] START leaf\_size=32, n\_neighbors=44...

[CV 2/5; 1237/1980] END leaf\_size=32, n\_neighbors=49;; score=0.622 total time=  
 0.0s

[CV 3/5; 1237/1980] START leaf\_size=32, n\_neighbors=49...

[CV 3/5; 1231/1980] END leaf\_size=32, n\_neighbors=43;; score=0.566 total time=  
 0.0s

[CV 4/5; 1231/1980] START leaf\_size=32, n\_neighbors=43...

[CV 1/5; 1224/1980] END leaf\_size=32, n\_neighbors=36;; score=0.644 total time=  
 0.0s

[CV 1/5; 1230/1980] END leaf\_size=32, n\_neighbors=42;; score=0.667 total time=  
 0.0s

[CV 2/5; 1230/1980] START leaf\_size=32, n\_neighbors=42...

[CV 4/5; 1238/1980] START leaf\_size=32, n\_neighbors=50...

[CV 1/5; 1227/1980] END leaf\_size=32, n\_neighbors=39;; score=0.654 total time=  
 0.0s

[CV 2/5; 1227/1980] START leaf\_size=32, n\_neighbors=39...

[CV 4/5; 1225/1980] END leaf\_size=32, n\_neighbors=37;; score=0.610 total time=  
 0.0s

[CV 2/5; 1234/1980] END leaf\_size=32, n\_neighbors=46;; score=0.616 total time=  
 0.0s

[CV 3/5; 1234/1980] START leaf\_size=32, n\_neighbors=46...

[CV 5/5; 1235/1980] END leaf\_size=32, n\_neighbors=47;; score=0.623 total time=  
 0.0s

[CV 1/5; 1236/1980] START leaf\_size=32, n\_neighbors=48...

[CV 2/5; 1240/1980] START leaf\_size=32, n\_neighbors=52...

[CV 3/5; 1237/1980] END leaf\_size=32, n\_neighbors=49;; score=0.568 total time=  
 0.0s

[CV 4/5; 1237/1980] START leaf\_size=32, n\_neighbors=49...

[CV 5/5; 1232/1980] END leaf\_size=32, n\_neighbors=44;; score=0.615 total time=  
 0.0s[CV 3/5; 1228/1980] END leaf\_size=32, n\_neighbors=40;; score=0.572 total  
 time= 0.0s

[CV 4/5; 1228/1980] START leaf\_size=32, n\_neighbors=40...

[CV 1/5; 1233/1980] START leaf\_size=32, n\_neighbors=45...



[CV 4/5; 1231/1980] END leaf\_size=32, n\_neighbors=43;; score=0.600 total time=0.0s  
 [CV 5/5; 1231/1980] START leaf\_size=32, n\_neighbors=43...  
 [CV 2/5; 1230/1980] END leaf\_size=32, n\_neighbors=42;; score=0.618 total time=0.0s  
 [CV 3/5; 1230/1980] START leaf\_size=32, n\_neighbors=42...  
 [CV 4/5; 1238/1980] END leaf\_size=32, n\_neighbors=50;; score=0.597 total time=0.0s  
 [CV 5/5; 1238/1980] START leaf\_size=32, n\_neighbors=50...  
 [CV 2/5; 1227/1980] END leaf\_size=32, n\_neighbors=39;; score=0.609 total time=0.0s  
 [CV 2/5; 1240/1980] END leaf\_size=32, n\_neighbors=52;; score=0.611 total time=0.0s  
 [CV 3/5; 1240/1980] START leaf\_size=32, n\_neighbors=52...  
 [CV 3/5; 1234/1980] END leaf\_size=32, n\_neighbors=46;; score=0.572 total time=0.0s  
 [CV 4/5; 1234/1980] START leaf\_size=32, n\_neighbors=46...  
 [CV 5/5; 1241/1980] START leaf\_size=32, n\_neighbors=53...  
 [CV 1/5; 1236/1980] END leaf\_size=32, n\_neighbors=48;; score=0.672 total time=0.0s  
 [CV 2/5; 1236/1980] START leaf\_size=32, n\_neighbors=48...  
 [CV 4/5; 1237/1980] END leaf\_size=32, n\_neighbors=49;; score=0.593 total time=0.0s  
 [CV 5/5; 1237/1980] START leaf\_size=32, n\_neighbors=49...  
 [CV 1/5; 1233/1980] END leaf\_size=32, n\_neighbors=45;; score=0.678 total time=0.0s  
 [CV 2/5; 1233/1980] START leaf\_size=32, n\_neighbors=45...  
 [CV 4/5; 1228/1980] END leaf\_size=32, n\_neighbors=40;; score=0.595 total time=0.0s  
 [CV 5/5; 1228/1980] START leaf\_size=32, n\_neighbors=40...  
 [CV 3/5; 1230/1980] END leaf\_size=32, n\_neighbors=42;; score=0.564 total time=0.0s  
 [CV 5/5; 1231/1980] END leaf\_size=32, n\_neighbors=43;; score=0.615 total time=0.0s  
 [CV 3/5; 1243/1980] START leaf\_size=32, n\_neighbors=55...  
  
 [CV 1/5; 1232/1980] START leaf\_size=32, n\_neighbors=44...  
 [CV 3/5; 1240/1980] END leaf\_size=32, n\_neighbors=52;; score=0.566 total time=0.0s  
 [CV 4/5; 1240/1980] START leaf\_size=32, n\_neighbors=52...  
 [CV 4/5; 1234/1980] END leaf\_size=32, n\_neighbors=46;; score=0.597 total time=0.0s  
 [CV 5/5; 1234/1980] START leaf\_size=32, n\_neighbors=46...  
 [CV 5/5; 1241/1980] END leaf\_size=32, n\_neighbors=53;; score=0.613 total time=0.0s  
 [CV 1/5; 1242/1980] START leaf\_size=32, n\_neighbors=54...  
 [CV 5/5; 1237/1980] END leaf\_size=32, n\_neighbors=49;; score=0.623 total time=0.0s

[CV 1/5; 1238/1980] START leaf\_size=32, n\_neighbors=50...  
 [CV 2/5; 1236/1980] END leaf\_size=32, n\_neighbors=48;; score=0.609 total time=0.0s  
 [CV 3/5; 1236/1980] START leaf\_size=32, n\_neighbors=48...  
 [CV 5/5; 1238/1980] END leaf\_size=32, n\_neighbors=50;; score=0.619 total time=0.0s  
 [CV 1/5; 1239/1980] START leaf\_size=32, n\_neighbors=51...  
 [CV 2/5; 1233/1980] END leaf\_size=32, n\_neighbors=45;; score=0.611 total time=0.0s  
 [CV 3/5; 1233/1980] START leaf\_size=32, n\_neighbors=45...  
 [CV 3/5; 1243/1980] END leaf\_size=32, n\_neighbors=55;; score=0.564 total time=0.0s  
 [CV 4/5; 1243/1980] START leaf\_size=32, n\_neighbors=55...  
 [CV 4/5; 1240/1980] END leaf\_size=32, n\_neighbors=52;; score=0.597 total time=0.0s  
 [CV 5/5; 1240/1980] START leaf\_size=32, n\_neighbors=52...  
 [CV 1/5; 1232/1980] END leaf\_size=32, n\_neighbors=44;; score=0.667 total time=0.0s  
 [CV 5/5; 1228/1980] END leaf\_size=32, n\_neighbors=40;; score=0.617 total time=0.0s  
 [CV 1/5; 1245/1980] START leaf\_size=32, n\_neighbors=57...  
 [CV 3/5; 1236/1980] END leaf\_size=32, n\_neighbors=48;; score=0.562 total time=0.0s  
 [CV 4/5; 1236/1980] START leaf\_size=32, n\_neighbors=48...  
 [CV 1/5; 1238/1980] END leaf\_size=32, n\_neighbors=50;; score=0.678 total time=0.0s  
 [CV 2/5; 1238/1980] START leaf\_size=32, n\_neighbors=50...  
 [CV 5/5; 1234/1980] END leaf\_size=32, n\_neighbors=46;; score=0.619 total time=0.0s  
 [CV 1/5; 1235/1980] START leaf\_size=32, n\_neighbors=47...  
 [CV 1/5; 1242/1980] END leaf\_size=32, n\_neighbors=54;; score=0.667 total time=0.0s  
 [CV 2/5; 1242/1980] START leaf\_size=32, n\_neighbors=54...  
 [CV 4/5; 1246/1980] START leaf\_size=32, n\_neighbors=58...  
 [CV 1/5; 1239/1980] END leaf\_size=32, n\_neighbors=51;; score=0.680 total time=0.0s  
 [CV 2/5; 1239/1980] START leaf\_size=32, n\_neighbors=51...  
 [CV 4/5; 1243/1980] END leaf\_size=32, n\_neighbors=55;; score=0.593 total time=0.0s  
 [CV 5/5; 1243/1980] START leaf\_size=32, n\_neighbors=55...  
 [CV 3/5; 1233/1980] END leaf\_size=32, n\_neighbors=45;; score=0.575 total time=0.0s  
 [CV 4/5; 1233/1980] START leaf\_size=32,  
 n\_neighbors=45...[CV 5/5; 1240/1980] END leaf\_size=32,  
 n\_neighbors=52;; score=0.619 total time= 0.0s  
  
 [CV 1/5; 1241/1980] START leaf\_size=32, n\_neighbors=53...  
 [CV 2/5; 1238/1980] END leaf\_size=32, n\_neighbors=50;; score=0.603 total time=

0.0s  
[CV 3/5; 1238/1980] START leaf\_size=32, n\_neighbors=50...  
[CV 4/5; 1236/1980] END leaf\_size=32, n\_neighbors=48;; score=0.589 total time=0.0s  
[CV 5/5; 1236/1980] START leaf\_size=32, n\_neighbors=48...  
[CV 1/5; 1235/1980] END leaf\_size=32, n\_neighbors=47;; score=0.676 total time=0.0s  
[CV 2/5; 1235/1980] START leaf\_size=32, n\_neighbors=47...  
[CV 1/5; 1245/1980] END leaf\_size=32, n\_neighbors=57;; score=0.665 total time=0.0s  
[CV 2/5; 1245/1980] START leaf\_size=32, n\_neighbors=57...  
[CV 2/5; 1242/1980] END leaf\_size=32, n\_neighbors=54;; score=0.618 total time=0.0s  
[CV 3/5; 1242/1980] START leaf\_size=32, n\_neighbors=54...  
[CV 4/5; 1246/1980] END leaf\_size=32, n\_neighbors=58;; score=0.595 total time=0.0s  
[CV 2/5; 1239/1980] END leaf\_size=32, n\_neighbors=51;; score=0.618 total time=0.0s  
[CV 5/5; 1246/1980] START leaf\_size=32, n\_neighbors=58...  
[CV 3/5; 1239/1980] START leaf\_size=32, n\_neighbors=51...  
[CV 5/5; 1243/1980] END leaf\_size=32, n\_neighbors=55;; score=0.608 total time=0.0s  
[CV 1/5; 1244/1980] START leaf\_size=32, n\_neighbors=56...  
[CV 1/5; 1241/1980] END leaf\_size=32, n\_neighbors=53;; score=0.678 total time=0.0s  
[CV 2/5; 1241/1980] START leaf\_size=32, n\_neighbors=53...  
[CV 4/5; 1233/1980] END leaf\_size=32, n\_neighbors=45;; score=0.600 total time=0.0s  
[CV 2/5; 1248/1980] START leaf\_size=32, n\_neighbors=60...  
[CV 3/5; 1238/1980] END leaf\_size=32, n\_neighbors=50;; score=0.557 total time=0.0s  
[CV 5/5; 1249/1980] START leaf\_size=32, n\_neighbors=61...  
[CV 2/5; 1245/1980] END leaf\_size=32, n\_neighbors=57;; score=0.616 total time=0.0s  
[CV 3/5; 1245/1980] START leaf\_size=32, n\_neighbors=57...  
[CV 2/5; 1235/1980] END leaf\_size=32, n\_neighbors=47;; score=0.611 total time=0.0s  
[CV 5/5; 1236/1980] END leaf\_size=32, n\_neighbors=48;; score=0.630 total time=0.0s  
[CV 3/5; 1251/1980] START leaf\_size=32, n\_neighbors=63...  
[CV 3/5; 1242/1980] END leaf\_size=32, n\_neighbors=54;; score=0.562 total time=0.0s  
[CV 4/5; 1242/1980] START leaf\_size=32, n\_neighbors=54...  
[CV 1/5; 1253/1980] START leaf\_size=32, n\_neighbors=65...  
[CV 1/5; 1244/1980] END leaf\_size=32, n\_neighbors=56;; score=0.670 total time=0.0s  
[CV 2/5; 1244/1980] START leaf\_size=32, n\_neighbors=56...  
[CV 2/5; 1241/1980] END leaf\_size=32, n\_neighbors=53;; score=0.611 total time=

0.0s  
 [CV 3/5; 1241/1980] START leaf\_size=32, n\_neighbors=53...  
 [CV 5/5; 1246/1980] END leaf\_size=32, n\_neighbors=58;; score=0.610 total time=  
 0.0s  
 [CV 1/5; 1247/1980] START leaf\_size=32, n\_neighbors=59...  
 [CV 3/5; 1239/1980] END leaf\_size=32, n\_neighbors=51;; score=0.566 total time=  
 0.0s  
 [CV 4/5; 1239/1980] START leaf\_size=32, n\_neighbors=51...  
 [CV 2/5; 1248/1980] END leaf\_size=32, n\_neighbors=60;; score=0.605 total time=  
 0.0s  
 [CV 3/5; 1248/1980] START leaf\_size=32, n\_neighbors=60...  
 [CV 5/5; 1249/1980] END leaf\_size=32, n\_neighbors=61;; score=0.606 total time=  
 0.0s  
 [CV 1/5; 1250/1980] START leaf\_size=32, n\_neighbors=62...  
 [CV 3/5; 1245/1980] END leaf\_size=32, n\_neighbors=57;; score=0.559 total time=  
 0.0s  
 [CV 4/5; 1245/1980] START leaf\_size=32, n\_neighbors=57...  
 [CV 4/5; 1242/1980] END leaf\_size=32, n\_neighbors=54;; score=0.595 total time=  
 0.0s  
 [CV 5/5; 1242/1980] START leaf\_size=32, n\_neighbors=54...  
 [CV 2/5; 1244/1980] END leaf\_size=32, n\_neighbors=56;; score=0.609 total time=  
 0.0s  
 [CV 3/5; 1244/1980] START leaf\_size=32, n\_neighbors=56...  
 [CV 3/5; 1241/1980] END leaf\_size=32, n\_neighbors=53;; score=0.572 total time=  
 0.0s  
 [CV 4/5; 1241/1980] START leaf\_size=32, n\_neighbors=53...  
 [CV 3/5; 1251/1980] END leaf\_size=32, n\_neighbors=63;; score=0.562 total time=  
 0.0s  
 [CV 4/5; 1251/1980] START leaf\_size=32, n\_neighbors=63...  
 [CV 1/5; 1253/1980] END leaf\_size=32, n\_neighbors=65;; score=0.663 total time=  
 0.0s  
 [CV 2/5; 1253/1980] START leaf\_size=32, n\_neighbors=65...  
 [CV 4/5; 1239/1980] END leaf\_size=32, n\_neighbors=51;; score=0.602 total time=  
 0.0s  
 [CV 5/5; 1239/1980] START leaf\_size=32, n\_neighbors=51...  
 [CV 1/5; 1247/1980] END leaf\_size=32, n\_neighbors=59;; score=0.670 total time=  
 0.0s  
 [CV 2/5; 1247/1980] START leaf\_size=32, n\_neighbors=59...  
 [CV 3/5; 1248/1980] END leaf\_size=32, n\_neighbors=60;; score=0.553 total time=  
 0.0s  
 [CV 4/5; 1248/1980] START leaf\_size=32, n\_neighbors=60...  
 [CV 4/5; 1245/1980] END leaf\_size=32, n\_neighbors=57;; score=0.597 total time=  
 0.0s  
 [CV 5/5; 1245/1980] START leaf\_size=32, n\_neighbors=57...  
 [CV 4/5; 1241/1980] END leaf\_size=32, n\_neighbors=53;; score=0.600 total time=  
 0.0s  
 [CV 5/5; 1242/1980] END leaf\_size=32, n\_neighbors=54;; score=0.608 total time=  
 0.0s

[CV 1/5; 1243/1980] START leaf\_size=32, n\_neighbors=55...  
 [CV 4/5; 1254/1980] START leaf\_size=32, n\_neighbors=66...  
 [CV 1/5; 1250/1980] END leaf\_size=32, n\_neighbors=62;; score=0.663 total time=0.0s  
 [CV 2/5; 1250/1980] START leaf\_size=32, n\_neighbors=62...  
 [CV 3/5; 1244/1980] END leaf\_size=32, n\_neighbors=56;; score=0.551 total time=0.0s  
 [CV 4/5; 1244/1980] START leaf\_size=32, n\_neighbors=56...  
 [CV 4/5; 1251/1980] END leaf\_size=32, n\_neighbors=63;; score=0.604 total time=0.0s  
 [CV 5/5; 1251/1980] START leaf\_size=32, n\_neighbors=63...  
 [CV 5/5; 1239/1980] END leaf\_size=32, n\_neighbors=51;; score=0.621 total time=0.0s  
 [CV 1/5; 1240/1980] START leaf\_size=32, n\_neighbors=52...  
 [CV 4/5; 1248/1980] END leaf\_size=32, n\_neighbors=60;; score=0.602 total time=0.0s  
 [CV 5/5; 1248/1980] START leaf\_size=32, n\_neighbors=60...  
 [CV 2/5; 1253/1980] END leaf\_size=32, n\_neighbors=65;; score=0.616 total time=0.0s  
 [CV 3/5; 1253/1980] START leaf\_size=32, n\_neighbors=65...  
 [CV 2/5; 1247/1980] END leaf\_size=32, n\_neighbors=59;; score=0.609 total time=0.0s  
 [CV 3/5; 1247/1980] START leaf\_size=32, n\_neighbors=59...  
 [CV 5/5; 1245/1980] END leaf\_size=32, n\_neighbors=57;; score=0.610 total time=0.0s  
 [CV 1/5; 1246/1980] START leaf\_size=32, n\_neighbors=58...  
 [CV 4/5; 1254/1980] END leaf\_size=32, n\_neighbors=66;; score=0.574 total time=0.0s  
 [CV 5/5; 1254/1980] START leaf\_size=32, n\_neighbors=66...  
 [CV 1/5; 1243/1980] END leaf\_size=32, n\_neighbors=55;; score=0.667 total time=0.0s  
 [CV 2/5; 1243/1980] START leaf\_size=32, n\_neighbors=55...  
 [CV 4/5; 1244/1980] END leaf\_size=32, n\_neighbors=56;; score=0.591 total time=0.0s  
 [CV 5/5; 1244/1980] START leaf\_size=32, n\_neighbors=56...  
 [CV 5/5; 1251/1980] END leaf\_size=32, n\_neighbors=63;; score=0.615 total time=0.0s  
 [CV 1/5; 1252/1980] START leaf\_size=32, n\_neighbors=64...  
 [CV 2/5; 1250/1980] END leaf\_size=32, n\_neighbors=62;; score=0.603 total time=0.0s  
 [CV 3/5; 1250/1980] START leaf\_size=32, n\_neighbors=62...  
 [CV 1/5; 1240/1980] END leaf\_size=32, n\_neighbors=52;; score=0.676 total time=0.0s  
 [CV 2/5; 1256/1980] START leaf\_size=32, n\_neighbors=68...  
 [CV 3/5; 1253/1980] END leaf\_size=32, n\_neighbors=65;; score=0.566 total time=0.0s  
 [CV 4/5; 1253/1980] START leaf\_size=32, n\_neighbors=65...  
 [CV 5/5; 1248/1980] END leaf\_size=32, n\_neighbors=60;; score=0.604 total time=

0.0s  
 [CV 1/5; 1249/1980] START leaf\_size=32, n\_neighbors=61...  
 [CV 1/5; 1246/1980] END leaf\_size=32, n\_neighbors=58;; score=0.665 total time=  
 0.0s  
 [CV 2/5; 1246/1980] START leaf\_size=32, n\_neighbors=58...  
 [CV 3/5; 1247/1980] END leaf\_size=32, n\_neighbors=59;; score=0.553 total time=  
 0.0s  
 [CV 4/5; 1247/1980] START leaf\_size=32, n\_neighbors=59...  
 [CV 5/5; 1254/1980] END leaf\_size=32, n\_neighbors=66;; score=0.613 total time=  
 0.0s  
 [CV 1/5; 1255/1980] START leaf\_size=32, n\_neighbors=67...  
 [CV 5/5; 1244/1980] END leaf\_size=32, n\_neighbors=56;; score=0.613 total time=  
 0.0s  
 [CV 2/5; 1243/1980] END leaf\_size=32, n\_neighbors=55;; score=0.618 total time=  
 0.0s  
 [CV 1/5; 1252/1980] END leaf\_size=32, n\_neighbors=64;; score=0.663 total time=  
 0.0s  
 [CV 3/5; 1250/1980] END leaf\_size=32, n\_neighbors=62;; score=0.555 total time=  
 0.0s  
 [CV 4/5; 1250/1980] START leaf\_size=32,  
 n\_neighbors=62...[CV 2/5; 1252/1980] START leaf\_size=32,  
 n\_neighbors=64...  
  
 [CV 5/5; 1257/1980] START leaf\_size=32, n\_neighbors=69...  
 [CV 3/5; 1259/1980] START leaf\_size=32, n\_neighbors=71...  
 [CV 2/5; 1256/1980] END leaf\_size=32, n\_neighbors=68;; score=0.609 total time=  
 0.0s  
 [CV 3/5; 1256/1980] START leaf\_size=32, n\_neighbors=68...  
 [CV 4/5; 1253/1980] END leaf\_size=32, n\_neighbors=65;; score=0.591 total time=  
 0.0s  
 [CV 5/5; 1253/1980] START leaf\_size=32, n\_neighbors=65...  
 [CV 1/5; 1249/1980] END leaf\_size=32, n\_neighbors=61;; score=0.665 total time=  
 0.0s  
 [CV 1/5; 1255/1980] END leaf\_size=32, n\_neighbors=67;; score=0.663 total time=  
 0.0s  
 [CV 2/5; 1255/1980] START leaf\_size=32,  
 n\_neighbors=67...[CV 2/5; 1249/1980] START leaf\_size=32,  
 n\_neighbors=61...  
  
 [CV 2/5; 1246/1980] END leaf\_size=32, n\_neighbors=58;; score=0.609 total time=  
 0.0s  
 [CV 3/5; 1246/1980] START leaf\_size=32, n\_neighbors=58...  
 [CV 4/5; 1247/1980] END leaf\_size=32, n\_neighbors=59;; score=0.604 total time=  
 0.0s  
 [CV 5/5; 1247/1980] START leaf\_size=32, n\_neighbors=59...  
 [CV 2/5; 1252/1980] END leaf\_size=32, n\_neighbors=64;; score=0.609 total time=  
 0.0s  
 [CV 3/5; 1252/1980] START leaf\_size=32, n\_neighbors=64...

[CV 4/5; 1250/1980] END leaf\_size=32, n\_neighbors=62;; score=0.600 total time=0.0s  
 [CV 5/5; 1257/1980] END leaf\_size=32, n\_neighbors=69;; score=0.621 total time=0.0s  
 [CV 5/5; 1250/1980] START leaf\_size=32, n\_neighbors=62...  
 [CV 1/5; 1258/1980] START leaf\_size=32, n\_neighbors=70...  
 [CV 3/5; 1259/1980] END leaf\_size=32, n\_neighbors=71;; score=0.562 total time=0.0s  
 [CV 4/5; 1259/1980] START leaf\_size=32, n\_neighbors=71...  
 [CV 3/5; 1256/1980] END leaf\_size=32, n\_neighbors=68;; score=0.566 total time=0.0s  
 [CV 4/5; 1256/1980] START leaf\_size=32, n\_neighbors=68...  
 [CV 2/5; 1255/1980] END leaf\_size=32, n\_neighbors=67;; score=0.611 total time=0.0s  
 [CV 3/5; 1255/1980] START leaf\_size=32, n\_neighbors=67...  
 [CV 5/5; 1253/1980] END leaf\_size=32, n\_neighbors=65;; score=0.621 total time=0.0s  
 [CV 1/5; 1254/1980] START leaf\_size=32, n\_neighbors=66...  
 [CV 3/5; 1246/1980] END leaf\_size=32, n\_neighbors=58;; score=0.549 total time=0.0s  
 [CV 2/5; 1249/1980] END leaf\_size=32, n\_neighbors=61;; score=0.603 total time=0.0s  
 [CV 3/5; 1249/1980] START leaf\_size=32, n\_neighbors=61...  
 [CV 1/5; 1261/1980] START leaf\_size=32, n\_neighbors=73...  
 [CV 5/5; 1247/1980] END leaf\_size=32, n\_neighbors=59;; score=0.610 total time=0.0s  
 [CV 1/5; 1248/1980] START leaf\_size=32, n\_neighbors=60...  
 [CV 3/5; 1252/1980] END leaf\_size=32, n\_neighbors=64;; score=0.562 total time=0.0s  
 [CV 4/5; 1252/1980] START leaf\_size=32, n\_neighbors=64...  
 [CV 5/5; 1250/1980] END leaf\_size=32, n\_neighbors=62;; score=0.610 total time=0.0s  
 [CV 1/5; 1251/1980] START leaf\_size=32, n\_neighbors=63...  
 [CV 1/5; 1258/1980] END leaf\_size=32, n\_neighbors=70;; score=0.663 total time=0.0s  
 [CV 2/5; 1258/1980] START leaf\_size=32, n\_neighbors=70...  
 [CV 4/5; 1259/1980] END leaf\_size=32, n\_neighbors=71;; score=0.587 total time=0.0s  
 [CV 5/5; 1259/1980] START leaf\_size=32, n\_neighbors=71...  
 [CV 4/5; 1256/1980] END leaf\_size=32, n\_neighbors=68;; score=0.576 total time=0.0s  
 [CV 5/5; 1256/1980] START leaf\_size=32, n\_neighbors=68...  
 [CV 1/5; 1254/1980] END leaf\_size=32, n\_neighbors=66;; score=0.663 total time=0.0s  
 [CV 2/5; 1254/1980] START leaf\_size=32, n\_neighbors=66...  
 [CV 3/5; 1249/1980] END leaf\_size=32, n\_neighbors=61;; score=0.557 total time=0.0s  
 [CV 4/5; 1249/1980] START leaf\_size=32, n\_neighbors=61...

[CV 3/5; 1255/1980] END leaf\_size=32, n\_neighbors=67;; score=0.564 total time=0.0s  
 [CV 4/5; 1255/1980] START leaf\_size=32, n\_neighbors=67...  
 [CV 1/5; 1261/1980] END leaf\_size=32, n\_neighbors=73;; score=0.663 total time=0.0s  
 [CV 2/5; 1261/1980] START leaf\_size=32, n\_neighbors=73...  
 [CV 4/5; 1252/1980] END leaf\_size=32, n\_neighbors=64;; score=0.593 total time=0.0s  
 [CV 5/5; 1252/1980] START leaf\_size=32, n\_neighbors=64...  
 [CV 5/5; 1256/1980] END leaf\_size=32, n\_neighbors=68;; score=0.615 total time=0.0s  
 [CV 1/5; 1257/1980] START leaf\_size=32, n\_neighbors=69...  
 [CV 1/5; 1251/1980] END leaf\_size=32, n\_neighbors=63;; score=0.665 total time=0.0s  
 [CV 2/5; 1251/1980] START leaf\_size=32, n\_neighbors=63...  
 [CV 5/5; 1259/1980] END leaf\_size=32, n\_neighbors=71;; score=0.613 total time=0.0s  
 [CV 1/5; 1260/1980] START leaf\_size=32, n\_neighbors=72...  
 [CV 2/5; 1258/1980] END leaf\_size=32, n\_neighbors=70;; score=0.607 total time=0.0s  
 [CV 3/5; 1258/1980] START leaf\_size=32, n\_neighbors=70...  
 [CV 1/5; 1248/1980] END leaf\_size=32, n\_neighbors=60;; score=0.667 total time=0.0s  
 [CV 4/5; 1262/1980] START leaf\_size=32, n\_neighbors=74...  
 [CV 2/5; 1254/1980] END leaf\_size=32, n\_neighbors=66;; score=0.609 total time=0.0s  
 [CV 3/5; 1254/1980] START leaf\_size=32, n\_neighbors=66...  
 [CV 4/5; 1249/1980] END leaf\_size=32, n\_neighbors=61;; score=0.604 total time=0.0s  
 [CV 4/5; 1255/1980] END leaf\_size=32, n\_neighbors=67;; score=0.587 total time=0.0s  
 [CV 5/5; 1255/1980] START leaf\_size=32, n\_neighbors=67...  
 [CV 2/5; 1264/1980] START leaf\_size=32, n\_neighbors=76...  
 [CV 2/5; 1261/1980] END leaf\_size=32, n\_neighbors=73;; score=0.605 total time=0.0s  
 [CV 3/5; 1261/1980] START leaf\_size=32, n\_neighbors=73...  
 [CV 5/5; 1252/1980] END leaf\_size=32, n\_neighbors=64;; score=0.613 total time=0.0s  
 [CV 5/5; 1265/1980] START leaf\_size=32, n\_neighbors=77...  
 [CV 1/5; 1257/1980] END leaf\_size=32, n\_neighbors=69;; score=0.663 total time=0.0s  
 [CV 2/5; 1257/1980] START leaf\_size=32, n\_neighbors=69...  
 [CV 2/5; 1251/1980] END leaf\_size=32, n\_neighbors=63;; score=0.609 total time=0.0s  
 [CV 1/5; 1260/1980] END leaf\_size=32, n\_neighbors=72;; score=0.663 total time=0.0s  
 [CV 2/5; 1260/1980] START leaf\_size=32, n\_neighbors=72...  
 [CV 3/5; 1258/1980] END leaf\_size=32, n\_neighbors=70;; score=0.559 total time=



0.0s  
 [CV 4/5; 1258/1980] START leaf\_size=32, n\_neighbors=70...  
 [CV 3/5; 1267/1980] START leaf\_size=32, n\_neighbors=79...  
 [CV 3/5; 1254/1980] END leaf\_size=32, n\_neighbors=66;; score=0.566 total time=  
 0.0s  
 [CV 1/5; 1269/1980] START leaf\_size=32, n\_neighbors=81...  
 [CV 5/5; 1255/1980] END leaf\_size=32, n\_neighbors=67;; score=0.613 total time=  
 0.0s  
 [CV 1/5; 1256/1980] START leaf\_size=32, n\_neighbors=68...  
 [CV 2/5; 1264/1980] END leaf\_size=32, n\_neighbors=76;; score=0.603 total time=  
 0.0s  
 [CV 3/5; 1264/1980] START leaf\_size=32, n\_neighbors=76...  
 [CV 4/5; 1262/1980] END leaf\_size=32, n\_neighbors=74;; score=0.591 total time=  
 0.0s  
 [CV 5/5; 1262/1980] START leaf\_size=32, n\_neighbors=74...  
 [CV 3/5; 1261/1980] END leaf\_size=32, n\_neighbors=73;; score=0.566 total time=  
 0.0s  
 [CV 4/5; 1261/1980] START leaf\_size=32, n\_neighbors=73...  
 [CV 2/5; 1257/1980] END leaf\_size=32, n\_neighbors=69;; score=0.609 total time=  
 0.0s  
 [CV 3/5; 1257/1980] START leaf\_size=32, n\_neighbors=69...  
 [CV 5/5; 1265/1980] END leaf\_size=32, n\_neighbors=77;; score=0.617 total time=  
 0.0s  
 [CV 1/5; 1266/1980] START leaf\_size=32, n\_neighbors=78...  
 [CV 2/5; 1260/1980] END leaf\_size=32, n\_neighbors=72;; score=0.607 total time=  
 0.0s  
 [CV 3/5; 1260/1980] START leaf\_size=32, n\_neighbors=72...  
 [CV 4/5; 1258/1980] END leaf\_size=32, n\_neighbors=70;; score=0.589 total time=  
 0.0s  
 [CV 5/5; 1258/1980] START leaf\_size=32, n\_neighbors=70...  
 [CV 3/5; 1267/1980] END leaf\_size=32, n\_neighbors=79;; score=0.557 total time=  
 0.0s  
 [CV 4/5; 1267/1980] START leaf\_size=32, n\_neighbors=79...  
 [CV 1/5; 1269/1980] END leaf\_size=32, n\_neighbors=81;; score=0.659 total time=  
 0.0s  
 [CV 2/5; 1269/1980] START leaf\_size=32, n\_neighbors=81...  
 [CV 1/5; 1256/1980] END leaf\_size=32, n\_neighbors=68;; score=0.667 total time=  
 0.0s  
 [CV 4/5; 1270/1980] START leaf\_size=32, n\_neighbors=82...  
 [CV 3/5; 1264/1980] END leaf\_size=32, n\_neighbors=76;; score=0.557 total time=  
 0.0s  
 [CV 4/5; 1264/1980] START leaf\_size=32, n\_neighbors=76...  
 [CV 4/5; 1261/1980] END leaf\_size=32, n\_neighbors=73;; score=0.591 total time=  
 0.0s  
 [CV 5/5; 1261/1980] START leaf\_size=32, n\_neighbors=73...  
 [CV 3/5; 1257/1980] END leaf\_size=32, n\_neighbors=69;; score=0.568 total time=  
 0.0s  
 [CV 4/5; 1257/1980] START leaf\_size=32, n\_neighbors=69...

[CV 1/5; 1266/1980] END leaf\_size=32, n\_neighbors=78;; score=0.659 total time=0.0s  
 [CV 2/5; 1266/1980] START leaf\_size=32, n\_neighbors=78..  
 [CV 5/5; 1262/1980] END leaf\_size=32, n\_neighbors=74;; score=0.623 total time=0.0s  
 [CV 1/5; 1263/1980] START leaf\_size=32, n\_neighbors=75..  
 [CV 3/5; 1260/1980] END leaf\_size=32, n\_neighbors=72;; score=0.562 total time=0.0s  
 [CV 4/5; 1260/1980] START leaf\_size=32, n\_neighbors=72..  
 [CV 5/5; 1258/1980] END leaf\_size=32, n\_neighbors=70;; score=0.606 total time=0.0s  
 [CV 1/5; 1259/1980] START leaf\_size=32, n\_neighbors=71..  
 [CV 4/5; 1267/1980] END leaf\_size=32, n\_neighbors=79;; score=0.584 total time=0.0s  
 [CV 5/5; 1267/1980] START leaf\_size=32, n\_neighbors=79..  
 [CV 2/5; 1269/1980] END leaf\_size=32, n\_neighbors=81;; score=0.596 total time=0.0s  
 [CV 3/5; 1269/1980] START leaf\_size=32, n\_neighbors=81..  
 [CV 4/5; 1270/1980] END leaf\_size=32, n\_neighbors=82;; score=0.587 total time=0.0s  
 [CV 5/5; 1270/1980] START leaf\_size=32, n\_neighbors=82..  
 [CV 5/5; 1261/1980] END leaf\_size=32, n\_neighbors=73;; score=0.628 total time=0.0s  
 [CV 1/5; 1262/1980] START leaf\_size=32, n\_neighbors=74..  
 [CV 4/5; 1257/1980] END leaf\_size=32, n\_neighbors=69;; score=0.582 total time=0.0s  
 [CV 2/5; 1272/1980] START leaf\_size=32, n\_neighbors=84..  
 [CV 4/5; 1264/1980] END leaf\_size=32, n\_neighbors=76;; score=0.578 total time=0.0s  
 [CV 5/5; 1264/1980] START leaf\_size=32, n\_neighbors=76..  
 [CV 2/5; 1266/1980] END leaf\_size=32, n\_neighbors=78;; score=0.603 total time=0.0s  
 [CV 3/5; 1266/1980] START leaf\_size=32, n\_neighbors=78..  
 [CV 4/5; 1260/1980] END leaf\_size=32, n\_neighbors=72;; score=0.593 total time=0.0s  
 [CV 1/5; 1263/1980] END leaf\_size=32, n\_neighbors=75;; score=0.667 total time=0.0s  
 [CV 5/5; 1260/1980] START leaf\_size=32, n\_neighbors=72..  
 [CV 2/5; 1263/1980] START leaf\_size=32, n\_neighbors=75..  
 [CV 1/5; 1259/1980] END leaf\_size=32, n\_neighbors=71;; score=0.670 total time=0.0s  
 [CV 2/5; 1259/1980] START leaf\_size=32, n\_neighbors=71..  
 [CV 5/5; 1267/1980] END leaf\_size=32, n\_neighbors=79;; score=0.619 total time=0.0s  
 [CV 1/5; 1268/1980] START leaf\_size=32, n\_neighbors=80..  
 [CV 3/5; 1269/1980] END leaf\_size=32, n\_neighbors=81;; score=0.562 total time=0.0s  
 [CV 4/5; 1269/1980] START leaf\_size=32, n\_neighbors=81..

[CV 5/5; 1270/1980] END leaf\_size=32, n\_neighbors=82;; score=0.630 total time=0.0s  
 [CV 1/5; 1271/1980] START leaf\_size=32, n\_neighbors=83...  
 [CV 1/5; 1262/1980] END leaf\_size=32, n\_neighbors=74;; score=0.661 total time=0.0s  
 [CV 2/5; 1262/1980] START leaf\_size=32, n\_neighbors=74...  
 [CV 2/5; 1272/1980] END leaf\_size=32, n\_neighbors=84;; score=0.603 total time=0.0s  
 [CV 3/5; 1272/1980] START leaf\_size=32, n\_neighbors=84...  
 [CV 5/5; 1264/1980] END leaf\_size=32, n\_neighbors=76;; score=0.621 total time=0.0s  
 [CV 1/5; 1265/1980] START leaf\_size=32, n\_neighbors=77...  
 [CV 3/5; 1266/1980] END leaf\_size=32, n\_neighbors=78;; score=0.555 total time=0.0s  
 [CV 4/5; 1266/1980] START leaf\_size=32, n\_neighbors=78...  
 [CV 5/5; 1260/1980] END leaf\_size=32, n\_neighbors=72;; score=0.613 total time=0.0s  
 [CV 2/5; 1259/1980] END leaf\_size=32, n\_neighbors=71;; score=0.616 total time=0.0s  
 [CV 5/5; 1273/1980] START leaf\_size=32, n\_neighbors=85...  
 [CV 4/5; 1269/1980] END leaf\_size=32, n\_neighbors=81;; score=0.587 total time=0.0s  
 [CV 5/5; 1269/1980] START leaf\_size=32, n\_neighbors=81...  
 [CV 2/5; 1263/1980] END leaf\_size=32, n\_neighbors=75;; score=0.603 total time=0.0s  
 [CV 3/5; 1263/1980] START leaf\_size=32, n\_neighbors=75...  
 [CV 1/5; 1268/1980] END leaf\_size=32, n\_neighbors=80;; score=0.659 total time=0.0s  
 [CV 2/5; 1268/1980] START leaf\_size=32, n\_neighbors=80...  
 [CV 3/5; 1275/1980] START leaf\_size=32, n\_neighbors=87...  
 [CV 1/5; 1271/1980] END leaf\_size=32, n\_neighbors=83;; score=0.650 total time=0.0s  
 [CV 2/5; 1271/1980] START leaf\_size=32, n\_neighbors=83...  
 [CV 2/5; 1262/1980] END leaf\_size=32, n\_neighbors=74;; score=0.607 total time=0.0s  
 [CV 3/5; 1262/1980] START leaf\_size=32, n\_neighbors=74...  
 [CV 3/5; 1272/1980] END leaf\_size=32, n\_neighbors=84;; score=0.555 total time=0.0s  
 [CV 4/5; 1272/1980] START leaf\_size=32, n\_neighbors=84...  
 [CV 1/5; 1265/1980] END leaf\_size=32, n\_neighbors=77;; score=0.667 total time=0.0s  
 [CV 2/5; 1265/1980] START leaf\_size=32, n\_neighbors=77...  
 [CV 4/5; 1266/1980] END leaf\_size=32, n\_neighbors=78;; score=0.571 total time=0.0s  
 [CV 5/5; 1266/1980] START leaf\_size=32, n\_neighbors=78...  
 [CV 5/5; 1269/1980] END leaf\_size=32, n\_neighbors=81;; score=0.626 total time=0.0s  
 [CV 1/5; 1270/1980] START leaf\_size=32, n\_neighbors=82...

[CV 5/5; 1273/1980] END leaf\_size=32, n\_neighbors=85;; score=0.626 total time=0.0s  
 [CV 1/5; 1274/1980] START leaf\_size=32, n\_neighbors=86...  
 [CV 2/5; 1271/1980] END leaf\_size=32, n\_neighbors=83;; score=0.596 total time=0.0s  
 [CV 3/5; 1271/1980] START leaf\_size=32, n\_neighbors=83...  
 [CV 3/5; 1263/1980] END leaf\_size=32, n\_neighbors=75;; score=0.555 total time=0.0s  
 [CV 4/5; 1263/1980] START leaf\_size=32, n\_neighbors=75...  
 [CV 2/5; 1268/1980] END leaf\_size=32, n\_neighbors=80;; score=0.594 total time=0.0s  
 [CV 3/5; 1268/1980] START leaf\_size=32, n\_neighbors=80...  
 [CV 3/5; 1275/1980] END leaf\_size=32, n\_neighbors=87;; score=0.562 total time=0.0s  
 [CV 4/5; 1275/1980] START leaf\_size=32, n\_neighbors=87...  
 [CV 4/5; 1272/1980] END leaf\_size=32, n\_neighbors=84;; score=0.582 total time=0.0s  
 [CV 3/5; 1262/1980] END leaf\_size=32, n\_neighbors=74;; score=0.557 total time=0.0s  
 [CV 5/5; 1272/1980] START leaf\_size=32, n\_neighbors=84...  
 [CV 2/5; 1265/1980] END leaf\_size=32, n\_neighbors=77;; score=0.605 total time=0.0s  
 [CV 3/5; 1265/1980] START leaf\_size=32, n\_neighbors=77...  
 [CV 1/5; 1277/1980] START leaf\_size=32, n\_neighbors=89...  
 [CV 5/5; 1266/1980] END leaf\_size=32, n\_neighbors=78;; score=0.628 total time=0.0s  
 [CV 1/5; 1267/1980] START leaf\_size=32, n\_neighbors=79...  
 [CV 1/5; 1270/1980] END leaf\_size=32, n\_neighbors=82;; score=0.659 total time=0.0s  
 [CV 2/5; 1270/1980] START leaf\_size=32, n\_neighbors=82...  
 [CV 3/5; 1271/1980] END leaf\_size=32, n\_neighbors=83;; score=0.564 total time=0.0s  
 [CV 4/5; 1271/1980] START leaf\_size=32, n\_neighbors=83...  
 [CV 1/5; 1274/1980] END leaf\_size=32, n\_neighbors=86;; score=0.648 total time=0.0s  
 [CV 2/5; 1274/1980] START leaf\_size=32, n\_neighbors=86...  
 [CV 4/5; 1263/1980] END leaf\_size=32, n\_neighbors=75;; score=0.591 total time=0.0s  
 [CV 5/5; 1263/1980] START leaf\_size=32, n\_neighbors=75...  
 [CV 3/5; 1268/1980] END leaf\_size=32, n\_neighbors=80;; score=0.564 total time=0.0s  
 [CV 4/5; 1268/1980] START leaf\_size=32, n\_neighbors=80...  
 [CV 4/5; 1275/1980] END leaf\_size=32, n\_neighbors=87;; score=0.584 total time=0.0s  
 [CV 5/5; 1275/1980] START leaf\_size=32, n\_neighbors=87...  
 [CV 5/5; 1272/1980] END leaf\_size=32, n\_neighbors=84;; score=0.626 total time=0.0s  
 [CV 1/5; 1273/1980] START leaf\_size=32, n\_neighbors=85...

[CV 3/5; 1265/1980] END leaf\_size=32, n\_neighbors=77;; score=0.562 total time=0.0s  
 [CV 4/5; 1265/1980] START leaf\_size=32, n\_neighbors=77...  
 [CV 1/5; 1277/1980] END leaf\_size=32, n\_neighbors=89;; score=0.646 total time=0.0s  
 [CV 2/5; 1277/1980] START leaf\_size=32, n\_neighbors=89...  
 [CV 1/5; 1267/1980] END leaf\_size=32, n\_neighbors=79;; score=0.659 total time=0.0s  
 [CV 2/5; 1267/1980] START leaf\_size=32, n\_neighbors=79...  
 [CV 2/5; 1270/1980] END leaf\_size=32, n\_neighbors=82;; score=0.600 total time=0.0s  
 [CV 3/5; 1270/1980] START leaf\_size=32, n\_neighbors=82...  
 [CV 4/5; 1271/1980] END leaf\_size=32, n\_neighbors=83;; score=0.584 total time=0.0s  
 [CV 5/5; 1271/1980] START leaf\_size=32, n\_neighbors=83...  
 [CV 2/5; 1274/1980] END leaf\_size=32, n\_neighbors=86;; score=0.598 total time=0.0s  
 [CV 3/5; 1274/1980] START leaf\_size=32, n\_neighbors=86...  
 [CV 5/5; 1263/1980] END leaf\_size=32, n\_neighbors=75;; score=0.632 total time=0.0s  
 [CV 1/5; 1264/1980] START leaf\_size=32, n\_neighbors=76...  
 [CV 4/5; 1268/1980] END leaf\_size=32, n\_neighbors=80;; score=0.584 total time=0.0s  
 [CV 5/5; 1268/1980] START leaf\_size=32, n\_neighbors=80...  
 [CV 1/5; 1273/1980] END leaf\_size=32, n\_neighbors=85;; score=0.650 total time=0.0s  
 [CV 5/5; 1275/1980] END leaf\_size=32, n\_neighbors=87;; score=0.619 total time= 0.0s  
  
 [CV 1/5; 1276/1980] START leaf\_size=32, n\_neighbors=88...  
 [CV 2/5; 1273/1980] START leaf\_size=32, n\_neighbors=85...  
  
 [CV 4/5; 1265/1980] END leaf\_size=32, n\_neighbors=77;; score=0.580 total time=0.0s  
 [CV 4/5; 1278/1980] START leaf\_size=32, n\_neighbors=90...  
 [CV 2/5; 1267/1980] END leaf\_size=32, n\_neighbors=79;; score=0.598 total time=0.0s  
 [CV 2/5; 1277/1980] END leaf\_size=32, n\_neighbors=89;; score=0.600 total time=0.0s  
 [CV 3/5; 1277/1980] START leaf\_size=32, n\_neighbors=89...  
 [CV 2/5; 1280/1980] START leaf\_size=32, n\_neighbors=92...  
 [CV 5/5; 1271/1980] END leaf\_size=32, n\_neighbors=83;; score=0.619 total time=0.0s  
 [CV 3/5; 1270/1980] END leaf\_size=32, n\_neighbors=82;; score=0.566 total time=0.0s  
 [CV 1/5; 1272/1980] START leaf\_size=32, n\_neighbors=84...  
 [CV 5/5; 1281/1980] START leaf\_size=32, n\_neighbors=93...  
 [CV 3/5; 1274/1980] END leaf\_size=32, n\_neighbors=86;; score=0.559 total time=

0.0s  
[CV 4/5; 1274/1980] START leaf\_size=32, n\_neighbors=86...  
[CV 1/5; 1264/1980] END leaf\_size=32, n\_neighbors=76;; score=0.667 total time=0.0s  
[CV 5/5; 1268/1980] END leaf\_size=32, n\_neighbors=80;; score=0.628 total time=0.0s  
[CV 3/5; 1283/1980] START leaf\_size=32, n\_neighbors=95...  
[CV 2/5; 1273/1980] END leaf\_size=32, n\_neighbors=85;; score=0.600 total time=0.0s  
[CV 3/5; 1273/1980] START leaf\_size=32, n\_neighbors=85...  
[CV 1/5; 1285/1980] START leaf\_size=32, n\_neighbors=97...  
[CV 1/5; 1276/1980] END leaf\_size=32, n\_neighbors=88;; score=0.652 total time=0.0s  
[CV 2/5; 1276/1980] START leaf\_size=32, n\_neighbors=88...  
[CV 4/5; 1278/1980] END leaf\_size=32, n\_neighbors=90;; score=0.580 total time=0.0s  
[CV 5/5; 1278/1980] START leaf\_size=32, n\_neighbors=90...  
[CV 1/5; 1272/1980] END leaf\_size=32, n\_neighbors=84;; score=0.654 total time=0.0s  
[CV 5/5; 1281/1980] END leaf\_size=32, n\_neighbors=93;; score=0.617 total time=0.0s  
[CV 1/5; 1282/1980] START leaf\_size=32, n\_neighbors=94...  
[CV 4/5; 1286/1980] START leaf\_size=32, n\_neighbors=98...  
[CV 2/5; 1280/1980] END leaf\_size=32, n\_neighbors=92;; score=0.598 total time=0.0s  
[CV 3/5; 1280/1980] START leaf\_size=32, n\_neighbors=92...  
[CV 3/5; 1277/1980] END leaf\_size=32, n\_neighbors=89;; score=0.564 total time=0.0s  
[CV 4/5; 1277/1980] START leaf\_size=32, n\_neighbors=89...  
[CV 4/5; 1274/1980] END leaf\_size=32, n\_neighbors=86;; score=0.580 total time=0.0s  
[CV 5/5; 1274/1980] START leaf\_size=32, n\_neighbors=86...  
[CV 3/5; 1273/1980] END leaf\_size=32, n\_neighbors=85;; score=0.557 total time=0.0s  
[CV 4/5; 1273/1980] START leaf\_size=32, n\_neighbors=85...  
[CV 3/5; 1283/1980] END leaf\_size=32, n\_neighbors=95;; score=0.566 total time=0.0s  
[CV 4/5; 1283/1980] START leaf\_size=32, n\_neighbors=95...  
[CV 1/5; 1285/1980] END leaf\_size=32, n\_neighbors=97;; score=0.641 total time=0.0s  
[CV 2/5; 1285/1980] START leaf\_size=32, n\_neighbors=97...  
[CV 5/5; 1278/1980] END leaf\_size=32, n\_neighbors=90;; score=0.617 total time=0.0s  
[CV 2/5; 1276/1980] END leaf\_size=32, n\_neighbors=88;; score=0.600 total time=0.0s  
[CV 1/5; 1279/1980] START leaf\_size=32, n\_neighbors=91...  
[CV 3/5; 1276/1980] START leaf\_size=32, n\_neighbors=88...  
[CV 1/5; 1282/1980] END leaf\_size=32, n\_neighbors=94;; score=0.644 total time=

0.0s  
 [CV 2/5; 1282/1980] START leaf\_size=32, n\_neighbors=94...  
 [CV 4/5; 1286/1980] END leaf\_size=32, n\_neighbors=98;; score=0.584 total time=  
 0.0s  
 [CV 5/5; 1286/1980] START leaf\_size=32, n\_neighbors=98...  
 [CV 3/5; 1280/1980] END leaf\_size=32, n\_neighbors=92;; score=0.564 total time=  
 0.0s  
 [CV 4/5; 1280/1980] START leaf\_size=32, n\_neighbors=92...  
 [CV 4/5; 1277/1980] END leaf\_size=32, n\_neighbors=89;; score=0.591 total time=  
 0.0s  
 [CV 5/5; 1277/1980] START leaf\_size=32, n\_neighbors=89...  
 [CV 5/5; 1274/1980] END leaf\_size=32, n\_neighbors=86;; score=0.623 total time=  
 0.0s  
 [CV 1/5; 1275/1980] START leaf\_size=32, n\_neighbors=87...  
 [CV 4/5; 1273/1980] END leaf\_size=32, n\_neighbors=85;; score=0.576 total time=  
 0.0s  
 [CV 2/5; 1288/1980] START leaf\_size=33, n\_neighbors=1...  
 [CV 4/5; 1283/1980] END leaf\_size=32, n\_neighbors=95;; score=0.584 total time=  
 0.0s  
 [CV 5/5; 1283/1980] START leaf\_size=32, n\_neighbors=95...  
 [CV 1/5; 1279/1980] END leaf\_size=32, n\_neighbors=91;; score=0.648 total time=  
 0.0s  
 [CV 2/5; 1279/1980] START leaf\_size=32, n\_neighbors=91...  
 [CV 3/5; 1276/1980] END leaf\_size=32, n\_neighbors=88;; score=0.562 total time=  
 0.0s  
 [CV 4/5; 1276/1980] START leaf\_size=32, n\_neighbors=88...  
 [CV 2/5; 1285/1980] END leaf\_size=32, n\_neighbors=97;; score=0.594 total time=  
 0.0s  
 [CV 3/5; 1285/1980] START leaf\_size=32, n\_neighbors=97...  
 [CV 5/5; 1286/1980] END leaf\_size=32, n\_neighbors=98;; score=0.606 total time=  
 0.0s  
 [CV 1/5; 1287/1980] START leaf\_size=32, n\_neighbors=99...  
 [CV 4/5; 1280/1980] END leaf\_size=32, n\_neighbors=92;; score=0.582 total time=  
 0.0s  
 [CV 2/5; 1282/1980] END leaf\_size=32, n\_neighbors=94;; score=0.600 total time=  
 0.0s  
 [CV 5/5; 1280/1980] START leaf\_size=32, n\_neighbors=92...  
 [CV 3/5; 1282/1980] START leaf\_size=32, n\_neighbors=94...  
 [CV 2/5; 1288/1980] END leaf\_size=33, n\_neighbors=1;; score=0.568 total time=  
 0.0s  
 [CV 3/5; 1288/1980] START leaf\_size=33, n\_neighbors=1...  
 [CV 1/5; 1275/1980] END leaf\_size=32, n\_neighbors=87;; score=0.650 total time=  
 0.0s  
 [CV 2/5; 1275/1980] START leaf\_size=32, n\_neighbors=87...  
 [CV 5/5; 1277/1980] END leaf\_size=32, n\_neighbors=89;; score=0.621 total time=  
 0.0s  
 [CV 1/5; 1278/1980] START leaf\_size=32, n\_neighbors=90...  
 [CV 5/5; 1283/1980] END leaf\_size=32, n\_neighbors=95;; score=0.608 total time=

0.0s  
 [CV 1/5; 1284/1980] START leaf\_size=32, n\_neighbors=96...  
 [CV 2/5; 1279/1980] END leaf\_size=32, n\_neighbors=91;; score=0.605 total time=  
 0.0s  
 [CV 3/5; 1279/1980] START leaf\_size=32, n\_neighbors=91...  
 [CV 3/5; 1288/1980] END leaf\_size=33, n\_neighbors=1;; score=0.490 total time=  
 0.0s  
 [CV 4/5; 1288/1980] START leaf\_size=33, n\_neighbors=1...  
 [CV 4/5; 1276/1980] END leaf\_size=32, n\_neighbors=88;; score=0.578 total time=  
 0.0s  
 [CV 5/5; 1276/1980] START leaf\_size=32, n\_neighbors=88...  
 [CV 3/5; 1285/1980] END leaf\_size=32, n\_neighbors=97;; score=0.564 total time=  
 0.0s  
 [CV 4/5; 1285/1980] START leaf\_size=32, n\_neighbors=97...  
 [CV 1/5; 1287/1980] END leaf\_size=32, n\_neighbors=99;; score=0.641 total time=  
 0.0s  
 [CV 2/5; 1287/1980] START leaf\_size=32, n\_neighbors=99...  
 [CV 5/5; 1280/1980] END leaf\_size=32, n\_neighbors=92;; score=0.621 total time=  
 0.0s  
 [CV 1/5; 1281/1980] START leaf\_size=32, n\_neighbors=93...  
 [CV 3/5; 1282/1980] END leaf\_size=32, n\_neighbors=94;; score=0.562 total time=  
 0.0s  
 [CV 4/5; 1282/1980] START leaf\_size=32, n\_neighbors=94...  
 [CV 2/5; 1275/1980] END leaf\_size=32, n\_neighbors=87;; score=0.603 total time=  
 0.0s  
 [CV 1/5; 1278/1980] END leaf\_size=32, n\_neighbors=90;; score=0.650 total time=  
 0.0s  
 [CV 2/5; 1278/1980] START leaf\_size=32, n\_neighbors=90...  
 [CV 4/5; 1288/1980] END leaf\_size=33, n\_neighbors=1;; score=0.539 total time=  
 0.0s  
 [CV 5/5; 1288/1980] START leaf\_size=33, n\_neighbors=1...  
 [CV 5/5; 1289/1980] START leaf\_size=33, n\_neighbors=2...  
 [CV 3/5; 1279/1980] END leaf\_size=32, n\_neighbors=91;; score=0.564 total time=  
 0.0s  
 [CV 4/5; 1279/1980] START leaf\_size=32, n\_neighbors=91...  
 [CV 5/5; 1276/1980] END leaf\_size=32, n\_neighbors=88;; score=0.617 total time=  
 0.0s  
 [CV 1/5; 1284/1980] END leaf\_size=32, n\_neighbors=96;; score=0.637 total time=  
 0.0s  
 [CV 2/5; 1284/1980] START leaf\_size=32, n\_neighbors=96...  
 [CV 3/5; 1291/1980] START leaf\_size=33, n\_neighbors=4...  
 [CV 5/5; 1288/1980] END leaf\_size=33, n\_neighbors=1;; score=0.567 total time=  
 0.0s  
 [CV 1/5; 1289/1980] START leaf\_size=33, n\_neighbors=2...  
 [CV 2/5; 1287/1980] END leaf\_size=32, n\_neighbors=99;; score=0.598 total time=  
 0.0s  
 [CV 3/5; 1287/1980] START leaf\_size=32, n\_neighbors=99...  
 [CV 5/5; 1289/1980] END leaf\_size=33, n\_neighbors=2;; score=0.574 total time=



```

0.0s
[CV 1/5; 1290/1980] START leaf_size=33, n_neighbors=3...
[CV 4/5; 1285/1980] END leaf_size=32, n_neighbors=97;; score=0.580 total time=
0.0s
[CV 5/5; 1285/1980] START leaf_size=32, n_neighbors=97...
[CV 4/5; 1282/1980] END leaf_size=32, n_neighbors=94;; score=0.582 total time=
0.0s
[CV 5/5; 1282/1980] START leaf_size=32, n_neighbors=94...
[CV 1/5; 1281/1980] END leaf_size=32, n_neighbors=93;; score=0.646 total time=
0.0s
[CV 2/5; 1281/1980] START leaf_size=32, n_neighbors=93...
[CV 2/5; 1278/1980] END leaf_size=32, n_neighbors=90;; score=0.600 total time=
0.0s
[CV 3/5; 1278/1980] START leaf_size=32, n_neighbors=90...
[CV 3/5; 1291/1980] END leaf_size=33, n_neighbors=4;; score=0.544 total time=
0.0s
[CV 4/5; 1291/1980] START leaf_size=33, n_neighbors=4...
[CV 1/5; 1289/1980] END leaf_size=33, n_neighbors=2;; score=0.566 total time=
0.0s
[CV 2/5; 1289/1980] START leaf_size=33, n_neighbors=2...
[CV 1/5; 1290/1980] END leaf_size=33, n_neighbors=3;; score=0.557 total time=
0.0s
[CV 2/5; 1290/1980] START leaf_size=33, n_neighbors=3...
[CV 4/5; 1279/1980] END leaf_size=32, n_neighbors=91;; score=0.591 total time=
0.0s
[CV 5/5; 1279/1980] START leaf_size=32, n_neighbors=91...
[CV 3/5; 1287/1980] END leaf_size=32, n_neighbors=99;; score=0.566 total time=
0.0s
[CV 4/5; 1287/1980] START leaf_size=32, n_neighbors=99...
[CV 2/5; 1284/1980] END leaf_size=32, n_neighbors=96;; score=0.598 total time=
0.0s
[CV 3/5; 1284/1980] START leaf_size=32,
n_neighbors=96...[CV 5/5; 1285/1980] END leaf_size=32,
n_neighbors=97;; score=0.602 total time= 0.0s

[CV 1/5; 1286/1980] START leaf_size=32, n_neighbors=98...
[CV 4/5; 1291/1980] END leaf_size=33, n_neighbors=4;; score=0.580 total time=
0.0s
[CV 5/5; 1291/1980] START leaf_size=33, n_neighbors=4...
[CV 2/5; 1289/1980] END leaf_size=33, n_neighbors=2;; score=0.579 total time=
0.0s[CV 2/5; 1290/1980] END leaf_size=33, n_neighbors=3;; score=0.579 total
time= 0.0s

[CV 3/5; 1290/1980] START leaf_size=33,
n_neighbors=3...[CV 3/5; 1289/1980] START leaf_size=33,
n_neighbors=2...

[CV 5/5; 1282/1980] END leaf_size=32, n_neighbors=94;; score=0.608 total time=

```

```

0.0s
[CV 1/5; 1283/1980] START leaf_size=32, n_neighbors=95...
[CV 2/5; 1281/1980] END leaf_size=32, n_neighbors=93;; score=0.603 total time=
0.0s[CV 3/5; 1278/1980] END leaf_size=32, n_neighbors=90;; score=0.564 total
time= 0.0s

[CV 3/5; 1281/1980] START leaf_size=32, n_neighbors=93...
[CV 1/5; 1293/1980] START leaf_size=33, n_neighbors=6...
[CV 5/5; 1291/1980] END leaf_size=33, n_neighbors=4;; score=0.593 total time=
0.0s
[CV 1/5; 1292/1980] START leaf_size=33, n_neighbors=5...
[CV 3/5; 1289/1980] END leaf_size=33, n_neighbors=2;; score=0.512 total time=
0.0s
[CV 4/5; 1289/1980] START leaf_size=33, n_neighbors=2...
[CV 3/5; 1290/1980] END leaf_size=33, n_neighbors=3;; score=0.484 total time=
0.0s
[CV 4/5; 1290/1980] START leaf_size=33, n_neighbors=3...
[CV 4/5; 1287/1980] END leaf_size=32, n_neighbors=99;; score=0.589 total time=
0.0s
[CV 5/5; 1287/1980] START leaf_size=32, n_neighbors=99...
[CV 5/5; 1279/1980] END leaf_size=32, n_neighbors=91;; score=0.623 total time=
0.0s
[CV 1/5; 1280/1980] START leaf_size=32, n_neighbors=92...
[CV 1/5; 1286/1980] END leaf_size=32, n_neighbors=98;; score=0.635 total time=
0.0s
[CV 2/5; 1286/1980] START leaf_size=32, n_neighbors=98...
[CV 1/5; 1292/1980] END leaf_size=33, n_neighbors=5;; score=0.546 total time=
0.0s
[CV 2/5; 1292/1980] START leaf_size=33, n_neighbors=5...
[CV 1/5; 1293/1980] END leaf_size=33, n_neighbors=6;; score=0.570 total time=
0.0s
[CV 2/5; 1293/1980] START leaf_size=33, n_neighbors=6...
[CV 3/5; 1284/1980] END leaf_size=32, n_neighbors=96;; score=0.564 total time=
0.0s
[CV 4/5; 1284/1980] START leaf_size=32, n_neighbors=96...
[CV 3/5; 1281/1980] END leaf_size=32, n_neighbors=93;; score=0.564 total time=
0.0s
[CV 4/5; 1281/1980] START leaf_size=32, n_neighbors=93...
[CV 1/5; 1283/1980] END leaf_size=32, n_neighbors=95;; score=0.644 total time=
0.0s
[CV 2/5; 1283/1980] START leaf_size=32, n_neighbors=95...
[CV 4/5; 1290/1980] END leaf_size=33, n_neighbors=3;; score=0.584 total time=
0.0s
[CV 4/5; 1289/1980] END leaf_size=33, n_neighbors=2;; score=0.571 total time=
0.0s
[CV 5/5; 1290/1980] START leaf_size=33, n_neighbors=3...
[CV 4/5; 1294/1980] START leaf_size=33, n_neighbors=7...
[CV 5/5; 1287/1980] END leaf_size=32, n_neighbors=99;; score=0.610 total time=

```

0.0s  
[CV 1/5; 1288/1980] START leaf\_size=33, n\_neighbors=1...  
[CV 5/5; 1290/1980] END leaf\_size=33, n\_neighbors=3;; score=0.593 total time=  
0.0s  
[CV 1/5; 1291/1980] START leaf\_size=33, n\_neighbors=4...  
[CV 2/5; 1293/1980] END leaf\_size=33, n\_neighbors=6;; score=0.546 total time=  
0.0s  
[CV 3/5; 1293/1980] START leaf\_size=33, n\_neighbors=6...  
[CV 2/5; 1292/1980] END leaf\_size=33, n\_neighbors=5;; score=0.562 total time=  
0.0s  
[CV 3/5; 1292/1980] START leaf\_size=33, n\_neighbors=5...  
[CV 1/5; 1280/1980] END leaf\_size=32, n\_neighbors=92;; score=0.646 total time=  
0.0s  
[CV 4/5; 1294/1980] END leaf\_size=33, n\_neighbors=7;; score=0.584 total time=  
0.0s  
[CV 5/5; 1294/1980] START leaf\_size=33, n\_neighbors=7...  
[CV 2/5; 1296/1980] START leaf\_size=33, n\_neighbors=9...  
[CV 2/5; 1286/1980] END leaf\_size=32, n\_neighbors=98;; score=0.596 total time=  
0.0s  
[CV 3/5; 1286/1980] START leaf\_size=32, n\_neighbors=98...  
[CV 1/5; 1288/1980] END leaf\_size=33, n\_neighbors=1;; score=0.516 total time=  
0.0s  
[CV 5/5; 1297/1980] START leaf\_size=33, n\_neighbors=10...  
[CV 4/5; 1281/1980] END leaf\_size=32, n\_neighbors=93;; score=0.587 total time=  
0.0s  
[CV 2/5; 1283/1980] END leaf\_size=32, n\_neighbors=95;; score=0.603 total time=  
0.0s  
[CV 3/5; 1299/1980] START leaf\_size=33, n\_neighbors=12...  
[CV 1/5; 1301/1980] START leaf\_size=33, n\_neighbors=14...  
[CV 3/5; 1292/1980] END leaf\_size=33, n\_neighbors=5;; score=0.536 total time=  
0.0s  
[CV 4/5; 1292/1980] START leaf\_size=33, n\_neighbors=5...  
[CV 1/5; 1291/1980] END leaf\_size=33, n\_neighbors=4;; score=0.562 total time=  
0.0s  
[CV 2/5; 1291/1980] START leaf\_size=33, n\_neighbors=4...  
[CV 3/5; 1293/1980] END leaf\_size=33, n\_neighbors=6;; score=0.555 total time=  
0.0s  
[CV 4/5; 1293/1980] START leaf\_size=33, n\_neighbors=6...  
[CV 4/5; 1284/1980] END leaf\_size=32, n\_neighbors=96;; score=0.582 total time=  
0.0s  
[CV 5/5; 1284/1980] START leaf\_size=32, n\_neighbors=96...  
[CV 5/5; 1294/1980] END leaf\_size=33, n\_neighbors=7;; score=0.613 total time=  
0.0s  
[CV 1/5; 1295/1980] START leaf\_size=33, n\_neighbors=8...  
[CV 5/5; 1297/1980] END leaf\_size=33, n\_neighbors=10;; score=0.615 total time=  
0.0s  
[CV 1/5; 1298/1980] START leaf\_size=33,  
n\_neighbors=11...[CV 2/5; 1296/1980] END leaf\_size=33,

```

n_neighbors=9;; score=0.570 total time= 0.0s

[CV 3/5; 1296/1980] START leaf_size=33, n_neighbors=9...
[CV 3/5; 1299/1980] END leaf_size=33, n_neighbors=12;; score=0.546 total time=
0.0s
[CV 4/5; 1299/1980] START leaf_size=33, n_neighbors=12...
[CV 1/5; 1301/1980] END leaf_size=33, n_neighbors=14;; score=0.644 total time=
0.0s
[CV 2/5; 1301/1980] START leaf_size=33, n_neighbors=14...
[CV 3/5; 1286/1980] END leaf_size=32, n_neighbors=98;; score=0.562 total time=
0.0s
[CV 4/5; 1293/1980] END leaf_size=33, n_neighbors=6;; score=0.578 total time=
0.0s
[CV 2/5; 1291/1980] END leaf_size=33, n_neighbors=4;; score=0.581 total time=
0.0s
[CV 5/5; 1293/1980] START leaf_size=33, n_neighbors=6...
[CV 4/5; 1292/1980] END leaf_size=33, n_neighbors=5;; score=0.589 total time=
0.0s
[CV 5/5; 1292/1980] START leaf_size=33,
n_neighbors=5...[CV 4/5; 1302/1980] START leaf_size=33,
n_neighbors=15...

[CV 2/5; 1304/1980] START leaf_size=33, n_neighbors=17...
[CV 1/5; 1295/1980] END leaf_size=33, n_neighbors=8;; score=0.568 total time=
0.0s
[CV 2/5; 1295/1980] START leaf_size=33, n_neighbors=8...
[CV 3/5; 1296/1980] END leaf_size=33, n_neighbors=9;; score=0.559 total time=
0.0s[CV 1/5; 1298/1980] END leaf_size=33, n_neighbors=11;; score=0.624 total
time= 0.0s

[CV 2/5; 1298/1980] START leaf_size=33,
n_neighbors=11...[CV 4/5; 1296/1980] START leaf_size=33,
n_neighbors=9...

[CV 4/5; 1299/1980] END leaf_size=33, n_neighbors=12;; score=0.576 total time=
0.0s
[CV 5/5; 1299/1980] START leaf_size=33, n_neighbors=12...
[CV 5/5; 1293/1980] END leaf_size=33, n_neighbors=6;; score=0.582 total time=
0.0s
[CV 1/5; 1294/1980] START leaf_size=33, n_neighbors=7...
[CV 5/5; 1292/1980] END leaf_size=33, n_neighbors=5;; score=0.591 total time=
0.0s[CV 2/5; 1301/1980] END leaf_size=33, n_neighbors=14;; score=0.572 total
time= 0.0s

[CV 3/5; 1301/1980] START leaf_size=33, n_neighbors=14...
[CV 5/5; 1305/1980] START leaf_size=33, n_neighbors=18...
[CV 4/5; 1302/1980] END leaf_size=33, n_neighbors=15;; score=0.584 total time=
0.0s

```

[CV 5/5; 1302/1980] START leaf\_size=33, n\_neighbors=15...  
 [CV 2/5; 1304/1980] END leaf\_size=33, n\_neighbors=17;; score=0.568 total time=0.0s  
 [CV 3/5; 1304/1980] START leaf\_size=33, n\_neighbors=17...  
 [CV 2/5; 1298/1980] END leaf\_size=33, n\_neighbors=11;; score=0.579 total time=0.0s  
 [CV 2/5; 1295/1980] END leaf\_size=33, n\_neighbors=8;; score=0.551 total time= 0.0s  
 [CV 5/5; 1284/1980] END leaf\_size=32, n\_neighbors=96;; score=0.604 total time=0.0s  
  
 [CV 3/5; 1295/1980] START leaf\_size=33, n\_neighbors=8...  
 [CV 3/5; 1298/1980] START leaf\_size=33, n\_neighbors=11...  
 [CV 4/5; 1296/1980] END leaf\_size=33, n\_neighbors=9;; score=0.589 total time=0.0s  
 [CV 5/5; 1296/1980] START leaf\_size=33, n\_neighbors=9...  
 [CV 3/5; 1307/1980] START leaf\_size=33, n\_neighbors=20...  
 [CV 5/5; 1299/1980] END leaf\_size=33, n\_neighbors=12;; score=0.613 total time=0.0s  
 [CV 1/5; 1300/1980] START leaf\_size=33, n\_neighbors=13...  
 [CV 1/5; 1294/1980] END leaf\_size=33, n\_neighbors=7;; score=0.568 total time=0.0s  
 [CV 2/5; 1294/1980] START leaf\_size=33, n\_neighbors=7...  
 [CV 3/5; 1301/1980] END leaf\_size=33, n\_neighbors=14;; score=0.544 total time=0.0s  
 [CV 4/5; 1301/1980] START leaf\_size=33, n\_neighbors=14...  
 [CV 3/5; 1298/1980] END leaf\_size=33, n\_neighbors=11;; score=0.551 total time=0.0s  
 [CV 4/5; 1298/1980] START leaf\_size=33, n\_neighbors=11...  
 [CV 5/5; 1296/1980] END leaf\_size=33, n\_neighbors=9;; score=0.613 total time=0.0s  
 [CV 1/5; 1297/1980] START leaf\_size=33, n\_neighbors=10...  
 [CV 5/5; 1302/1980] END leaf\_size=33, n\_neighbors=15;; score=0.615 total time=0.0s  
 [CV 1/5; 1303/1980] START leaf\_size=33, n\_neighbors=16...  
 [CV 3/5; 1295/1980] END leaf\_size=33, n\_neighbors=8;; score=0.551 total time=0.0s  
 [CV 4/5; 1295/1980] START leaf\_size=33, n\_neighbors=8...  
 [CV 5/5; 1305/1980] END leaf\_size=33, n\_neighbors=18;; score=0.617 total time=0.0s  
 [CV 1/5; 1306/1980] START leaf\_size=33, n\_neighbors=19...  
 [CV 3/5; 1304/1980] END leaf\_size=33, n\_neighbors=17;; score=0.564 total time=0.0s  
 [CV 4/5; 1304/1980] START leaf\_size=33, n\_neighbors=17...  
 [CV 1/5; 1300/1980] END leaf\_size=33, n\_neighbors=13;; score=0.633 total time=0.0s  
 [CV 2/5; 1300/1980] START leaf\_size=33, n\_neighbors=13...  
 [CV 3/5; 1307/1980] END leaf\_size=33, n\_neighbors=20;; score=0.553 total time=0.0s

[CV 4/5; 1307/1980] START leaf\_size=33,  
 n\_neighbors=20...[CV 2/5; 1294/1980] END leaf\_size=33,  
 n\_neighbors=7;; score=0.559 total time= 0.0s

[CV 3/5; 1294/1980] START leaf\_size=33, n\_neighbors=7...  
 [CV 4/5; 1298/1980] END leaf\_size=33, n\_neighbors=11;; score=0.589 total time=  
 0.0s  
 [CV 5/5; 1298/1980] START leaf\_size=33, n\_neighbors=11...  
 [CV 4/5; 1301/1980] END leaf\_size=33, n\_neighbors=14;; score=0.584 total time=  
 0.0s  
 [CV 5/5; 1301/1980] START leaf\_size=33, n\_neighbors=14...  
 [CV 1/5; 1297/1980] END leaf\_size=33, n\_neighbors=10;; score=0.611 total time=  
 0.0s  
 [CV 2/5; 1297/1980] START leaf\_size=33, n\_neighbors=10...  
 [CV 4/5; 1295/1980] END leaf\_size=33, n\_neighbors=8;; score=0.617 total time=  
 0.0s  
 [CV 5/5; 1295/1980] START leaf\_size=33, n\_neighbors=8...  
 [CV 1/5; 1303/1980] END leaf\_size=33, n\_neighbors=16;; score=0.637 total time=  
 0.0s  
 [CV 2/5; 1303/1980] START leaf\_size=33, n\_neighbors=16...  
 [CV 4/5; 1304/1980] END leaf\_size=33, n\_neighbors=17;; score=0.580 total time=  
 0.0s  
 [CV 5/5; 1304/1980] START leaf\_size=33, n\_neighbors=17...  
 [CV 1/5; 1306/1980] END leaf\_size=33, n\_neighbors=19;; score=0.637 total time=  
 0.0s  
 [CV 2/5; 1306/1980] START leaf\_size=33, n\_neighbors=19...  
 [CV 2/5; 1300/1980] END leaf\_size=33, n\_neighbors=13;; score=0.570 total time=  
 0.0s  
 [CV 3/5; 1300/1980] START leaf\_size=33, n\_neighbors=13...  
 [CV 3/5; 1294/1980] END leaf\_size=33, n\_neighbors=7;; score=0.551 total time=  
 0.0s  
 [CV 5/5; 1298/1980] END leaf\_size=33, n\_neighbors=11;; score=0.606 total time=  
 0.0s  
 [CV 1/5; 1299/1980] START leaf\_size=33, n\_neighbors=12...  
 [CV 2/5; 1297/1980] END leaf\_size=33, n\_neighbors=10;; score=0.568 total time=  
 0.0s  
 [CV 3/5; 1297/1980] START leaf\_size=33, n\_neighbors=10...  
 [CV 5/5; 1301/1980] END leaf\_size=33, n\_neighbors=14;; score=0.606 total time=  
 0.0s  
 [CV 1/5; 1302/1980] START leaf\_size=33, n\_neighbors=15...  
 [CV 4/5; 1307/1980] END leaf\_size=33, n\_neighbors=20;; score=0.600 total time=  
 0.0s  
 [CV 5/5; 1307/1980] START leaf\_size=33, n\_neighbors=20...  
 [CV 1/5; 1309/1980] START leaf\_size=33, n\_neighbors=22...  
 [CV 5/5; 1295/1980] END leaf\_size=33, n\_neighbors=8;; score=0.608 total time=  
 0.0s  
 [CV 1/5; 1296/1980] START leaf\_size=33, n\_neighbors=9...  
 [CV 5/5; 1304/1980] END leaf\_size=33, n\_neighbors=17;; score=0.610 total time=

0.0s[CV 2/5; 1303/1980] END leaf\_size=33, n\_neighbors=16;; score=0.575 total time= 0.0s  
 [CV 3/5; 1303/1980] START leaf\_size=33, n\_neighbors=16...  
  
 [CV 1/5; 1305/1980] START leaf\_size=33, n\_neighbors=18...  
 [CV 2/5; 1306/1980] END leaf\_size=33, n\_neighbors=19;; score=0.583 total time= 0.0s  
 [CV 3/5; 1306/1980] START leaf\_size=33, n\_neighbors=19...  
 [CV 3/5; 1300/1980] END leaf\_size=33, n\_neighbors=13;; score=0.553 total time= 0.0s  
 [CV 4/5; 1300/1980] START leaf\_size=33, n\_neighbors=13...  
 [CV 1/5; 1299/1980] END leaf\_size=33, n\_neighbors=12;; score=0.648 total time= 0.0s  
 [CV 2/5; 1299/1980] START leaf\_size=33, n\_neighbors=12...  
 [CV 3/5; 1297/1980] END leaf\_size=33, n\_neighbors=10;; score=0.549 total time= 0.0s  
 [CV 4/5; 1297/1980] START leaf\_size=33, n\_neighbors=10...  
 [CV 1/5; 1302/1980] END leaf\_size=33, n\_neighbors=15;; score=0.637 total time= 0.0s  
 [CV 2/5; 1302/1980] START leaf\_size=33, n\_neighbors=15...  
 [CV 1/5; 1296/1980] END leaf\_size=33, n\_neighbors=9;; score=0.592 total time= 0.0s  
 [CV 1/5; 1309/1980] END leaf\_size=33, n\_neighbors=22;; score=0.622 total time= 0.0s  
 [CV 2/5; 1309/1980] START leaf\_size=33, n\_neighbors=22...  
 [CV 3/5; 1303/1980] END leaf\_size=33, n\_neighbors=16;; score=0.557 total time= 0.0s  
 [CV 4/5; 1310/1980] START leaf\_size=33, n\_neighbors=23...  
 [CV 4/5; 1303/1980] START leaf\_size=33, n\_neighbors=16...  
 [CV 5/5; 1307/1980] END leaf\_size=33, n\_neighbors=20;; score=0.632 total time= 0.0s  
 [CV 1/5; 1308/1980] START leaf\_size=33, n\_neighbors=21...  
 [CV 3/5; 1306/1980] END leaf\_size=33, n\_neighbors=19;; score=0.551 total time= 0.0s  
 [CV 4/5; 1306/1980] START leaf\_size=33, n\_neighbors=19...  
 [CV 1/5; 1305/1980] END leaf\_size=33, n\_neighbors=18;; score=0.635 total time= 0.0s  
 [CV 2/5; 1305/1980] START leaf\_size=33, n\_neighbors=18...  
 [CV 4/5; 1300/1980] END leaf\_size=33, n\_neighbors=13;; score=0.574 total time= 0.0s  
 [CV 5/5; 1300/1980] START leaf\_size=33, n\_neighbors=13...  
 [CV 2/5; 1299/1980] END leaf\_size=33, n\_neighbors=12;; score=0.581 total time= 0.0s  
 [CV 4/5; 1297/1980] END leaf\_size=33, n\_neighbors=10;; score=0.597 total time= 0.0s  
 [CV 2/5; 1312/1980] START leaf\_size=33, n\_neighbors=25...  
 [CV 5/5; 1313/1980] START leaf\_size=33, n\_neighbors=26...  
 [CV 2/5; 1302/1980] END leaf\_size=33, n\_neighbors=15;; score=0.570 total time=

0.0s  
 [CV 3/5; 1302/1980] START leaf\_size=33, n\_neighbors=15...  
 [CV 4/5; 1303/1980] END leaf\_size=33, n\_neighbors=16;;, score=0.584 total time=  
 0.0s  
 [CV 5/5; 1303/1980] START leaf\_size=33, n\_neighbors=16...  
 [CV 4/5; 1310/1980] END leaf\_size=33, n\_neighbors=23;;, score=0.600 total time=  
 0.0s  
 [CV 5/5; 1310/1980] START leaf\_size=33, n\_neighbors=23...  
 [CV 2/5; 1309/1980] END leaf\_size=33, n\_neighbors=22;;, score=0.587 total time=  
 0.0s  
 [CV 3/5; 1309/1980] START leaf\_size=33, n\_neighbors=22...  
 [CV 5/5; 1300/1980] END leaf\_size=33, n\_neighbors=13;;, score=0.591 total time=  
 0.0s  
 [CV 4/5; 1306/1980] END leaf\_size=33, n\_neighbors=19;;, score=0.589 total time=  
 0.0s  
 [CV 5/5; 1306/1980] START leaf\_size=33, n\_neighbors=19...  
 [CV 1/5; 1308/1980] END leaf\_size=33, n\_neighbors=21;;, score=0.626 total time=  
 0.0s  
 [CV 2/5; 1308/1980] START leaf\_size=33, n\_neighbors=21...  
 [CV 3/5; 1315/1980] START leaf\_size=33, n\_neighbors=28...  
 [CV 2/5; 1305/1980] END leaf\_size=33, n\_neighbors=18;;, score=0.590 total time=  
 0.0s  
 [CV 3/5; 1305/1980] START leaf\_size=33, n\_neighbors=18...  
 [CV 3/5; 1302/1980] END leaf\_size=33, n\_neighbors=15;;, score=0.557 total time=  
 0.0s  
 [CV 1/5; 1317/1980] START leaf\_size=33, n\_neighbors=30...  
 [CV 5/5; 1313/1980] END leaf\_size=33, n\_neighbors=26;;, score=0.628 total time=  
 0.0s  
 [CV 1/5; 1314/1980] START leaf\_size=33, n\_neighbors=27...  
 [CV 5/5; 1303/1980] END leaf\_size=33, n\_neighbors=16;;, score=0.621 total time=  
 0.0s [CV 2/5; 1312/1980] END leaf\_size=33, n\_neighbors=25;;, score=0.598 total  
 time= 0.0s  
  
 [CV 3/5; 1312/1980] START leaf\_size=33, n\_neighbors=25...  
 [CV 1/5; 1304/1980] START leaf\_size=33, n\_neighbors=17...  
 [CV 5/5; 1310/1980] END leaf\_size=33, n\_neighbors=23;;, score=0.643 total time=  
 0.0s  
 [CV 1/5; 1311/1980] START leaf\_size=33, n\_neighbors=24...  
 [CV 5/5; 1306/1980] END leaf\_size=33, n\_neighbors=19;;, score=0.626 total time=  
 0.0s  
 [CV 1/5; 1307/1980] START leaf\_size=33, n\_neighbors=20...  
 [CV 3/5; 1315/1980] END leaf\_size=33, n\_neighbors=28;;, score=0.568 total time=  
 0.0s  
 [CV 4/5; 1315/1980] START leaf\_size=33, n\_neighbors=28...  
 [CV 2/5; 1308/1980] END leaf\_size=33, n\_neighbors=21;;, score=0.581 total time=  
 0.0s  
 [CV 3/5; 1308/1980] START leaf\_size=33, n\_neighbors=21...  
 [CV 3/5; 1305/1980] END leaf\_size=33, n\_neighbors=18;;, score=0.555 total time=



0.0s  
 [CV 4/5; 1305/1980] START leaf\_size=33, n\_neighbors=18...  
 [CV 3/5; 1309/1980] END leaf\_size=33, n\_neighbors=22;; score=0.555 total time=  
 0.0s  
 [CV 4/5; 1309/1980] START leaf\_size=33, n\_neighbors=22...  
 [CV 1/5; 1317/1980] END leaf\_size=33, n\_neighbors=30;; score=0.639 total time=  
 0.0s  
 [CV 2/5; 1317/1980] START leaf\_size=33, n\_neighbors=30...  
 [CV 1/5; 1314/1980] END leaf\_size=33, n\_neighbors=27;; score=0.650 total time=  
 0.0s  
 [CV 2/5; 1314/1980] START leaf\_size=33, n\_neighbors=27...  
 [CV 1/5; 1307/1980] END leaf\_size=33, n\_neighbors=20;; score=0.618 total time=  
 0.0s  
 [CV 2/5; 1307/1980] START leaf\_size=33, n\_neighbors=20...  
 [CV 1/5; 1304/1980] END leaf\_size=33, n\_neighbors=17;; score=0.631 total time=  
 0.0s  
 [CV 4/5; 1318/1980] START leaf\_size=33, n\_neighbors=31...  
 [CV 4/5; 1315/1980] END leaf\_size=33, n\_neighbors=28;; score=0.597 total time=  
 0.0s  
 [CV 5/5; 1315/1980] START leaf\_size=33, n\_neighbors=28...  
 [CV 3/5; 1308/1980] END leaf\_size=33, n\_neighbors=21;; score=0.559 total time=  
 0.0s  
 [CV 4/5; 1308/1980] START leaf\_size=33, n\_neighbors=21...  
 [CV 4/5; 1305/1980] END leaf\_size=33, n\_neighbors=18;; score=0.600 total time=  
 0.0s  
 [CV 4/5; 1309/1980] END leaf\_size=33, n\_neighbors=22;; score=0.600 total time=  
 0.0s  
 [CV 5/5; 1309/1980] START leaf\_size=33, n\_neighbors=22...  
 [CV 1/5; 1311/1980] END leaf\_size=33, n\_neighbors=24;; score=0.646 total time=  
 0.0s [CV 2/5; 1320/1980] START leaf\_size=33,  
 n\_neighbors=33...  
 [CV 2/5; 1317/1980] END leaf\_size=33, n\_neighbors=30;; score=0.607 total time=  
 0.0s  
 [CV 3/5; 1317/1980] START leaf\_size=33, n\_neighbors=30...  
  
 [CV 2/5; 1311/1980] START leaf\_size=33, n\_neighbors=24...  
 [CV 2/5; 1307/1980] END leaf\_size=33, n\_neighbors=20;; score=0.583 total time=  
 0.0s  
 [CV 2/5; 1314/1980] END leaf\_size=33, n\_neighbors=27;; score=0.594 total time=  
 0.0s  
 [CV 3/5; 1314/1980] START leaf\_size=33, n\_neighbors=27...  
 [CV 5/5; 1321/1980] START leaf\_size=33, n\_neighbors=34...  
 [CV 5/5; 1315/1980] END leaf\_size=33, n\_neighbors=28;; score=0.641 total time=  
 0.0s  
 [CV 1/5; 1316/1980] START leaf\_size=33, n\_neighbors=29...  
 [CV 4/5; 1318/1980] END leaf\_size=33, n\_neighbors=31;; score=0.595 total time=  
 0.0s  
 [CV 5/5; 1318/1980] START leaf\_size=33, n\_neighbors=31...

[CV 3/5; 1312/1980] END leaf\_size=33, n\_neighbors=25;; score=0.557 total time=0.1s  
 [CV 4/5; 1312/1980] START leaf\_size=33, n\_neighbors=25...  
 [CV 5/5; 1309/1980] END leaf\_size=33, n\_neighbors=22;; score=0.628 total time=0.0s  
 [CV 1/5; 1310/1980] START leaf\_size=33, n\_neighbors=23...  
 [CV 3/5; 1317/1980] END leaf\_size=33, n\_neighbors=30;; score=0.579 total time=0.0s  
 [CV 4/5; 1317/1980] START leaf\_size=33, n\_neighbors=30...  
 [CV 4/5; 1308/1980] END leaf\_size=33, n\_neighbors=21;; score=0.606 total time=0.0s  
 [CV 5/5; 1308/1980] START leaf\_size=33, n\_neighbors=21...  
 [CV 2/5; 1320/1980] END leaf\_size=33, n\_neighbors=33;; score=0.607 total time=0.0s  
 [CV 3/5; 1320/1980] START leaf\_size=33, n\_neighbors=33...  
 [CV 5/5; 1321/1980] END leaf\_size=33, n\_neighbors=34;; score=0.634 total time=0.0s  
 [CV 1/5; 1322/1980] START leaf\_size=33, n\_neighbors=35...  
 [CV 1/5; 1316/1980] END leaf\_size=33, n\_neighbors=29;; score=0.646 total time=0.0s  
 [CV 2/5; 1316/1980] START leaf\_size=33, n\_neighbors=29...  
 [CV 3/5; 1314/1980] END leaf\_size=33, n\_neighbors=27;; score=0.568 total time=0.0s  
 [CV 4/5; 1314/1980] START leaf\_size=33, n\_neighbors=27...  
 [CV 5/5; 1318/1980] END leaf\_size=33, n\_neighbors=31;; score=0.634 total time=0.0s  
 [CV 1/5; 1319/1980] START leaf\_size=33, n\_neighbors=32...  
 [CV 4/5; 1317/1980] END leaf\_size=33, n\_neighbors=30;; score=0.595 total time=0.0s  
 [CV 5/5; 1317/1980] START leaf\_size=33, n\_neighbors=30...  
 [CV 5/5; 1308/1980] END leaf\_size=33, n\_neighbors=21;; score=0.621 total time=0.0s  
 [CV 2/5; 1311/1980] END leaf\_size=33, n\_neighbors=24;; score=0.596 total time=0.1s  
 [CV 3/5; 1311/1980] START leaf\_size=33, n\_neighbors=24...  
 [CV 3/5; 1323/1980] START leaf\_size=33, n\_neighbors=36...  
 [CV 2/5; 1316/1980] END leaf\_size=33, n\_neighbors=29;; score=0.600 total time=0.0s  
 [CV 3/5; 1316/1980] START leaf\_size=33, n\_neighbors=29...  
 [CV 1/5; 1322/1980] END leaf\_size=33, n\_neighbors=35;; score=0.650 total time=0.0s  
 [CV 2/5; 1322/1980] START leaf\_size=33, n\_neighbors=35...  
 [CV 4/5; 1314/1980] END leaf\_size=33, n\_neighbors=27;; score=0.593 total time=0.0s  
 [CV 5/5; 1314/1980] START leaf\_size=33, n\_neighbors=27...  
 [CV 5/5; 1317/1980] END leaf\_size=33, n\_neighbors=30;; score=0.632 total time=0.0s  
 [CV 1/5; 1318/1980] START leaf\_size=33, n\_neighbors=31...

[CV 3/5; 1316/1980] END leaf\_size=33, n\_neighbors=29;; score=0.577 total time=0.0s  
 [CV 4/5; 1316/1980] START leaf\_size=33, n\_neighbors=29...  
 [CV 1/5; 1310/1980] END leaf\_size=33, n\_neighbors=23;; score=0.646 total time=0.1s  
 [CV 2/5; 1310/1980] START leaf\_size=33, n\_neighbors=23...  
 [CV 3/5; 1323/1980] END leaf\_size=33, n\_neighbors=36;; score=0.566 total time=0.0s  
 [CV 4/5; 1323/1980] START leaf\_size=33, n\_neighbors=36...  
 [CV 4/5; 1312/1980] END leaf\_size=33, n\_neighbors=25;; score=0.587 total time=0.1s  
 [CV 3/5; 1311/1980] END leaf\_size=33, n\_neighbors=24;; score=0.564 total time=0.0s  
 [CV 5/5; 1314/1980] END leaf\_size=33, n\_neighbors=27;; score=0.630 total time=0.0s  
 [CV 1/5; 1315/1980] START leaf\_size=33, n\_neighbors=28...  
 [CV 5/5; 1312/1980] START leaf\_size=33, n\_neighbors=25...  
  
 [CV 4/5; 1311/1980] START leaf\_size=33, n\_neighbors=24...  
 [CV 3/5; 1320/1980] END leaf\_size=33, n\_neighbors=33;; score=0.570 total time=0.1s  
 [CV 4/5; 1320/1980] START leaf\_size=33, n\_neighbors=33...  
 [CV 4/5; 1316/1980] END leaf\_size=33, n\_neighbors=29;; score=0.600 total time=0.0s  
 [CV 5/5; 1316/1980] START leaf\_size=33, n\_neighbors=29...  
 [CV 2/5; 1310/1980] END leaf\_size=33, n\_neighbors=23;; score=0.583 total time=0.0s  
 [CV 3/5; 1310/1980] START leaf\_size=33, n\_neighbors=23...  
 [CV 2/5; 1322/1980] END leaf\_size=33, n\_neighbors=35;; score=0.607 total time=0.1s  
 [CV 1/5; 1318/1980] END leaf\_size=33, n\_neighbors=31;; score=0.644 total time=0.0s  
 [CV 3/5; 1322/1980] START leaf\_size=33, n\_neighbors=35...  
 [CV 2/5; 1318/1980] START leaf\_size=33, n\_neighbors=31...  
 [CV 1/5; 1319/1980] END leaf\_size=33, n\_neighbors=32;; score=0.639 total time=0.1s  
 [CV 2/5; 1319/1980] START leaf\_size=33, n\_neighbors=32...  
 [CV 4/5; 1323/1980] END leaf\_size=33, n\_neighbors=36;; score=0.600 total time=0.0s  
 [CV 5/5; 1323/1980] START leaf\_size=33, n\_neighbors=36...  
 [CV 5/5; 1312/1980] END leaf\_size=33, n\_neighbors=25;; score=0.647 total time=0.0s  
 [CV 1/5; 1313/1980] START leaf\_size=33, n\_neighbors=26...  
 [CV 4/5; 1311/1980] END leaf\_size=33, n\_neighbors=24;; score=0.597 total time=0.0s  
 [CV 5/5; 1311/1980] START leaf\_size=33, n\_neighbors=24...  
 [CV 5/5; 1316/1980] END leaf\_size=33, n\_neighbors=29;; score=0.639 total time=0.0s  
 [CV 2/5; 1318/1980] END leaf\_size=33, n\_neighbors=31;; score=0.603 total time=

0.0s  
 [CV 3/5; 1318/1980] START leaf\_size=33, n\_neighbors=31...  
 [CV 3/5; 1322/1980] END leaf\_size=33, n\_neighbors=35;; score=0.572 total time=  
 0.0s  
 [CV 4/5; 1322/1980] START leaf\_size=33, n\_neighbors=35...  
 [CV 1/5; 1315/1980] END leaf\_size=33, n\_neighbors=28;; score=0.650 total time=  
 0.0s  
 [CV 2/5; 1315/1980] START leaf\_size=33, n\_neighbors=28...  
 [CV 2/5; 1319/1980] END leaf\_size=33, n\_neighbors=32;; score=0.605 total time=  
 0.0s  
 [CV 1/5; 1325/1980] START leaf\_size=33, n\_neighbors=38...  
 [CV 3/5; 1319/1980] START leaf\_size=33, n\_neighbors=32...  
 [CV 1/5; 1313/1980] END leaf\_size=33, n\_neighbors=26;; score=0.639 total time=  
 0.0s  
 [CV 2/5; 1313/1980] START leaf\_size=33, n\_neighbors=26...  
 [CV 5/5; 1311/1980] END leaf\_size=33, n\_neighbors=24;; score=0.647 total time=  
 0.0s  
 [CV 1/5; 1312/1980] START leaf\_size=33, n\_neighbors=25...  
 [CV 3/5; 1310/1980] END leaf\_size=33, n\_neighbors=23;; score=0.557 total time=  
 0.0s  
 [CV 5/5; 1323/1980] END leaf\_size=33, n\_neighbors=36;; score=0.628 total time=  
 0.0s  
 [CV 1/5; 1324/1980] START leaf\_size=33, n\_neighbors=37...  
 [CV 4/5; 1326/1980] START leaf\_size=33, n\_neighbors=39...  
 [CV 4/5; 1320/1980] END leaf\_size=33, n\_neighbors=33;; score=0.597 total time=  
 0.1s  
 [CV 5/5; 1320/1980] START leaf\_size=33, n\_neighbors=33...  
 [CV 3/5; 1318/1980] END leaf\_size=33, n\_neighbors=31;; score=0.570 total time=  
 0.0s  
 [CV 2/5; 1328/1980] START leaf\_size=33, n\_neighbors=41...  
 [CV 4/5; 1322/1980] END leaf\_size=33, n\_neighbors=35;; score=0.604 total time=  
 0.0s  
 [CV 5/5; 1322/1980] START leaf\_size=33, n\_neighbors=35...  
 [CV 1/5; 1325/1980] END leaf\_size=33, n\_neighbors=38;; score=0.652 total time=  
 0.0s  
 [CV 2/5; 1325/1980] START leaf\_size=33, n\_neighbors=38...  
 [CV 3/5; 1319/1980] END leaf\_size=33, n\_neighbors=32;; score=0.577 total time=  
 0.0s  
 [CV 4/5; 1319/1980] START leaf\_size=33, n\_neighbors=32...  
 [CV 2/5; 1313/1980] END leaf\_size=33, n\_neighbors=26;; score=0.600 total time=  
 0.0s  
 [CV 3/5; 1313/1980] START leaf\_size=33, n\_neighbors=26...  
 [CV 1/5; 1312/1980] END leaf\_size=33, n\_neighbors=25;; score=0.646 total time=  
 0.0s  
 [CV 5/5; 1329/1980] START leaf\_size=33, n\_neighbors=42...  
 [CV 4/5; 1326/1980] END leaf\_size=33, n\_neighbors=39;; score=0.602 total time=  
 0.0s  
 [CV 5/5; 1326/1980] START leaf\_size=33, n\_neighbors=39...

[CV 2/5; 1315/1980] END leaf\_size=33, n\_neighbors=28;; score=0.598 total time=0.0s  
 [CV 5/5; 1320/1980] END leaf\_size=33, n\_neighbors=33;; score=0.630 total time= 0.0s  
 [CV 1/5; 1321/1980] START leaf\_size=33, n\_neighbors=34...  
  
 [CV 3/5; 1331/1980] START leaf\_size=33, n\_neighbors=44...  
 [CV 1/5; 1324/1980] END leaf\_size=33, n\_neighbors=37;; score=0.657 total time=0.0s  
 [CV 2/5; 1324/1980] START leaf\_size=33, n\_neighbors=37...  
 [CV 5/5; 1322/1980] END leaf\_size=33, n\_neighbors=35;; score=0.639 total time=0.0s  
 [CV 1/5; 1323/1980] START leaf\_size=33, n\_neighbors=36...  
 [CV 2/5; 1325/1980] END leaf\_size=33, n\_neighbors=38;; score=0.613 total time=0.0s  
 [CV 3/5; 1325/1980] START leaf\_size=33, n\_neighbors=38...  
 [CV 4/5; 1319/1980] END leaf\_size=33, n\_neighbors=32;; score=0.593 total time=0.0s  
 [CV 3/5; 1313/1980] END leaf\_size=33, n\_neighbors=26;; score=0.564 total time= 0.0s  
  
 [CV 4/5; 1313/1980] START leaf\_size=33, n\_neighbors=26...  
 [CV 5/5; 1319/1980] START leaf\_size=33, n\_neighbors=32...  
 [CV 5/5; 1329/1980] END leaf\_size=33, n\_neighbors=42;; score=0.621 total time=0.0s  
 [CV 1/5; 1330/1980] START leaf\_size=33, n\_neighbors=43...  
  
 [CV 1/5; 1321/1980] END leaf\_size=33, n\_neighbors=34;; score=0.644 total time=0.0s  
 [CV 2/5; 1321/1980] START leaf\_size=33, n\_neighbors=34...  
 [CV 5/5; 1326/1980] END leaf\_size=33, n\_neighbors=39;; score=0.636 total time=0.0s  
 [CV 1/5; 1327/1980] START leaf\_size=33, n\_neighbors=40...  
 [CV 3/5; 1331/1980] END leaf\_size=33, n\_neighbors=44;; score=0.570 total time=0.0s  
 [CV 4/5; 1331/1980] START leaf\_size=33, n\_neighbors=44...  
 [CV 3/5; 1325/1980] END leaf\_size=33, n\_neighbors=38;; score=0.566 total time=0.0s  
 [CV 4/5; 1325/1980] START leaf\_size=33, n\_neighbors=38...  
 [CV 1/5; 1323/1980] END leaf\_size=33, n\_neighbors=36;; score=0.644 total time=0.0s  
 [CV 2/5; 1323/1980] START leaf\_size=33, n\_neighbors=36...  
 [CV 2/5; 1324/1980] END leaf\_size=33, n\_neighbors=37;; score=0.607 total time=0.0s  
 [CV 3/5; 1324/1980] START leaf\_size=33, n\_neighbors=37...  
 [CV 5/5; 1319/1980] END leaf\_size=33, n\_neighbors=32;; score=0.628 total time=0.0s  
 [CV 1/5; 1320/1980] START leaf\_size=33, n\_neighbors=33...  
 [CV 2/5; 1321/1980] END leaf\_size=33, n\_neighbors=34;; score=0.600 total time=

0.0s  
 [CV 3/5; 1321/1980] START leaf\_size=33, n\_neighbors=34...  
 [CV 4/5; 1313/1980] END leaf\_size=33, n\_neighbors=26;; score=0.593 total time=  
 0.0s  
 [CV 1/5; 1327/1980] END leaf\_size=33, n\_neighbors=40;; score=0.661 total time=  
 0.0s  
 [CV 2/5; 1327/1980] START leaf\_size=33, n\_neighbors=40...  
 [CV 1/5; 1333/1980] START leaf\_size=33, n\_neighbors=46...  
 [CV 2/5; 1328/1980] END leaf\_size=33, n\_neighbors=41;; score=0.618 total time=  
 0.1s  
 [CV 3/5; 1328/1980] START leaf\_size=33, n\_neighbors=41...  
 [CV 1/5; 1330/1980] END leaf\_size=33, n\_neighbors=43;; score=0.674 total time=  
 0.0s  
 [CV 2/5; 1330/1980] START leaf\_size=33, n\_neighbors=43...  
 [CV 4/5; 1325/1980] END leaf\_size=33, n\_neighbors=38;; score=0.602 total time=  
 0.0s  
 [CV 5/5; 1325/1980] START leaf\_size=33, n\_neighbors=38...  
 [CV 2/5; 1323/1980] END leaf\_size=33, n\_neighbors=36;; score=0.616 total time=  
 0.0s  
 [CV 4/5; 1331/1980] END leaf\_size=33, n\_neighbors=44;; score=0.597 total time=  
 0.0s  
 [CV 5/5; 1331/1980] START leaf\_size=33, n\_neighbors=44...  
 [CV 4/5; 1334/1980] START leaf\_size=33, n\_neighbors=47...  
 [CV 1/5; 1320/1980] END leaf\_size=33, n\_neighbors=33;; score=0.646 total time=  
 0.0s  
 [CV 3/5; 1321/1980] END leaf\_size=33, n\_neighbors=34;; score=0.577 total time=  
 0.0s  
 [CV 4/5; 1321/1980] START leaf\_size=33, n\_neighbors=34...  
 [CV 2/5; 1336/1980] START leaf\_size=33, n\_neighbors=49...  
 [CV 1/5; 1333/1980] END leaf\_size=33, n\_neighbors=46;; score=0.672 total time=  
 0.0s  
 [CV 2/5; 1333/1980] START leaf\_size=33, n\_neighbors=46...  
 [CV 3/5; 1324/1980] END leaf\_size=33, n\_neighbors=37;; score=0.568 total time=  
 0.0s  
 [CV 4/5; 1324/1980] START leaf\_size=33, n\_neighbors=37...  
 [CV 2/5; 1327/1980] END leaf\_size=33, n\_neighbors=40;; score=0.611 total time=  
 0.0s  
 [CV 3/5; 1327/1980] START leaf\_size=33, n\_neighbors=40...  
 [CV 5/5; 1325/1980] END leaf\_size=33, n\_neighbors=38;; score=0.634 total time=  
 0.0s  
 [CV 1/5; 1326/1980] START leaf\_size=33, n\_neighbors=39...  
 [CV 3/5; 1328/1980] END leaf\_size=33, n\_neighbors=41;; score=0.568 total time=  
 0.0s  
 [CV 2/5; 1330/1980] END leaf\_size=33, n\_neighbors=43;; score=0.616 total time=  
 0.0s  
 [CV 4/5; 1328/1980] START leaf\_size=33, n\_neighbors=41...  
 [CV 3/5; 1330/1980] START leaf\_size=33, n\_neighbors=43...  
 [CV 4/5; 1334/1980] END leaf\_size=33, n\_neighbors=47;; score=0.589 total time=

0.0s  
 [CV 5/5; 1334/1980] START leaf\_size=33, n\_neighbors=47...  
 [CV 4/5; 1321/1980] END leaf\_size=33, n\_neighbors=34;; score=0.597 total time=  
 0.0s  
 [CV 5/5; 1331/1980] END leaf\_size=33, n\_neighbors=44;; score=0.615 total time=  
 0.0s  
 [CV 1/5; 1332/1980] START leaf\_size=33, n\_neighbors=45...  
 [CV 5/5; 1337/1980] START leaf\_size=33, n\_neighbors=50...  
 [CV 2/5; 1336/1980] END leaf\_size=33, n\_neighbors=49;; score=0.622 total time=  
 0.0s  
 [CV 3/5; 1336/1980] START leaf\_size=33, n\_neighbors=49...  
 [CV 2/5; 1333/1980] END leaf\_size=33, n\_neighbors=46;; score=0.616 total time=  
 0.0s  
 [CV 3/5; 1333/1980] START leaf\_size=33, n\_neighbors=46...  
 [CV 1/5; 1326/1980] END leaf\_size=33, n\_neighbors=39;; score=0.654 total time=  
 0.0s  
 [CV 2/5; 1326/1980] START leaf\_size=33, n\_neighbors=39...  
 [CV 4/5; 1324/1980] END leaf\_size=33, n\_neighbors=37;; score=0.610 total time=  
 0.0s  
 [CV 5/5; 1324/1980] START leaf\_size=33, n\_neighbors=37...  
 [CV 3/5; 1327/1980] END leaf\_size=33, n\_neighbors=40;; score=0.572 total time=  
 0.0s [CV 3/5; 1330/1980] END leaf\_size=33, n\_neighbors=43;; score=0.566 total  
 time= 0.0s  
 [CV 4/5; 1330/1980] START leaf\_size=33, n\_neighbors=43...  
 [CV 4/5; 1328/1980] END leaf\_size=33, n\_neighbors=41;; score=0.610 total time=  
 0.0s  
 [CV 5/5; 1328/1980] START leaf\_size=33, n\_neighbors=41...  
  
 [CV 4/5; 1327/1980] START leaf\_size=33, n\_neighbors=40...  
 [CV 5/5; 1334/1980] END leaf\_size=33, n\_neighbors=47;; score=0.623 total time=  
 0.0s  
 [CV 1/5; 1335/1980] START leaf\_size=33, n\_neighbors=48...  
 [CV 5/5; 1337/1980] END leaf\_size=33, n\_neighbors=50;; score=0.619 total time=  
 0.0s  
 [CV 1/5; 1338/1980] START leaf\_size=33, n\_neighbors=51...  
 [CV 3/5; 1336/1980] END leaf\_size=33, n\_neighbors=49;; score=0.568 total time=  
 0.0s  
 [CV 3/5; 1333/1980] END leaf\_size=33, n\_neighbors=46;; score=0.572 total time=  
 0.0s  
 [CV 4/5; 1336/1980] START leaf\_size=33, n\_neighbors=49...  
 [CV 4/5; 1333/1980] START leaf\_size=33, n\_neighbors=46...  
 [CV 1/5; 1332/1980] END leaf\_size=33, n\_neighbors=45;; score=0.678 total time=  
 0.0s  
 [CV 2/5; 1332/1980] START leaf\_size=33, n\_neighbors=45...  
 [CV 2/5; 1326/1980] END leaf\_size=33, n\_neighbors=39;; score=0.609 total time=  
 0.0s  
 [CV 3/5; 1326/1980] START leaf\_size=33, n\_neighbors=39...  
 [CV 5/5; 1328/1980] END leaf\_size=33, n\_neighbors=41;; score=0.619 total time=

0.0s  
 [CV 1/5; 1329/1980] START leaf\_size=33, n\_neighbors=42...  
 [CV 4/5; 1327/1980] END leaf\_size=33, n\_neighbors=40;; score=0.595 total time=  
 0.0s  
 [CV 4/5; 1330/1980] END leaf\_size=33, n\_neighbors=43;; score=0.600 total time=  
 0.0s[CV 5/5; 1327/1980] START leaf\_size=33,  
 n\_neighbors=40...  
  
 [CV 5/5; 1330/1980] START leaf\_size=33, n\_neighbors=43...  
 [CV 5/5; 1324/1980] END leaf\_size=33, n\_neighbors=37;; score=0.628 total time=  
 0.0s  
 [CV 3/5; 1339/1980] START leaf\_size=33, n\_neighbors=52...  
 [CV 1/5; 1335/1980] END leaf\_size=33, n\_neighbors=48;; score=0.672 total time=  
 0.0s  
 [CV 2/5; 1335/1980] START leaf\_size=33, n\_neighbors=48...  
 [CV 4/5; 1333/1980] END leaf\_size=33, n\_neighbors=46;; score=0.597 total time=  
 0.0s  
 [CV 5/5; 1333/1980] START leaf\_size=33, n\_neighbors=46...  
 [CV 1/5; 1338/1980] END leaf\_size=33, n\_neighbors=51;; score=0.680 total time=  
 0.0s  
 [CV 2/5; 1338/1980] START leaf\_size=33, n\_neighbors=51...  
 [CV 4/5; 1336/1980] END leaf\_size=33, n\_neighbors=49;; score=0.593 total time=  
 0.0s  
 [CV 5/5; 1336/1980] START leaf\_size=33, n\_neighbors=49...  
 [CV 3/5; 1326/1980] END leaf\_size=33, n\_neighbors=39;; score=0.575 total time=  
 0.0s  
 [CV 1/5; 1341/1980] START leaf\_size=33, n\_neighbors=54...  
 [CV 5/5; 1327/1980] END leaf\_size=33, n\_neighbors=40;; score=0.617 total time=  
 0.0s  
 [CV 1/5; 1328/1980] START leaf\_size=33, n\_neighbors=41...  
 [CV 5/5; 1330/1980] END leaf\_size=33, n\_neighbors=43;; score=0.615 total time=  
 0.0s  
 [CV 1/5; 1331/1980] START leaf\_size=33, n\_neighbors=44...  
 [CV 1/5; 1329/1980] END leaf\_size=33, n\_neighbors=42;; score=0.667 total time=  
 0.0s  
 [CV 2/5; 1329/1980] START leaf\_size=33, n\_neighbors=42...  
 [CV 2/5; 1332/1980] END leaf\_size=33, n\_neighbors=45;; score=0.611 total time=  
 0.0s  
 [CV 3/5; 1332/1980] START leaf\_size=33, n\_neighbors=45...  
 [CV 2/5; 1335/1980] END leaf\_size=33, n\_neighbors=48;; score=0.609 total time=  
 0.0s  
 [CV 3/5; 1335/1980] START leaf\_size=33, n\_neighbors=48...  
 [CV 3/5; 1339/1980] END leaf\_size=33, n\_neighbors=52;; score=0.566 total time=  
 0.0s  
 [CV 4/5; 1339/1980] START leaf\_size=33, n\_neighbors=52...  
 [CV 5/5; 1333/1980] END leaf\_size=33, n\_neighbors=46;; score=0.619 total time=  
 0.0s  
 [CV 1/5; 1334/1980] START leaf\_size=33, n\_neighbors=47...



[CV 2/5; 1338/1980] END leaf\_size=33, n\_neighbors=51;; score=0.618 total time=0.0s  
 [CV 3/5; 1338/1980] START leaf\_size=33, n\_neighbors=51...  
 [CV 5/5; 1336/1980] END leaf\_size=33, n\_neighbors=49;; score=0.623 total time=0.0s  
 [CV 1/5; 1337/1980] START leaf\_size=33, n\_neighbors=50...  
 [CV 1/5; 1328/1980] END leaf\_size=33, n\_neighbors=41;; score=0.665 total time=0.0s  
 [CV 1/5; 1341/1980] END leaf\_size=33, n\_neighbors=54;; score=0.667 total time=0.0s  
 [CV 2/5; 1341/1980] START leaf\_size=33, n\_neighbors=54...  
 [CV 4/5; 1342/1980] START leaf\_size=33, n\_neighbors=55...  
 [CV 3/5; 1335/1980] END leaf\_size=33, n\_neighbors=48;; score=0.562 total time=0.0s  
 [CV 4/5; 1335/1980] START leaf\_size=33, n\_neighbors=48...  
 [CV 1/5; 1331/1980] END leaf\_size=33, n\_neighbors=44;; score=0.667 total time=0.0s  
 [CV 2/5; 1329/1980] END leaf\_size=33, n\_neighbors=42;; score=0.618 total time=0.0s  
 [CV 2/5; 1331/1980] START leaf\_size=33, n\_neighbors=44...  
  
 [CV 3/5; 1329/1980] START leaf\_size=33, n\_neighbors=42...  
 [CV 3/5; 1332/1980] END leaf\_size=33, n\_neighbors=45;; score=0.575 total time=0.0s  
 [CV 4/5; 1332/1980] START leaf\_size=33, n\_neighbors=45...  
 [CV 1/5; 1334/1980] END leaf\_size=33, n\_neighbors=47;; score=0.676 total time=0.0s  
 [CV 2/5; 1334/1980] START leaf\_size=33, n\_neighbors=47...  
 [CV 4/5; 1339/1980] END leaf\_size=33, n\_neighbors=52;; score=0.597 total time=0.0s  
 [CV 5/5; 1339/1980] START leaf\_size=33, n\_neighbors=52...  
 [CV 4/5; 1342/1980] END leaf\_size=33, n\_neighbors=55;; score=0.593 total time=0.0s  
 [CV 5/5; 1342/1980] START leaf\_size=33, n\_neighbors=55...  
 [CV 4/5; 1335/1980] END leaf\_size=33, n\_neighbors=48;; score=0.589 total time=0.0s  
 [CV 5/5; 1335/1980] START leaf\_size=33, n\_neighbors=48...  
 [CV 3/5; 1329/1980] END leaf\_size=33, n\_neighbors=42;; score=0.564 total time=0.0s  
 [CV 4/5; 1329/1980] START leaf\_size=33, n\_neighbors=42...  
 [CV 2/5; 1331/1980] END leaf\_size=33, n\_neighbors=44;; score=0.613 total time=0.0s  
 [CV 4/5; 1332/1980] END leaf\_size=33, n\_neighbors=45;; score=0.600 total time=0.0s  
 [CV 2/5; 1344/1980] START leaf\_size=33, n\_neighbors=57...  
 [CV 5/5; 1332/1980] START leaf\_size=33, n\_neighbors=45...  
 [CV 5/5; 1339/1980] END leaf\_size=33, n\_neighbors=52;; score=0.619 total time=0.0s

[CV 1/5; 1340/1980] START leaf\_size=33, n\_neighbors=53...  
 [CV 5/5; 1335/1980] END leaf\_size=33, n\_neighbors=48;; score=0.630 total time=0.0s  
 [CV 1/5; 1336/1980] START leaf\_size=33, n\_neighbors=49...  
 [CV 5/5; 1342/1980] END leaf\_size=33, n\_neighbors=55;; score=0.608 total time=0.0s  
 [CV 1/5; 1343/1980] START leaf\_size=33, n\_neighbors=56...  
 [CV 4/5; 1329/1980] END leaf\_size=33, n\_neighbors=42;; score=0.608 total time=0.0s  
 [CV 3/5; 1338/1980] END leaf\_size=33, n\_neighbors=51;; score=0.566 total time=0.1s  
 [CV 4/5; 1338/1980] START leaf\_size=33, n\_neighbors=51...  
 [CV 5/5; 1345/1980] START leaf\_size=33, n\_neighbors=58...  
 [CV 2/5; 1344/1980] END leaf\_size=33, n\_neighbors=57;; score=0.616 total time=0.0s  
 [CV 3/5; 1344/1980] START leaf\_size=33, n\_neighbors=57...  
 [CV 1/5; 1337/1980] END leaf\_size=33, n\_neighbors=50;; score=0.678 total time=0.1s  
 [CV 2/5; 1337/1980] START leaf\_size=33, n\_neighbors=50...  
 [CV 1/5; 1340/1980] END leaf\_size=33, n\_neighbors=53;; score=0.678 total time=0.0s  
 [CV 2/5; 1340/1980] START leaf\_size=33, n\_neighbors=53...  
 [CV 5/5; 1332/1980] END leaf\_size=33, n\_neighbors=45;; score=0.619 total time=0.0s  
 [CV 2/5; 1334/1980] END leaf\_size=33, n\_neighbors=47;; score=0.611 total time=0.1s  
 [CV 3/5; 1334/1980] START leaf\_size=33, n\_neighbors=47...  
 [CV 3/5; 1347/1980] START leaf\_size=33, n\_neighbors=60...  
 [CV 1/5; 1336/1980] END leaf\_size=33, n\_neighbors=49;; score=0.676 total time=0.0s  
 [CV 2/5; 1341/1980] END leaf\_size=33, n\_neighbors=54;; score=0.618 total time=0.1s  
 [CV 3/5; 1341/1980] START leaf\_size=33, n\_neighbors=54...  
 [CV 1/5; 1349/1980] START leaf\_size=33, n\_neighbors=62...  
 [CV 1/5; 1343/1980] END leaf\_size=33, n\_neighbors=56;; score=0.670 total time=0.0s  
 [CV 2/5; 1343/1980] START leaf\_size=33, n\_neighbors=56...  
 [CV 4/5; 1338/1980] END leaf\_size=33, n\_neighbors=51;; score=0.602 total time=0.0s  
 [CV 5/5; 1338/1980] START leaf\_size=33, n\_neighbors=51...  
 [CV 5/5; 1345/1980] END leaf\_size=33, n\_neighbors=58;; score=0.610 total time=0.0s  
 [CV 1/5; 1346/1980] START leaf\_size=33, n\_neighbors=59...  
 [CV 3/5; 1344/1980] END leaf\_size=33, n\_neighbors=57;; score=0.559 total time=0.0s  
 [CV 4/5; 1344/1980] START leaf\_size=33, n\_neighbors=57...  
 [CV 2/5; 1340/1980] END leaf\_size=33, n\_neighbors=53;; score=0.611 total time=0.0s

[CV 3/5; 1340/1980] START leaf\_size=33, n\_neighbors=53...  
 [CV 1/5; 1349/1980] END leaf\_size=33, n\_neighbors=62;; score=0.663 total time=0.0s  
 [CV 2/5; 1349/1980] START leaf\_size=33, n\_neighbors=62...  
 [CV 3/5; 1347/1980] END leaf\_size=33, n\_neighbors=60;; score=0.553 total time=0.0s  
 [CV 4/5; 1347/1980] START leaf\_size=33, n\_neighbors=60...  
 [CV 2/5; 1343/1980] END leaf\_size=33, n\_neighbors=56;; score=0.609 total time=0.0s  
 [CV 3/5; 1343/1980] START leaf\_size=33, n\_neighbors=56...  
 [CV 3/5; 1334/1980] END leaf\_size=33, n\_neighbors=47;; score=0.572 total time=0.0s  
 [CV 2/5; 1337/1980] END leaf\_size=33, n\_neighbors=50;; score=0.603 total time=0.0s  
 [CV 3/5; 1337/1980] START leaf\_size=33, n\_neighbors=50...  
 [CV 4/5; 1350/1980] START leaf\_size=33, n\_neighbors=63...  
 [CV 5/5; 1338/1980] END leaf\_size=33, n\_neighbors=51;; score=0.621 total time=0.0s  
 [CV 1/5; 1339/1980] START leaf\_size=33, n\_neighbors=52...  
 [CV 3/5; 1341/1980] END leaf\_size=33, n\_neighbors=54;; score=0.562 total time=0.0s  
 [CV 4/5; 1341/1980] START leaf\_size=33, n\_neighbors=54...  
 [CV 4/5; 1344/1980] END leaf\_size=33, n\_neighbors=57;; score=0.597 total time=0.0s  
 [CV 1/5; 1346/1980] END leaf\_size=33, n\_neighbors=59;; score=0.670 total time=0.0s  
 [CV 5/5; 1344/1980] START leaf\_size=33, n\_neighbors=57...  
 [CV 2/5; 1346/1980] START leaf\_size=33, n\_neighbors=59...  
 [CV 3/5; 1340/1980] END leaf\_size=33, n\_neighbors=53;; score=0.572 total time=0.0s  
 [CV 4/5; 1340/1980] START leaf\_size=33, n\_neighbors=53...  
 [CV 3/5; 1343/1980] END leaf\_size=33, n\_neighbors=56;; score=0.551 total time=0.0s  
 [CV 4/5; 1343/1980] START leaf\_size=33, n\_neighbors=56...  
 [CV 2/5; 1349/1980] END leaf\_size=33, n\_neighbors=62;; score=0.603 total time=0.0s  
 [CV 3/5; 1349/1980] START leaf\_size=33, n\_neighbors=62...  
 [CV 3/5; 1337/1980] END leaf\_size=33, n\_neighbors=50;; score=0.557 total time=0.0s  
 [CV 4/5; 1337/1980] START leaf\_size=33, n\_neighbors=50...  
 [CV 4/5; 1347/1980] END leaf\_size=33, n\_neighbors=60;; score=0.602 total time=0.0s  
 [CV 4/5; 1350/1980] END leaf\_size=33, n\_neighbors=63;; score=0.604 total time=0.0s  
 [CV 5/5; 1350/1980] START leaf\_size=33, n\_neighbors=63...  
  
 [CV 5/5; 1347/1980] START leaf\_size=33, n\_neighbors=60...  
 [CV 1/5; 1339/1980] END leaf\_size=33, n\_neighbors=52;; score=0.676 total time=0.0s

[CV 2/5; 1339/1980] START leaf\_size=33, n\_neighbors=52...  
 [CV 4/5; 1341/1980] END leaf\_size=33, n\_neighbors=54;; score=0.595 total time=0.0s  
 [CV 5/5; 1341/1980] START leaf\_size=33, n\_neighbors=54...  
 [CV 5/5; 1344/1980] END leaf\_size=33, n\_neighbors=57;; score=0.610 total time=0.0s  
 [CV 1/5; 1345/1980] START leaf\_size=33, n\_neighbors=58...  
 [CV 2/5; 1346/1980] END leaf\_size=33, n\_neighbors=59;; score=0.609 total time=0.0s  
 [CV 3/5; 1346/1980] START leaf\_size=33, n\_neighbors=59...  
 [CV 4/5; 1340/1980] END leaf\_size=33, n\_neighbors=53;; score=0.600 total time=0.0s  
 [CV 5/5; 1340/1980] START leaf\_size=33, n\_neighbors=53...  
 [CV 4/5; 1343/1980] END leaf\_size=33, n\_neighbors=56;; score=0.591 total time=0.0s  
 [CV 5/5; 1343/1980] START leaf\_size=33, n\_neighbors=56...  
 [CV 3/5; 1349/1980] END leaf\_size=33, n\_neighbors=62;; score=0.555 total time=0.0s  
 [CV 4/5; 1349/1980] START leaf\_size=33, n\_neighbors=62...  
 [CV 4/5; 1337/1980] END leaf\_size=33, n\_neighbors=50;; score=0.597 total time=0.0s  
 [CV 5/5; 1350/1980] END leaf\_size=33, n\_neighbors=63;; score=0.615 total time=0.0s  
 [CV 1/5; 1351/1980] START leaf\_size=33, n\_neighbors=64...  
 [CV 2/5; 1352/1980] START leaf\_size=33, n\_neighbors=65...  
 [CV 5/5; 1347/1980] END leaf\_size=33, n\_neighbors=60;; score=0.604 total time=0.0s  
 [CV 5/5; 1341/1980] END leaf\_size=33, n\_neighbors=54;; score=0.608 total time=0.0s  
 [CV 1/5; 1342/1980] START leaf\_size=33, n\_neighbors=55...  
 [CV 2/5; 1339/1980] END leaf\_size=33, n\_neighbors=52;; score=0.611 total time=0.0s  
  
 [CV 1/5; 1348/1980] START leaf\_size=33, n\_neighbors=61...  
 [CV 3/5; 1346/1980] END leaf\_size=33, n\_neighbors=59;; score=0.553 total time=0.0s  
 [CV 4/5; 1346/1980] START leaf\_size=33, n\_neighbors=59...  
 [CV 1/5; 1345/1980] END leaf\_size=33, n\_neighbors=58;; score=0.665 total time=0.0s  
 [CV 2/5; 1345/1980] START leaf\_size=33, n\_neighbors=58...  
 [CV 5/5; 1353/1980] START leaf\_size=33, n\_neighbors=66...  
 [CV 5/5; 1343/1980] END leaf\_size=33, n\_neighbors=56;; score=0.613 total time=0.0s  
 [CV 1/5; 1344/1980] START leaf\_size=33, n\_neighbors=57...  
 [CV 4/5; 1349/1980] END leaf\_size=33, n\_neighbors=62;; score=0.600 total time=0.0s  
 [CV 5/5; 1349/1980] START leaf\_size=33, n\_neighbors=62...  
 [CV 5/5; 1340/1980] END leaf\_size=33, n\_neighbors=53;; score=0.613 total time=0.0s

[CV 1/5; 1351/1980] END leaf\_size=33, n\_neighbors=64;; score=0.663 total time=0.0s  
 [CV 2/5; 1351/1980] START leaf\_size=33, n\_neighbors=64...  
 [CV 3/5; 1355/1980] START leaf\_size=33, n\_neighbors=68...  
 [CV 2/5; 1352/1980] END leaf\_size=33, n\_neighbors=65;; score=0.616 total time=0.0s  
 [CV 3/5; 1352/1980] START leaf\_size=33, n\_neighbors=65...  
 [CV 1/5; 1342/1980] END leaf\_size=33, n\_neighbors=55;; score=0.667 total time=0.0s  
 [CV 2/5; 1342/1980] START leaf\_size=33, n\_neighbors=55...  
 [CV 1/5; 1348/1980] END leaf\_size=33, n\_neighbors=61;; score=0.665 total time=0.0s  
 [CV 2/5; 1348/1980] START leaf\_size=33, n\_neighbors=61...  
 [CV 4/5; 1346/1980] END leaf\_size=33, n\_neighbors=59;; score=0.604 total time=0.0s  
 [CV 5/5; 1346/1980] START leaf\_size=33, n\_neighbors=59...  
 [CV 2/5; 1345/1980] END leaf\_size=33, n\_neighbors=58;; score=0.609 total time=0.0s  
 [CV 3/5; 1345/1980] START leaf\_size=33, n\_neighbors=58...  
 [CV 5/5; 1353/1980] END leaf\_size=33, n\_neighbors=66;; score=0.613 total time=0.0s  
 [CV 1/5; 1344/1980] END leaf\_size=33, n\_neighbors=57;; score=0.665 total time=0.0s  
 [CV 1/5; 1354/1980] START leaf\_size=33, n\_neighbors=67...  
 [CV 5/5; 1349/1980] END leaf\_size=33, n\_neighbors=62;; score=0.610 total time=0.0s  
 [CV 1/5; 1350/1980] START leaf\_size=33, n\_neighbors=63...  
 [CV 2/5; 1351/1980] END leaf\_size=33, n\_neighbors=64;; score=0.609 total time=0.0s  
 [CV 3/5; 1351/1980] START leaf\_size=33, n\_neighbors=64...  
 [CV 3/5; 1352/1980] END leaf\_size=33, n\_neighbors=65;; score=0.566 total time=0.0s  
 [CV 4/5; 1352/1980] START leaf\_size=33, n\_neighbors=65...  
 [CV 1/5; 1357/1980] START leaf\_size=33, n\_neighbors=70...  
 [CV 3/5; 1355/1980] END leaf\_size=33, n\_neighbors=68;; score=0.566 total time=0.0s  
 [CV 4/5; 1355/1980] START leaf\_size=33, n\_neighbors=68...  
 [CV 2/5; 1342/1980] END leaf\_size=33, n\_neighbors=55;; score=0.618 total time=0.0s  
 [CV 3/5; 1342/1980] START leaf\_size=33, n\_neighbors=55...  
 [CV 5/5; 1346/1980] END leaf\_size=33, n\_neighbors=59;; score=0.610 total time=0.0s  
 [CV 1/5; 1347/1980] START leaf\_size=33, n\_neighbors=60...  
 [CV 3/5; 1345/1980] END leaf\_size=33, n\_neighbors=58;; score=0.549 total time=0.0s  
 [CV 4/5; 1345/1980] START leaf\_size=33, n\_neighbors=58...  
 [CV 1/5; 1354/1980] END leaf\_size=33, n\_neighbors=67;; score=0.663 total time=0.0s

[CV 2/5; 1354/1980] START leaf\_size=33, n\_neighbors=67...  
 [CV 1/5; 1350/1980] END leaf\_size=33, n\_neighbors=63;; score=0.665 total time=0.0s  
 [CV 2/5; 1350/1980] START leaf\_size=33, n\_neighbors=63...  
 [CV 3/5; 1351/1980] END leaf\_size=33, n\_neighbors=64;; score=0.562 total time=0.0s  
 [CV 4/5; 1351/1980] START leaf\_size=33, n\_neighbors=64...  
 [CV 2/5; 1348/1980] END leaf\_size=33, n\_neighbors=61;; score=0.603 total time=0.0s  
 [CV 3/5; 1348/1980] START leaf\_size=33, n\_neighbors=61...  
 [CV 4/5; 1352/1980] END leaf\_size=33, n\_neighbors=65;; score=0.591 total time=0.0s  
 [CV 5/5; 1352/1980] START leaf\_size=33, n\_neighbors=65...  
 [CV 3/5; 1342/1980] END leaf\_size=33, n\_neighbors=55;; score=0.564 total time=0.0s  
 [CV 1/5; 1357/1980] END leaf\_size=33, n\_neighbors=70;; score=0.663 total time=0.0s  
 [CV 2/5; 1357/1980] START leaf\_size=33, n\_neighbors=70...  
 [CV 4/5; 1358/1980] START leaf\_size=33, n\_neighbors=71...  
 [CV 4/5; 1355/1980] END leaf\_size=33, n\_neighbors=68;; score=0.576 total time=0.0s  
 [CV 5/5; 1355/1980] START leaf\_size=33, n\_neighbors=68...  
 [CV 4/5; 1345/1980] END leaf\_size=33, n\_neighbors=58;; score=0.595 total time=0.0s  
 [CV 1/5; 1347/1980] END leaf\_size=33, n\_neighbors=60;; score=0.667 total time=0.0s  
 [CV 2/5; 1347/1980] START leaf\_size=33, n\_neighbors=60...  
 [CV 2/5; 1354/1980] END leaf\_size=33, n\_neighbors=67;; score=0.611 total time=0.0s  
 [CV 3/5; 1354/1980] START leaf\_size=33, n\_neighbors=67...  
 [CV 2/5; 1360/1980] START leaf\_size=33, n\_neighbors=73...  
 [CV 2/5; 1350/1980] END leaf\_size=33, n\_neighbors=63;; score=0.609 total time=0.0s  
 [CV 3/5; 1350/1980] START leaf\_size=33, n\_neighbors=63...  
 [CV 4/5; 1351/1980] END leaf\_size=33, n\_neighbors=64;; score=0.593 total time=0.0s  
 [CV 5/5; 1351/1980] START leaf\_size=33, n\_neighbors=64...  
 [CV 5/5; 1352/1980] END leaf\_size=33, n\_neighbors=65;; score=0.621 total time=0.0s  
 [CV 1/5; 1353/1980] START leaf\_size=33, n\_neighbors=66...  
 [CV 2/5; 1357/1980] END leaf\_size=33, n\_neighbors=70;; score=0.607 total time=0.0s  
 [CV 3/5; 1357/1980] START leaf\_size=33, n\_neighbors=70...  
 [CV 4/5; 1358/1980] END leaf\_size=33, n\_neighbors=71;; score=0.587 total time=0.0s  
 [CV 5/5; 1358/1980] START leaf\_size=33, n\_neighbors=71...  
 [CV 3/5; 1348/1980] END leaf\_size=33, n\_neighbors=61;; score=0.557 total time=0.0s

[CV 4/5; 1348/1980] START leaf\_size=33, n\_neighbors=61...  
 [CV 5/5; 1355/1980] END leaf\_size=33, n\_neighbors=68;; score=0.615 total time=0.0s  
 [CV 1/5; 1356/1980] START leaf\_size=33, n\_neighbors=69...  
 [CV 3/5; 1350/1980] END leaf\_size=33, n\_neighbors=63;; score=0.562 total time=0.0s  
 [CV 3/5; 1354/1980] END leaf\_size=33, n\_neighbors=67;; score=0.564 total time=0.0s  
 [CV 2/5; 1347/1980] END leaf\_size=33, n\_neighbors=60;; score=0.605 total time=0.0s  
 [CV 4/5; 1354/1980] START leaf\_size=33, n\_neighbors=67...  
  
 [CV 5/5; 1361/1980] START leaf\_size=33, n\_neighbors=74...  
 [CV 5/5; 1351/1980] END leaf\_size=33, n\_neighbors=64;; score=0.613 total time=0.0s  
 [CV 1/5; 1352/1980] START leaf\_size=33, n\_neighbors=65...  
 [CV 3/5; 1363/1980] START leaf\_size=33, n\_neighbors=76...  
 [CV 2/5; 1360/1980] END leaf\_size=33, n\_neighbors=73;; score=0.605 total time=0.0s  
 [CV 3/5; 1360/1980] START leaf\_size=33, n\_neighbors=73...  
 [CV 1/5; 1353/1980] END leaf\_size=33, n\_neighbors=66;; score=0.663 total time=0.0s  
 [CV 2/5; 1353/1980] START leaf\_size=33, n\_neighbors=66...  
 [CV 3/5; 1357/1980] END leaf\_size=33, n\_neighbors=70;; score=0.559 total time=0.0s  
 [CV 4/5; 1357/1980] START leaf\_size=33, n\_neighbors=70...  
 [CV 5/5; 1358/1980] END leaf\_size=33, n\_neighbors=71;; score=0.613 total time=0.0s  
 [CV 1/5; 1359/1980] START leaf\_size=33, n\_neighbors=72...  
 [CV 4/5; 1354/1980] END leaf\_size=33, n\_neighbors=67;; score=0.587 total time=0.0s  
 [CV 5/5; 1354/1980] START leaf\_size=33, n\_neighbors=67...  
 [CV 1/5; 1356/1980] END leaf\_size=33, n\_neighbors=69;; score=0.663 total time=0.0s  
 [CV 2/5; 1356/1980] START leaf\_size=33, n\_neighbors=69...  
 [CV 3/5; 1363/1980] END leaf\_size=33, n\_neighbors=76;; score=0.557 total time=0.0s  
 [CV 4/5; 1363/1980] START leaf\_size=33, n\_neighbors=76...  
 [CV 5/5; 1361/1980] END leaf\_size=33, n\_neighbors=74;; score=0.623 total time=0.0s  
 [CV 1/5; 1362/1980] START leaf\_size=33, n\_neighbors=75...  
 [CV 3/5; 1360/1980] END leaf\_size=33, n\_neighbors=73;; score=0.566 total time=0.0s  
 [CV 4/5; 1360/1980] START leaf\_size=33, n\_neighbors=73...  
 [CV 4/5; 1348/1980] END leaf\_size=33, n\_neighbors=61;; score=0.604 total time=0.0s  
 [CV 5/5; 1348/1980] START leaf\_size=33, n\_neighbors=61...  
 [CV 4/5; 1357/1980] END leaf\_size=33, n\_neighbors=70;; score=0.589 total time=

```

0.0s
[CV 5/5; 1357/1980] START leaf_size=33, n_neighbors=70...
[CV 1/5; 1359/1980] END leaf_size=33, n_neighbors=72;; score=0.663 total time=
0.0s
[CV 2/5; 1359/1980] START leaf_size=33, n_neighbors=72...
[CV 4/5; 1363/1980] END leaf_size=33, n_neighbors=76;; score=0.578 total time=
0.0s
[CV 5/5; 1363/1980] START leaf_size=33, n_neighbors=76...
[CV 2/5; 1356/1980] END leaf_size=33, n_neighbors=69;; score=0.609 total time=
0.0s
[CV 3/5; 1356/1980] START leaf_size=33, n_neighbors=69...
[CV 4/5; 1360/1980] END leaf_size=33, n_neighbors=73;; score=0.591 total time=
0.0s[CV 1/5; 1362/1980] END leaf_size=33, n_neighbors=75;; score=0.667 total
time= 0.0s
[CV 2/5; 1362/1980] START leaf_size=33, n_neighbors=75...

[CV 5/5; 1360/1980] START leaf_size=33, n_neighbors=73...
[CV 2/5; 1359/1980] END leaf_size=33, n_neighbors=72;; score=0.607 total time=
0.0s
[CV 3/5; 1359/1980] START leaf_size=33, n_neighbors=72...
[CV 5/5; 1357/1980] END leaf_size=33, n_neighbors=70;; score=0.606 total time=
0.0s
[CV 1/5; 1358/1980] START leaf_size=33, n_neighbors=71...
[CV 5/5; 1348/1980] END leaf_size=33, n_neighbors=61;; score=0.606 total time=
0.0s
[CV 1/5; 1365/1980] START leaf_size=33, n_neighbors=78...
[CV 5/5; 1363/1980] END leaf_size=33, n_neighbors=76;; score=0.621 total time=
0.0s
[CV 1/5; 1364/1980] START leaf_size=33, n_neighbors=77...
[CV 1/5; 1352/1980] END leaf_size=33, n_neighbors=65;; score=0.663 total time=
0.1s
[CV 3/5; 1356/1980] END leaf_size=33, n_neighbors=69;; score=0.568 total time=
0.0s
[CV 4/5; 1356/1980] START leaf_size=33, n_neighbors=69...
[CV 4/5; 1366/1980] START leaf_size=33, n_neighbors=79...
[CV 5/5; 1360/1980] END leaf_size=33, n_neighbors=73;; score=0.628 total time=
0.0s
[CV 1/5; 1361/1980] START leaf_size=33, n_neighbors=74...
[CV 2/5; 1362/1980] END leaf_size=33, n_neighbors=75;; score=0.603 total time=
0.0s
[CV 3/5; 1362/1980] START leaf_size=33, n_neighbors=75...
[CV 2/5; 1353/1980] END leaf_size=33, n_neighbors=66;; score=0.609 total time=
0.1s
[CV 3/5; 1353/1980] START leaf_size=33, n_neighbors=66...
[CV 1/5; 1358/1980] END leaf_size=33, n_neighbors=71;; score=0.670 total time=
0.0s
[CV 2/5; 1358/1980] START leaf_size=33, n_neighbors=71...
[CV 3/5; 1359/1980] END leaf_size=33, n_neighbors=72;; score=0.562 total time=

```



0.0s  
 [CV 4/5; 1359/1980] START leaf\_size=33, n\_neighbors=72...  
 [CV 5/5; 1354/1980] END leaf\_size=33, n\_neighbors=67;; score=0.613 total time=  
 0.1s  
 [CV 1/5; 1355/1980] START leaf\_size=33, n\_neighbors=68...  
 [CV 1/5; 1365/1980] END leaf\_size=33, n\_neighbors=78;; score=0.659 total time=  
 0.0s  
 [CV 2/5; 1365/1980] START leaf\_size=33, n\_neighbors=78...  
 [CV 1/5; 1364/1980] END leaf\_size=33, n\_neighbors=77;; score=0.667 total time=  
 0.0s  
 [CV 2/5; 1364/1980] START leaf\_size=33, n\_neighbors=77...  
 [CV 3/5; 1353/1980] END leaf\_size=33, n\_neighbors=66;; score=0.566 total time=  
 0.0s  
 [CV 4/5; 1353/1980] START leaf\_size=33, n\_neighbors=66...  
 [CV 4/5; 1359/1980] END leaf\_size=33, n\_neighbors=72;; score=0.593 total time=  
 0.0s  
 [CV 5/5; 1359/1980] START leaf\_size=33, n\_neighbors=72...  
 [CV 3/5; 1362/1980] END leaf\_size=33, n\_neighbors=75;; score=0.555 total time=  
 0.0s [CV 4/5; 1356/1980] END leaf\_size=33, n\_neighbors=69;; score=0.582 total  
 time= 0.0s  
  
 [CV 4/5; 1362/1980] START leaf\_size=33, n\_neighbors=75...  
 [CV 5/5; 1356/1980] START leaf\_size=33, n\_neighbors=69...  
 [CV 1/5; 1361/1980] END leaf\_size=33, n\_neighbors=74;; score=0.661 total time=  
 0.0s  
 [CV 2/5; 1361/1980] START leaf\_size=33, n\_neighbors=74...  
 [CV 2/5; 1358/1980] END leaf\_size=33, n\_neighbors=71;; score=0.616 total time=  
 0.0s  
 [CV 3/5; 1358/1980] START leaf\_size=33, n\_neighbors=71...  
 [CV 4/5; 1366/1980] END leaf\_size=33, n\_neighbors=79;; score=0.584 total time=  
 0.1s  
 [CV 5/5; 1366/1980] START leaf\_size=33, n\_neighbors=79...  
 [CV 2/5; 1364/1980] END leaf\_size=33, n\_neighbors=77;; score=0.605 total time=  
 0.0s  
 [CV 3/5; 1364/1980] START leaf\_size=33, n\_neighbors=77...  
 [CV 2/5; 1365/1980] END leaf\_size=33, n\_neighbors=78;; score=0.603 total time=  
 0.0s  
 [CV 3/5; 1365/1980] START leaf\_size=33, n\_neighbors=78...  
 [CV 4/5; 1353/1980] END leaf\_size=33, n\_neighbors=66;; score=0.574 total time=  
 0.0s  
 [CV 5/5; 1359/1980] END leaf\_size=33, n\_neighbors=72;; score=0.613 total time=  
 0.0s  
 [CV 1/5; 1360/1980] START leaf\_size=33, n\_neighbors=73...  
 [CV 2/5; 1368/1980] START leaf\_size=33, n\_neighbors=81...  
 [CV 1/5; 1355/1980] END leaf\_size=33, n\_neighbors=68;; score=0.667 total time=  
 0.1s  
 [CV 2/5; 1355/1980] START leaf\_size=33, n\_neighbors=68...  
 [CV 2/5; 1361/1980] END leaf\_size=33, n\_neighbors=74;; score=0.607 total time=

0.0s  
 [CV 3/5; 1361/1980] START leaf\_size=33, n\_neighbors=74...  
 [CV 4/5; 1362/1980] END leaf\_size=33, n\_neighbors=75;; score=0.591 total time=  
 0.0s  
 [CV 5/5; 1362/1980] START leaf\_size=33, n\_neighbors=75...  
 [CV 5/5; 1356/1980] END leaf\_size=33, n\_neighbors=69;; score=0.621 total time=  
 0.0s  
 [CV 5/5; 1369/1980] START leaf\_size=33, n\_neighbors=82...  
 [CV 3/5; 1358/1980] END leaf\_size=33, n\_neighbors=71;; score=0.562 total time=  
 0.0s  
 [CV 3/5; 1371/1980] START leaf\_size=33, n\_neighbors=84...  
 [CV 5/5; 1366/1980] END leaf\_size=33, n\_neighbors=79;; score=0.619 total time=  
 0.0s  
 [CV 1/5; 1367/1980] START leaf\_size=33, n\_neighbors=80...  
 [CV 3/5; 1364/1980] END leaf\_size=33, n\_neighbors=77;; score=0.562 total time=  
 0.0s  
 [CV 4/5; 1364/1980] START leaf\_size=33, n\_neighbors=77...  
 [CV 2/5; 1368/1980] END leaf\_size=33, n\_neighbors=81;; score=0.596 total time=  
 0.0s  
 [CV 3/5; 1368/1980] START leaf\_size=33, n\_neighbors=81...  
 [CV 1/5; 1360/1980] END leaf\_size=33, n\_neighbors=73;; score=0.663 total time=  
 0.0s  
 [CV 2/5; 1355/1980] END leaf\_size=33, n\_neighbors=68;; score=0.609 total time=  
 0.0s  
 [CV 1/5; 1373/1980] START leaf\_size=33, n\_neighbors=86...  
 [CV 3/5; 1361/1980] END leaf\_size=33, n\_neighbors=74;; score=0.557 total time=  
 0.0s  
 [CV 4/5; 1361/1980] START leaf\_size=33, n\_neighbors=74...  
 [CV 5/5; 1362/1980] END leaf\_size=33, n\_neighbors=75;; score=0.632 total time=  
 0.0s  
 [CV 1/5; 1363/1980] START leaf\_size=33, n\_neighbors=76...  
 [CV 4/5; 1374/1980] START leaf\_size=33, n\_neighbors=87...  
 [CV 1/5; 1367/1980] END leaf\_size=33, n\_neighbors=80;; score=0.659 total time=  
 0.0s  
 [CV 2/5; 1367/1980] START leaf\_size=33, n\_neighbors=80...  
 [CV 5/5; 1369/1980] END leaf\_size=33, n\_neighbors=82;; score=0.630 total time=  
 0.0s  
 [CV 1/5; 1370/1980] START leaf\_size=33, n\_neighbors=83...  
 [CV 4/5; 1364/1980] END leaf\_size=33, n\_neighbors=77;; score=0.580 total time=  
 0.0s  
 [CV 3/5; 1371/1980] END leaf\_size=33, n\_neighbors=84;; score=0.555 total time=  
 0.0s  
 [CV 5/5; 1364/1980] START leaf\_size=33,  
 n\_neighbors=77...[CV 4/5; 1371/1980] START leaf\_size=33,  
 n\_neighbors=84...  
  
 [CV 3/5; 1365/1980] END leaf\_size=33, n\_neighbors=78;; score=0.555 total time=  
 0.1s

[CV 4/5; 1365/1980] START leaf\_size=33, n\_neighbors=78...  
 [CV 3/5; 1368/1980] END leaf\_size=33, n\_neighbors=81;; score=0.562 total time=0.0s  
 [CV 4/5; 1368/1980] START leaf\_size=33, n\_neighbors=81...  
 [CV 4/5; 1361/1980] END leaf\_size=33, n\_neighbors=74;; score=0.591 total time=0.0s  
 [CV 1/5; 1363/1980] END leaf\_size=33, n\_neighbors=76;; score=0.667 total time=0.0s  
 [CV 2/5; 1363/1980] START leaf\_size=33, n\_neighbors=76...  
 [CV 2/5; 1376/1980] START leaf\_size=33, n\_neighbors=89...  
 [CV 4/5; 1374/1980] END leaf\_size=33, n\_neighbors=87;; score=0.584 total time=0.0s  
 [CV 5/5; 1374/1980] START leaf\_size=33, n\_neighbors=87...  
 [CV 2/5; 1367/1980] END leaf\_size=33, n\_neighbors=80;; score=0.594 total time=0.0s  
 [CV 3/5; 1367/1980] START leaf\_size=33, n\_neighbors=80...  
 [CV 1/5; 1373/1980] END leaf\_size=33, n\_neighbors=86;; score=0.648 total time=0.0s  
 [CV 2/5; 1373/1980] START leaf\_size=33, n\_neighbors=86...  
 [CV 1/5; 1370/1980] END leaf\_size=33, n\_neighbors=83;; score=0.650 total time=0.0s  
 [CV 2/5; 1370/1980] START leaf\_size=33, n\_neighbors=83...  
 [CV 4/5; 1368/1980] END leaf\_size=33, n\_neighbors=81;; score=0.587 total time=0.0s  
 [CV 5/5; 1368/1980] START leaf\_size=33, n\_neighbors=81...  
 [CV 5/5; 1364/1980] END leaf\_size=33, n\_neighbors=77;; score=0.617 total time=0.0s  
 [CV 4/5; 1365/1980] END leaf\_size=33, n\_neighbors=78;; score=0.571 total time=0.0s  
 [CV 5/5; 1365/1980] START leaf\_size=33, n\_neighbors=78...  
 [CV 5/5; 1377/1980] START leaf\_size=33, n\_neighbors=90...  
 [CV 2/5; 1363/1980] END leaf\_size=33, n\_neighbors=76;; score=0.603 total time=0.0s  
 [CV 2/5; 1376/1980] END leaf\_size=33, n\_neighbors=89;; score=0.600 total time=0.0s  
 [CV 3/5; 1376/1980] START leaf\_size=33, n\_neighbors=89...  
 [CV 3/5; 1379/1980] START leaf\_size=33, n\_neighbors=92...  
 [CV 4/5; 1371/1980] END leaf\_size=33, n\_neighbors=84;; score=0.582 total time=0.1s  
 [CV 5/5; 1371/1980] START leaf\_size=33, n\_neighbors=84...  
 [CV 3/5; 1367/1980] END leaf\_size=33, n\_neighbors=80;; score=0.564 total time=0.0s  
 [CV 4/5; 1367/1980] START leaf\_size=33, n\_neighbors=80...  
 [CV 5/5; 1374/1980] END leaf\_size=33, n\_neighbors=87;; score=0.619 total time=0.0s  
 [CV 1/5; 1375/1980] START leaf\_size=33, n\_neighbors=88...  
 [CV 2/5; 1373/1980] END leaf\_size=33, n\_neighbors=86;; score=0.598 total time=0.0s

[CV 3/5; 1373/1980] START leaf\_size=33, n\_neighbors=86...  
 [CV 2/5; 1370/1980] END leaf\_size=33, n\_neighbors=83;; score=0.596 total time=0.0s  
 [CV 3/5; 1370/1980] START leaf\_size=33, n\_neighbors=83...  
 [CV 5/5; 1368/1980] END leaf\_size=33, n\_neighbors=81;; score=0.626 total time=0.0s  
 [CV 1/5; 1369/1980] START leaf\_size=33, n\_neighbors=82...  
 [CV 5/5; 1365/1980] END leaf\_size=33, n\_neighbors=78;; score=0.628 total time=0.0s  
 [CV 1/5; 1366/1980] START leaf\_size=33, n\_neighbors=79...  
 [CV 4/5; 1367/1980] END leaf\_size=33, n\_neighbors=80;; score=0.584 total time=0.0s  
 [CV 5/5; 1367/1980] START leaf\_size=33, n\_neighbors=80...  
 [CV 3/5; 1379/1980] END leaf\_size=33, n\_neighbors=92;; score=0.564 total time=0.0s  
 [CV 4/5; 1379/1980] START leaf\_size=33, n\_neighbors=92...  
 [CV 3/5; 1376/1980] END leaf\_size=33, n\_neighbors=89;; score=0.564 total time=0.0s  
 [CV 4/5; 1376/1980] START leaf\_size=33, n\_neighbors=89...  
 [CV 1/5; 1375/1980] END leaf\_size=33, n\_neighbors=88;; score=0.652 total time=0.0s  
 [CV 2/5; 1375/1980] START leaf\_size=33, n\_neighbors=88...  
 [CV 5/5; 1371/1980] END leaf\_size=33, n\_neighbors=84;; score=0.626 total time=0.0s  
 [CV 3/5; 1373/1980] END leaf\_size=33, n\_neighbors=86;; score=0.559 total time= 0.0s  
 [CV 4/5; 1373/1980] START leaf\_size=33, n\_neighbors=86...  
  
 [CV 1/5; 1372/1980] START leaf\_size=33, n\_neighbors=85...  
 [CV 3/5; 1370/1980] END leaf\_size=33, n\_neighbors=83;; score=0.564 total time=0.0s  
 [CV 4/5; 1370/1980] START leaf\_size=33, n\_neighbors=83...  
 [CV 1/5; 1369/1980] END leaf\_size=33, n\_neighbors=82;; score=0.659 total time=0.0s  
 [CV 2/5; 1369/1980] START leaf\_size=33, n\_neighbors=82...  
 [CV 1/5; 1366/1980] END leaf\_size=33, n\_neighbors=79;; score=0.659 total time=0.0s  
 [CV 2/5; 1366/1980] START leaf\_size=33, n\_neighbors=79...  
 [CV 5/5; 1367/1980] END leaf\_size=33, n\_neighbors=80;; score=0.628 total time=0.0s  
 [CV 1/5; 1368/1980] START leaf\_size=33, n\_neighbors=81...  
 [CV 4/5; 1376/1980] END leaf\_size=33, n\_neighbors=89;; score=0.591 total time=0.0s  
 [CV 5/5; 1376/1980] START leaf\_size=33, n\_neighbors=89...  
 [CV 4/5; 1379/1980] END leaf\_size=33, n\_neighbors=92;; score=0.582 total time=0.0s  
 [CV 5/5; 1379/1980] START leaf\_size=33, n\_neighbors=92...  
 [CV 2/5; 1375/1980] END leaf\_size=33, n\_neighbors=88;; score=0.600 total time=0.0s

[CV 3/5; 1375/1980] START leaf\_size=33, n\_neighbors=88...  
 [CV 4/5; 1373/1980] END leaf\_size=33, n\_neighbors=86;; score=0.580 total time=0.0s  
 [CV 5/5; 1373/1980] START leaf\_size=33, n\_neighbors=86...  
 [CV 5/5; 1377/1980] END leaf\_size=33, n\_neighbors=90;; score=0.617 total time=0.1s  
 [CV 1/5; 1372/1980] END leaf\_size=33, n\_neighbors=85;; score=0.650 total time= 0.0s  
 [CV 2/5; 1372/1980] START leaf\_size=33, n\_neighbors=85...  
  
 [CV 1/5; 1378/1980] START leaf\_size=33, n\_neighbors=91...  
 [CV 2/5; 1369/1980] END leaf\_size=33, n\_neighbors=82;; score=0.600 total time=0.0s  
 [CV 3/5; 1369/1980] START leaf\_size=33, n\_neighbors=82...  
 [CV 4/5; 1370/1980] END leaf\_size=33, n\_neighbors=83;; score=0.584 total time=0.0s  
 [CV 5/5; 1370/1980] START leaf\_size=33, n\_neighbors=83...  
 [CV 2/5; 1366/1980] END leaf\_size=33, n\_neighbors=79;; score=0.598 total time=0.0s  
 [CV 3/5; 1366/1980] START leaf\_size=33, n\_neighbors=79...  
 [CV 3/5; 1375/1980] END leaf\_size=33, n\_neighbors=88;; score=0.562 total time=0.0s  
 [CV 4/5; 1375/1980] START leaf\_size=33, n\_neighbors=88...  
 [CV 5/5; 1376/1980] END leaf\_size=33, n\_neighbors=89;; score=0.621 total time=0.0s  
 [CV 1/5; 1377/1980] START leaf\_size=33, n\_neighbors=90...  
 [CV 5/5; 1379/1980] END leaf\_size=33, n\_neighbors=92;; score=0.621 total time=0.0s  
 [CV 1/5; 1380/1980] START leaf\_size=33, n\_neighbors=93...  
 [CV 5/5; 1373/1980] END leaf\_size=33, n\_neighbors=86;; score=0.623 total time=0.0s  
 [CV 1/5; 1374/1980] START leaf\_size=33, n\_neighbors=87...  
 [CV 2/5; 1372/1980] END leaf\_size=33, n\_neighbors=85;; score=0.600 total time=0.0s  
 [CV 3/5; 1372/1980] START leaf\_size=33, n\_neighbors=85...  
 [CV 3/5; 1369/1980] END leaf\_size=33, n\_neighbors=82;; score=0.566 total time=0.0s  
 [CV 4/5; 1369/1980] START leaf\_size=33, n\_neighbors=82...  
 [CV 5/5; 1370/1980] END leaf\_size=33, n\_neighbors=83;; score=0.619 total time=0.0s  
 [CV 1/5; 1378/1980] END leaf\_size=33, n\_neighbors=91;; score=0.648 total time=0.0s  
 [CV 1/5; 1371/1980] START leaf\_size=33, n\_neighbors=84...  
 [CV 2/5; 1378/1980] START leaf\_size=33, n\_neighbors=91...  
 [CV 3/5; 1366/1980] END leaf\_size=33, n\_neighbors=79;; score=0.557 total time=0.0s  
 [CV 1/5; 1381/1980] START leaf\_size=33, n\_neighbors=94...  
 [CV 1/5; 1368/1980] END leaf\_size=33, n\_neighbors=81;; score=0.659 total time=0.1s

[CV 4/5; 1382/1980] START leaf\_size=33, n\_neighbors=95...  
 [CV 4/5; 1369/1980] END leaf\_size=33, n\_neighbors=82;; score=0.587 total time=0.0s  
 [CV 3/5; 1372/1980] END leaf\_size=33, n\_neighbors=85;; score=0.557 total time=0.0s  
 [CV 4/5; 1372/1980] START leaf\_size=33, n\_neighbors=85...  
 [CV 4/5; 1375/1980] END leaf\_size=33, n\_neighbors=88;; score=0.578 total time=0.0s  
 [CV 5/5; 1375/1980] START leaf\_size=33, n\_neighbors=88...  
 [CV 1/5; 1377/1980] END leaf\_size=33, n\_neighbors=90;; score=0.650 total time=0.0s  
 [CV 2/5; 1377/1980] START leaf\_size=33, n\_neighbors=90...  
 [CV 2/5; 1384/1980] START leaf\_size=33, n\_neighbors=97...  
 [CV 1/5; 1374/1980] END leaf\_size=33, n\_neighbors=87;; score=0.650 total time=0.0s  
 [CV 2/5; 1374/1980] START leaf\_size=33, n\_neighbors=87...  
 [CV 1/5; 1380/1980] END leaf\_size=33, n\_neighbors=93;; score=0.646 total time=0.0s  
 [CV 2/5; 1380/1980] START leaf\_size=33, n\_neighbors=93...  
 [CV 1/5; 1371/1980] END leaf\_size=33, n\_neighbors=84;; score=0.654 total time=0.0s  
 [CV 2/5; 1371/1980] START leaf\_size=33, n\_neighbors=84...  
 [CV 2/5; 1378/1980] END leaf\_size=33, n\_neighbors=91;; score=0.605 total time=0.0s  
 [CV 3/5; 1378/1980] START leaf\_size=33, n\_neighbors=91...  
 [CV 1/5; 1381/1980] END leaf\_size=33, n\_neighbors=94;; score=0.644 total time=0.0s  
 [CV 2/5; 1381/1980] START leaf\_size=33, n\_neighbors=94...  
 [CV 4/5; 1372/1980] END leaf\_size=33, n\_neighbors=85;; score=0.576 total time=0.0s  
 [CV 5/5; 1372/1980] START leaf\_size=33, n\_neighbors=85...  
 [CV 5/5; 1375/1980] END leaf\_size=33, n\_neighbors=88;; score=0.617 total time=0.0s  
 [CV 1/5; 1376/1980] START leaf\_size=33, n\_neighbors=89...  
 [CV 2/5; 1384/1980] END leaf\_size=33, n\_neighbors=97;; score=0.594 total time=0.0s  
 [CV 3/5; 1384/1980] START leaf\_size=33, n\_neighbors=97...  
 [CV 2/5; 1374/1980] END leaf\_size=33, n\_neighbors=87;; score=0.603 total time=0.0s  
 [CV 3/5; 1374/1980] START leaf\_size=33, n\_neighbors=87...  
 [CV 2/5; 1377/1980] END leaf\_size=33, n\_neighbors=90;; score=0.600 total time=0.0s  
 [CV 3/5; 1377/1980] START leaf\_size=33, n\_neighbors=90...  
 [CV 2/5; 1380/1980] END leaf\_size=33, n\_neighbors=93;; score=0.603 total time=0.0s  
 [CV 3/5; 1380/1980] START leaf\_size=33, n\_neighbors=93...  
 [CV 2/5; 1371/1980] END leaf\_size=33, n\_neighbors=84;; score=0.603 total time=0.0s

[CV 3/5; 1378/1980] END leaf\_size=33, n\_neighbors=91;; score=0.564 total time=0.0s  
 [CV 4/5; 1378/1980] START leaf\_size=33, n\_neighbors=91...  
 [CV 5/5; 1385/1980] START leaf\_size=33, n\_neighbors=98...  
 [CV 4/5; 1382/1980] END leaf\_size=33, n\_neighbors=95;; score=0.584 total time=0.1s  
 [CV 5/5; 1382/1980] START leaf\_size=33, n\_neighbors=95...  
 [CV 2/5; 1381/1980] END leaf\_size=33, n\_neighbors=94;; score=0.600 total time=0.0s  
 [CV 3/5; 1381/1980] START leaf\_size=33, n\_neighbors=94...  
 [CV 5/5; 1372/1980] END leaf\_size=33, n\_neighbors=85;; score=0.626 total time=0.0s  
 [CV 3/5; 1387/1980] START leaf\_size=34, n\_neighbors=1...  
 [CV 3/5; 1384/1980] END leaf\_size=33, n\_neighbors=97;; score=0.564 total time=0.0s  
 [CV 4/5; 1384/1980] START leaf\_size=33, n\_neighbors=97...  
 [CV 1/5; 1376/1980] END leaf\_size=33, n\_neighbors=89;; score=0.646 total time=0.0s  
 [CV 3/5; 1374/1980] END leaf\_size=33, n\_neighbors=87;; score=0.562 total time=0.0s  
 [CV 3/5; 1377/1980] END leaf\_size=33, n\_neighbors=90;; score=0.564 total time=0.0s  
 [CV 4/5; 1377/1980] START leaf\_size=33, n\_neighbors=90...  
 [CV 1/5; 1389/1980] START leaf\_size=34, n\_neighbors=3...  
 [CV 3/5; 1380/1980] END leaf\_size=33, n\_neighbors=93;; score=0.564 total time=0.0s  
 [CV 4/5; 1380/1980] START leaf\_size=33, n\_neighbors=93...  
 [CV 4/5; 1390/1980] START leaf\_size=34, n\_neighbors=4...  
 [CV 3/5; 1387/1980] END leaf\_size=34, n\_neighbors=1;; score=0.490 total time=0.0s  
 [CV 4/5; 1387/1980] START leaf\_size=34, n\_neighbors=1...  
 [CV 3/5; 1381/1980] END leaf\_size=33, n\_neighbors=94;; score=0.562 total time=0.0s  
 [CV 4/5; 1381/1980] START leaf\_size=33, n\_neighbors=94...  
 [CV 5/5; 1385/1980] END leaf\_size=33, n\_neighbors=98;; score=0.606 total time=0.0s  
 [CV 1/5; 1386/1980] START leaf\_size=33, n\_neighbors=99...  
 [CV 5/5; 1382/1980] END leaf\_size=33, n\_neighbors=95;; score=0.608 total time=0.0s  
 [CV 1/5; 1383/1980] START leaf\_size=33, n\_neighbors=96...  
 [CV 1/5; 1389/1980] END leaf\_size=34, n\_neighbors=3;; score=0.557 total time=0.0s  
 [CV 2/5; 1389/1980] START leaf\_size=34, n\_neighbors=3...  
 [CV 4/5; 1384/1980] END leaf\_size=33, n\_neighbors=97;; score=0.580 total time=0.0s  
 [CV 5/5; 1384/1980] START leaf\_size=33, n\_neighbors=97...  
 [CV 4/5; 1387/1980] END leaf\_size=34, n\_neighbors=1;; score=0.539 total time=0.0s

[CV 5/5; 1387/1980] START leaf\_size=34, n\_neighbors=1...  
 [CV 4/5; 1390/1980] END leaf\_size=34, n\_neighbors=4;; score=0.580 total time=0.0s  
 [CV 5/5; 1390/1980] START leaf\_size=34, n\_neighbors=4...  
 [CV 4/5; 1377/1980] END leaf\_size=33, n\_neighbors=90;; score=0.580 total time=0.0s  
 [CV 2/5; 1392/1980] START leaf\_size=34, n\_neighbors=6...  
 [CV 4/5; 1380/1980] END leaf\_size=33, n\_neighbors=93;; score=0.587 total time=0.0s  
 [CV 5/5; 1380/1980] START leaf\_size=33, n\_neighbors=93...  
 [CV 2/5; 1389/1980] END leaf\_size=34, n\_neighbors=3;; score=0.579 total time=0.0s  
 [CV 3/5; 1389/1980] START leaf\_size=34, n\_neighbors=3...  
 [CV 5/5; 1387/1980] END leaf\_size=34, n\_neighbors=1;; score=0.567 total time=0.0s  
 [CV 1/5; 1388/1980] START leaf\_size=34, n\_neighbors=2...  
 [CV 4/5; 1381/1980] END leaf\_size=33, n\_neighbors=94;; score=0.582 total time=0.0s  
 [CV 5/5; 1381/1980] START leaf\_size=33, n\_neighbors=94...  
 [CV 4/5; 1378/1980] END leaf\_size=33, n\_neighbors=91;; score=0.591 total time=0.1s  
 [CV 5/5; 1378/1980] START leaf\_size=33, n\_neighbors=91...  
 [CV 5/5; 1390/1980] END leaf\_size=34, n\_neighbors=4;; score=0.593 total time=0.0s  
 [CV 1/5; 1391/1980] START leaf\_size=34, n\_neighbors=5...  
 [CV 1/5; 1386/1980] END leaf\_size=33, n\_neighbors=99;; score=0.641 total time=0.0s  
 [CV 2/5; 1386/1980] START leaf\_size=33, n\_neighbors=99...  
 [CV 5/5; 1384/1980] END leaf\_size=33, n\_neighbors=97;; score=0.602 total time=0.0s  
 [CV 1/5; 1385/1980] START leaf\_size=33, n\_neighbors=98...  
 [CV 2/5; 1392/1980] END leaf\_size=34, n\_neighbors=6;; score=0.546 total time=0.0s  
 [CV 3/5; 1392/1980] START leaf\_size=34, n\_neighbors=6...  
 [CV 3/5; 1389/1980] END leaf\_size=34, n\_neighbors=3;; score=0.484 total time=0.0s  
 [CV 4/5; 1389/1980] START leaf\_size=34, n\_neighbors=3...  
 [CV 1/5; 1383/1980] END leaf\_size=33, n\_neighbors=96;; score=0.637 total time=0.0s  
 [CV 2/5; 1383/1980] START leaf\_size=33, n\_neighbors=96...  
 [CV 1/5; 1388/1980] END leaf\_size=34, n\_neighbors=2;; score=0.566 total time=0.0s  
 [CV 2/5; 1388/1980] START leaf\_size=34, n\_neighbors=2...  
 [CV 5/5; 1380/1980] END leaf\_size=33, n\_neighbors=93;; score=0.617 total time=0.0s  
 [CV 5/5; 1393/1980] START leaf\_size=34, n\_neighbors=7...  
 [CV 1/5; 1391/1980] END leaf\_size=34, n\_neighbors=5;; score=0.546 total time=0.0s



[CV 2/5; 1391/1980] START leaf\_size=34, n\_neighbors=5...  
 [CV 5/5; 1381/1980] END leaf\_size=33, n\_neighbors=94;; score=0.608 total time=0.0s  
 [CV 1/5; 1382/1980] START leaf\_size=33, n\_neighbors=95...  
 [CV 3/5; 1392/1980] END leaf\_size=34, n\_neighbors=6;; score=0.555 total time=0.0s  
 [CV 4/5; 1392/1980] START leaf\_size=34, n\_neighbors=6...  
 [CV 5/5; 1378/1980] END leaf\_size=33, n\_neighbors=91;; score=0.623 total time=0.0s  
 [CV 1/5; 1379/1980] START leaf\_size=33, n\_neighbors=92...  
 [CV 4/5; 1389/1980] END leaf\_size=34, n\_neighbors=3;; score=0.584 total time=0.0s  
 [CV 5/5; 1389/1980] START leaf\_size=34, n\_neighbors=3...  
 [CV 2/5; 1388/1980] END leaf\_size=34, n\_neighbors=2;; score=0.579 total time=0.0s  
 [CV 3/5; 1388/1980] START leaf\_size=34, n\_neighbors=2...  
 [CV 1/5; 1385/1980] END leaf\_size=33, n\_neighbors=98;; score=0.635 total time=0.0s  
 [CV 2/5; 1385/1980] START leaf\_size=33, n\_neighbors=98...  
 [CV 2/5; 1386/1980] END leaf\_size=33, n\_neighbors=99;; score=0.598 total time=0.0s  
 [CV 3/5; 1386/1980] START leaf\_size=33, n\_neighbors=99...  
 [CV 5/5; 1393/1980] END leaf\_size=34, n\_neighbors=7;; score=0.613 total time=0.0s  
 [CV 1/5; 1394/1980] START leaf\_size=34, n\_neighbors=8...  
 [CV 2/5; 1391/1980] END leaf\_size=34, n\_neighbors=5;; score=0.562 total time=0.0s  
 [CV 3/5; 1391/1980] START leaf\_size=34, n\_neighbors=5...  
 [CV 4/5; 1392/1980] END leaf\_size=34, n\_neighbors=6;; score=0.578 total time=0.0s  
 [CV 5/5; 1392/1980] START leaf\_size=34, n\_neighbors=6...  
 [CV 5/5; 1389/1980] END leaf\_size=34, n\_neighbors=3;; score=0.593 total time=0.0s  
 [CV 1/5; 1390/1980] START leaf\_size=34, n\_neighbors=4...  
 [CV 3/5; 1388/1980] END leaf\_size=34, n\_neighbors=2;; score=0.512 total time=0.0s  
 [CV 4/5; 1388/1980] START leaf\_size=34, n\_neighbors=2...  
 [CV 1/5; 1382/1980] END leaf\_size=33, n\_neighbors=95;; score=0.644 total time=0.0s  
 [CV 2/5; 1382/1980] START leaf\_size=33, n\_neighbors=95...  
 [CV 1/5; 1379/1980] END leaf\_size=33, n\_neighbors=92;; score=0.646 total time=0.0s  
 [CV 2/5; 1379/1980] START leaf\_size=33, n\_neighbors=92...  
 [CV 3/5; 1391/1980] END leaf\_size=34, n\_neighbors=5;; score=0.536 total time=0.0s  
 [CV 4/5; 1391/1980] START leaf\_size=34, n\_neighbors=5...  
 [CV 1/5; 1394/1980] END leaf\_size=34, n\_neighbors=8;; score=0.568 total time=0.0s

[CV 2/5; 1394/1980] START leaf\_size=34, n\_neighbors=8...  
 [CV 2/5; 1385/1980] END leaf\_size=33, n\_neighbors=98;; score=0.596 total time=0.0s  
 [CV 3/5; 1385/1980] START leaf\_size=33, n\_neighbors=98...  
 [CV 4/5; 1388/1980] END leaf\_size=34, n\_neighbors=2;; score=0.571 total time=0.0s  
 [CV 5/5; 1388/1980] START leaf\_size=34, n\_neighbors=2...  
 [CV 1/5; 1390/1980] END leaf\_size=34, n\_neighbors=4;; score=0.562 total time=0.0s  
 [CV 2/5; 1390/1980] START leaf\_size=34, n\_neighbors=4...  
 [CV 5/5; 1392/1980] END leaf\_size=34, n\_neighbors=6;; score=0.582 total time=0.0s  
 [CV 1/5; 1393/1980] START leaf\_size=34, n\_neighbors=7...  
 [CV 2/5; 1383/1980] END leaf\_size=33, n\_neighbors=96;; score=0.598 total time=0.1s  
 [CV 3/5; 1383/1980] START leaf\_size=33, n\_neighbors=96...  
 [CV 4/5; 1391/1980] END leaf\_size=34, n\_neighbors=5;; score=0.589 total time=0.0s  
 [CV 5/5; 1391/1980] START leaf\_size=34, n\_neighbors=5...  
 [CV 2/5; 1394/1980] END leaf\_size=34, n\_neighbors=8;; score=0.551 total time=0.0s  
 [CV 3/5; 1394/1980] START leaf\_size=34, n\_neighbors=8...  
 [CV 5/5; 1388/1980] END leaf\_size=34, n\_neighbors=2;; score=0.574 total time=0.0s  
 [CV 3/5; 1395/1980] START leaf\_size=34, n\_neighbors=9...  
 [CV 2/5; 1390/1980] END leaf\_size=34, n\_neighbors=4;; score=0.581 total time=0.0s  
 [CV 3/5; 1390/1980] START leaf\_size=34, n\_neighbors=4...  
 [CV 2/5; 1382/1980] END leaf\_size=33, n\_neighbors=95;; score=0.603 total time=0.0s  
 [CV 3/5; 1382/1980] START leaf\_size=33, n\_neighbors=95...  
 [CV 1/5; 1393/1980] END leaf\_size=34, n\_neighbors=7;; score=0.568 total time=0.0s  
 [CV 2/5; 1393/1980] START leaf\_size=34, n\_neighbors=7...  
 [CV 3/5; 1385/1980] END leaf\_size=33, n\_neighbors=98;; score=0.562 total time=0.0s  
 [CV 4/5; 1385/1980] START leaf\_size=33, n\_neighbors=98...  
 [CV 2/5; 1379/1980] END leaf\_size=33, n\_neighbors=92;; score=0.598 total time=0.0s  
 [CV 1/5; 1397/1980] START leaf\_size=34, n\_neighbors=11...  
 [CV 5/5; 1391/1980] END leaf\_size=34, n\_neighbors=5;; score=0.591 total time=0.0s  
 [CV 1/5; 1392/1980] START leaf\_size=34, n\_neighbors=6...  
 [CV 3/5; 1394/1980] END leaf\_size=34, n\_neighbors=8;; score=0.551 total time=0.0s  
 [CV 4/5; 1394/1980] START leaf\_size=34, n\_neighbors=8...  
 [CV 3/5; 1390/1980] END leaf\_size=34, n\_neighbors=4;; score=0.544 total time=0.0s

[CV 3/5; 1386/1980] END leaf\_size=33, n\_neighbors=99;; score=0.566 total time=0.1s  
 [CV 4/5; 1386/1980] START leaf\_size=33, n\_neighbors=99...  
 [CV 4/5; 1398/1980] START leaf\_size=34, n\_neighbors=12...  
 [CV 2/5; 1393/1980] END leaf\_size=34, n\_neighbors=7;; score=0.559 total time=0.0s  
 [CV 3/5; 1393/1980] START leaf\_size=34, n\_neighbors=7...  
 [CV 1/5; 1397/1980] END leaf\_size=34, n\_neighbors=11;; score=0.624 total time=0.0s  
 [CV 2/5; 1397/1980] START leaf\_size=34, n\_neighbors=11...  
 [CV 3/5; 1395/1980] END leaf\_size=34, n\_neighbors=9;; score=0.559 total time=0.0s  
 [CV 4/5; 1395/1980] START leaf\_size=34, n\_neighbors=9...  
 [CV 4/5; 1385/1980] END leaf\_size=33, n\_neighbors=98;; score=0.584 total time=0.0s  
 [CV 2/5; 1400/1980] START leaf\_size=34, n\_neighbors=14...  
 [CV 1/5; 1392/1980] END leaf\_size=34, n\_neighbors=6;; score=0.570 total time=0.0s  
 [CV 3/5; 1383/1980] END leaf\_size=33, n\_neighbors=96;; score=0.564 total time=0.0s  
 [CV 4/5; 1383/1980] START leaf\_size=33, n\_neighbors=96...  
 [CV 5/5; 1401/1980] START leaf\_size=34, n\_neighbors=15...  
 [CV 4/5; 1394/1980] END leaf\_size=34, n\_neighbors=8;; score=0.617 total time=0.0s  
 [CV 5/5; 1394/1980] START leaf\_size=34, n\_neighbors=8...  
 [CV 3/5; 1382/1980] END leaf\_size=33, n\_neighbors=95;; score=0.566 total time=0.0s  
 [CV 3/5; 1403/1980] START leaf\_size=34, n\_neighbors=17...  
 [CV 4/5; 1398/1980] END leaf\_size=34, n\_neighbors=12;; score=0.576 total time=0.0s  
 [CV 5/5; 1398/1980] START leaf\_size=34, n\_neighbors=12...  
 [CV 3/5; 1393/1980] END leaf\_size=34, n\_neighbors=7;; score=0.551 total time=0.0s  
 [CV 4/5; 1393/1980] START leaf\_size=34, n\_neighbors=7...  
 [CV 2/5; 1397/1980] END leaf\_size=34, n\_neighbors=11;; score=0.579 total time=0.0s  
 [CV 3/5; 1397/1980] START leaf\_size=34, n\_neighbors=11...  
 [CV 2/5; 1400/1980] END leaf\_size=34, n\_neighbors=14;; score=0.572 total time=0.0s  
 [CV 3/5; 1400/1980] START leaf\_size=34, n\_neighbors=14...  
 [CV 5/5; 1394/1980] END leaf\_size=34, n\_neighbors=8;; score=0.608 total time=0.0s  
 [CV 1/5; 1395/1980] START leaf\_size=34, n\_neighbors=9...  
 [CV 5/5; 1401/1980] END leaf\_size=34, n\_neighbors=15;; score=0.615 total time=0.0s  
 [CV 1/5; 1402/1980] START leaf\_size=34, n\_neighbors=16...  
 [CV 3/5; 1403/1980] END leaf\_size=34, n\_neighbors=17;; score=0.564 total time=0.0s

[CV 4/5; 1403/1980] START leaf\_size=34, n\_neighbors=17...  
 [CV 4/5; 1386/1980] END leaf\_size=33, n\_neighbors=99;; score=0.589 total time=0.0s  
 [CV 5/5; 1386/1980] START leaf\_size=33, n\_neighbors=99...  
 [CV 5/5; 1398/1980] END leaf\_size=34, n\_neighbors=12;; score=0.613 total time=0.0s  
 [CV 1/5; 1399/1980] START leaf\_size=34, n\_neighbors=13...  
 [CV 4/5; 1393/1980] END leaf\_size=34, n\_neighbors=7;; score=0.584 total time=0.0s  
 [CV 4/5; 1395/1980] END leaf\_size=34, n\_neighbors=9;; score=0.589 total time=0.0s  
 [CV 5/5; 1395/1980] START leaf\_size=34, n\_neighbors=9...  
 [CV 3/5; 1397/1980] END leaf\_size=34, n\_neighbors=11;; score=0.551 total time=0.0s  
 [CV 4/5; 1397/1980] START leaf\_size=34, n\_neighbors=11...  
 [CV 3/5; 1400/1980] END leaf\_size=34, n\_neighbors=14;; score=0.544 total time=0.0s  
 [CV 4/5; 1400/1980] START leaf\_size=34, n\_neighbors=14...  
 [CV 1/5; 1405/1980] START leaf\_size=34, n\_neighbors=19...  
 [CV 1/5; 1395/1980] END leaf\_size=34, n\_neighbors=9;; score=0.592 total time=0.0s  
 [CV 2/5; 1395/1980] START leaf\_size=34, n\_neighbors=9...  
 [CV 4/5; 1403/1980] END leaf\_size=34, n\_neighbors=17;; score=0.580 total time=0.0s  
 [CV 5/5; 1403/1980] START leaf\_size=34, n\_neighbors=17...  
 [CV 1/5; 1399/1980] END leaf\_size=34, n\_neighbors=13;; score=0.633 total time=0.0s  
 [CV 2/5; 1399/1980] START leaf\_size=34, n\_neighbors=13...  
 [CV 4/5; 1400/1980] END leaf\_size=34, n\_neighbors=14;; score=0.584 total time=0.0s  
 [CV 5/5; 1400/1980] START leaf\_size=34, n\_neighbors=14...  
 [CV 5/5; 1386/1980] END leaf\_size=33, n\_neighbors=99;; score=0.610 total time=0.0s  
 [CV 1/5; 1387/1980] START leaf\_size=34, n\_neighbors=1...  
 [CV 4/5; 1383/1980] END leaf\_size=33, n\_neighbors=96;; score=0.582 total time=0.1s  
 [CV 5/5; 1383/1980] START leaf\_size=33, n\_neighbors=96...  
 [CV 1/5; 1405/1980] END leaf\_size=34, n\_neighbors=19;; score=0.637 total time=0.0s  
 [CV 2/5; 1405/1980] START leaf\_size=34, n\_neighbors=19...  
 [CV 5/5; 1403/1980] END leaf\_size=34, n\_neighbors=17;; score=0.610 total time=0.0s  
 [CV 1/5; 1404/1980] START leaf\_size=34, n\_neighbors=18...  
 [CV 5/5; 1400/1980] END leaf\_size=34, n\_neighbors=14;; score=0.606 total time=0.0s  
 [CV 1/5; 1401/1980] START leaf\_size=34, n\_neighbors=15...  
 [CV 1/5; 1387/1980] END leaf\_size=34, n\_neighbors=1;; score=0.516 total time=0.0s

[CV 2/5; 1387/1980] START leaf\_size=34, n\_neighbors=1...  
 [CV 5/5; 1395/1980] END leaf\_size=34, n\_neighbors=9;; score=0.613 total time=0.1s  
 [CV 1/5; 1396/1980] START leaf\_size=34, n\_neighbors=10...  
 [CV 1/5; 1402/1980] END leaf\_size=34, n\_neighbors=16;; score=0.637 total time=0.1s  
 [CV 2/5; 1402/1980] START leaf\_size=34, n\_neighbors=16...  
 [CV 2/5; 1399/1980] END leaf\_size=34, n\_neighbors=13;; score=0.570 total time=0.0s  
 [CV 3/5; 1399/1980] START leaf\_size=34, n\_neighbors=13...  
 [CV 2/5; 1395/1980] END leaf\_size=34, n\_neighbors=9;; score=0.570 total time=0.0s  
 [CV 2/5; 1405/1980] END leaf\_size=34, n\_neighbors=19;; score=0.583 total time=0.0s  
 [CV 3/5; 1405/1980] START leaf\_size=34, n\_neighbors=19...  
 [CV 1/5; 1404/1980] END leaf\_size=34, n\_neighbors=18;; score=0.635 total time=0.0s  
 [CV 2/5; 1404/1980] START leaf\_size=34, n\_neighbors=18...  
 [CV 2/5; 1387/1980] END leaf\_size=34, n\_neighbors=1;; score=0.568 total time=0.0s  
 [CV 4/5; 1406/1980] START leaf\_size=34, n\_neighbors=20...  
 [CV 1/5; 1401/1980] END leaf\_size=34, n\_neighbors=15;; score=0.637 total time=0.0s  
  
 [CV 2/5; 1401/1980] START leaf\_size=34, n\_neighbors=15...  
 [CV 2/5; 1408/1980] START leaf\_size=34, n\_neighbors=22...  
 [CV 4/5; 1397/1980] END leaf\_size=34, n\_neighbors=11;; score=0.589 total time=0.1s  
 [CV 5/5; 1397/1980] START leaf\_size=34, n\_neighbors=11...  
 [CV 3/5; 1405/1980] END leaf\_size=34, n\_neighbors=19;; score=0.551 total time=0.0s  
 [CV 4/5; 1405/1980] START leaf\_size=34, n\_neighbors=19...  
 [CV 2/5; 1401/1980] END leaf\_size=34, n\_neighbors=15;; score=0.570 total time=0.0s  
 [CV 3/5; 1401/1980] START leaf\_size=34, n\_neighbors=15...  
 [CV 3/5; 1399/1980] END leaf\_size=34, n\_neighbors=13;; score=0.553 total time=0.0s  
 [CV 4/5; 1399/1980] START leaf\_size=34, n\_neighbors=13...  
 [CV 2/5; 1404/1980] END leaf\_size=34, n\_neighbors=18;; score=0.590 total time=0.0s  
 [CV 3/5; 1404/1980] START leaf\_size=34, n\_neighbors=18...  
 [CV 5/5; 1383/1980] END leaf\_size=33, n\_neighbors=96;; score=0.604 total time=0.1s  
 [CV 1/5; 1384/1980] START leaf\_size=33, n\_neighbors=97...  
 [CV 2/5; 1408/1980] END leaf\_size=34, n\_neighbors=22;; score=0.587 total time=0.0s  
 [CV 3/5; 1408/1980] START leaf\_size=34, n\_neighbors=22...  
 [CV 4/5; 1406/1980] END leaf\_size=34, n\_neighbors=20;; score=0.600 total time=0.0s

[CV 5/5; 1406/1980] START leaf\_size=34, n\_neighbors=20...  
 [CV 5/5; 1397/1980] END leaf\_size=34, n\_neighbors=11;; score=0.606 total time=0.0s  
 [CV 1/5; 1398/1980] START leaf\_size=34, n\_neighbors=12...  
 [CV 2/5; 1402/1980] END leaf\_size=34, n\_neighbors=16;; score=0.575 total time=0.0s  
 [CV 3/5; 1402/1980] START leaf\_size=34, n\_neighbors=16...  
 [CV 4/5; 1405/1980] END leaf\_size=34, n\_neighbors=19;; score=0.589 total time=0.0s  
 [CV 5/5; 1405/1980] START leaf\_size=34, n\_neighbors=19...  
 [CV 1/5; 1396/1980] END leaf\_size=34, n\_neighbors=10;; score=0.611 total time=0.1s  
 [CV 2/5; 1396/1980] START leaf\_size=34, n\_neighbors=10...  
 [CV 3/5; 1401/1980] END leaf\_size=34, n\_neighbors=15;; score=0.557 total time=0.0s  
 [CV 4/5; 1401/1980] START leaf\_size=34, n\_neighbors=15...  
 [CV 4/5; 1399/1980] END leaf\_size=34, n\_neighbors=13;; score=0.574 total time=0.0s  
 [CV 5/5; 1399/1980] START leaf\_size=34, n\_neighbors=13...  
 [CV 5/5; 1406/1980] END leaf\_size=34, n\_neighbors=20;; score=0.632 total time=0.0s  
 [CV 1/5; 1407/1980] START leaf\_size=34, n\_neighbors=21...  
 [CV 3/5; 1408/1980] END leaf\_size=34, n\_neighbors=22;; score=0.555 total time=0.0s  
 [CV 4/5; 1408/1980] START leaf\_size=34, n\_neighbors=22...  
 [CV 1/5; 1398/1980] END leaf\_size=34, n\_neighbors=12;; score=0.648 total time=0.0s  
 [CV 2/5; 1398/1980] START leaf\_size=34, n\_neighbors=12...  
 [CV 1/5; 1384/1980] END leaf\_size=33, n\_neighbors=97;; score=0.641 total time=0.0s  
 [CV 5/5; 1409/1980] START leaf\_size=34, n\_neighbors=23...  
 [CV 3/5; 1404/1980] END leaf\_size=34, n\_neighbors=18;; score=0.555 total time=0.0s  
 [CV 4/5; 1401/1980] END leaf\_size=34, n\_neighbors=15;; score=0.584 total time=0.0s  
 [CV 4/5; 1404/1980] START leaf\_size=34, n\_neighbors=18...  
 [CV 5/5; 1399/1980] END leaf\_size=34, n\_neighbors=13;; score=0.591 total time=0.0s  
 [CV 1/5; 1400/1980] START leaf\_size=34, n\_neighbors=14...  
 [CV 3/5; 1411/1980] START leaf\_size=34, n\_neighbors=25...  
 [CV 3/5; 1402/1980] END leaf\_size=34, n\_neighbors=16;; score=0.557 total time=0.0s  
 [CV 4/5; 1402/1980] START leaf\_size=34, n\_neighbors=16...  
 [CV 1/5; 1407/1980] END leaf\_size=34, n\_neighbors=21;; score=0.626 total time=0.0s  
 [CV 2/5; 1407/1980] START leaf\_size=34, n\_neighbors=21...  
 [CV 4/5; 1408/1980] END leaf\_size=34, n\_neighbors=22;; score=0.600 total time=0.0s

```

[CV 5/5; 1408/1980] START leaf_size=34,
n_neighbors=22...[CV 2/5; 1396/1980] END leaf_size=34,
n_neighbors=10;; score=0.568 total time= 0.0s

[CV 3/5; 1396/1980] START leaf_size=34, n_neighbors=10...
[CV 5/5; 1409/1980] END leaf_size=34, n_neighbors=23;; score=0.643 total time=
0.0s
[CV 1/5; 1410/1980] START leaf_size=34, n_neighbors=24...
[CV 3/5; 1411/1980] END leaf_size=34, n_neighbors=25;; score=0.557 total time=
0.0s
[CV 4/5; 1411/1980] START leaf_size=34, n_neighbors=25...
[CV 4/5; 1404/1980] END leaf_size=34, n_neighbors=18;; score=0.600 total time=
0.0s[CV 1/5; 1400/1980] END leaf_size=34, n_neighbors=14;; score=0.644 total
time= 0.0s
[CV 4/5; 1402/1980] END leaf_size=34, n_neighbors=16;; score=0.584 total time=
0.0s
[CV 5/5; 1408/1980] END leaf_size=34, n_neighbors=22;; score=0.628 total time=
0.0s
[CV 1/5; 1409/1980] START leaf_size=34,
n_neighbors=23...[CV 5/5; 1402/1980] START leaf_size=34,
n_neighbors=16...

[CV 1/5; 1413/1980] START leaf_size=34, n_neighbors=27...

[CV 5/5; 1404/1980] START leaf_size=34, n_neighbors=18...
[CV 2/5; 1407/1980] END leaf_size=34, n_neighbors=21;; score=0.581 total time=
0.0s
[CV 3/5; 1407/1980] START leaf_size=34, n_neighbors=21...
[CV 3/5; 1396/1980] END leaf_size=34, n_neighbors=10;; score=0.549 total time=
0.0s
[CV 4/5; 1396/1980] START leaf_size=34, n_neighbors=10...
[CV 2/5; 1398/1980] END leaf_size=34, n_neighbors=12;; score=0.581 total time=
0.1s
[CV 3/5; 1398/1980] START leaf_size=34, n_neighbors=12...
[CV 5/5; 1405/1980] END leaf_size=34, n_neighbors=19;; score=0.626 total time=
0.1s
[CV 1/5; 1406/1980] START leaf_size=34,
n_neighbors=20...[CV 1/5; 1410/1980] END leaf_size=34,
n_neighbors=24;; score=0.646 total time= 0.0s
[CV 4/5; 1411/1980] END leaf_size=34, n_neighbors=25;; score=0.587 total time=
0.0s

[CV 2/5; 1410/1980] START leaf_size=34, n_neighbors=24...
[CV 5/5; 1411/1980] START leaf_size=34, n_neighbors=25...
[CV 1/5; 1409/1980] END leaf_size=34, n_neighbors=23;; score=0.646 total time=
0.0s[CV 5/5; 1404/1980] END leaf_size=34, n_neighbors=18;; score=0.617 total
time= 0.0s[CV 1/5; 1413/1980] END leaf_size=34, n_neighbors=27;; score=0.650
total time= 0.0s

```

[CV 2/5; 1413/1980] START leaf\_size=34, n\_neighbors=27...

[CV 2/5; 1409/1980] START leaf\_size=34, n\_neighbors=23...

[CV 4/5; 1414/1980] START leaf\_size=34, n\_neighbors=28...

[CV 3/5; 1407/1980] END leaf\_size=34, n\_neighbors=21;; score=0.559 total time=0.0s

[CV 4/5; 1407/1980] START leaf\_size=34, n\_neighbors=21...

[CV 4/5; 1396/1980] END leaf\_size=34, n\_neighbors=10;; score=0.597 total time=0.0s

[CV 5/5; 1402/1980] END leaf\_size=34, n\_neighbors=16;; score=0.621 total time= 0.0s

[CV 1/5; 1403/1980] START leaf\_size=34, n\_neighbors=17...

[CV 5/5; 1396/1980] START leaf\_size=34, n\_neighbors=10...

[CV 5/5; 1411/1980] END leaf\_size=34, n\_neighbors=25;; score=0.647 total time=0.0s

[CV 1/5; 1412/1980] START leaf\_size=34, n\_neighbors=26...

[CV 2/5; 1410/1980] END leaf\_size=34, n\_neighbors=24;; score=0.596 total time=0.0s

[CV 3/5; 1410/1980] START leaf\_size=34, n\_neighbors=24...

[CV 2/5; 1413/1980] END leaf\_size=34, n\_neighbors=27;; score=0.594 total time=0.0s

[CV 3/5; 1413/1980] START leaf\_size=34, n\_neighbors=27...

[CV 4/5; 1414/1980] END leaf\_size=34, n\_neighbors=28;; score=0.597 total time=0.0s

[CV 5/5; 1396/1980] END leaf\_size=34, n\_neighbors=10;; score=0.615 total time=0.0s

[CV 5/5; 1414/1980] START leaf\_size=34, n\_neighbors=28...

[CV 3/5; 1398/1980] END leaf\_size=34, n\_neighbors=12;; score=0.546 total time=0.0s

[CV 4/5; 1407/1980] END leaf\_size=34, n\_neighbors=21;; score=0.606 total time=0.0s

[CV 2/5; 1416/1980] START leaf\_size=34, n\_neighbors=30...

[CV 5/5; 1407/1980] START leaf\_size=34, n\_neighbors=21...

[CV 5/5; 1417/1980] START leaf\_size=34, n\_neighbors=31...

[CV 1/5; 1412/1980] END leaf\_size=34, n\_neighbors=26;; score=0.639 total time=0.0s

[CV 2/5; 1412/1980] START leaf\_size=34, n\_neighbors=26...

[CV 1/5; 1403/1980] END leaf\_size=34, n\_neighbors=17;; score=0.631 total time=0.0s

[CV 2/5; 1403/1980] START leaf\_size=34, n\_neighbors=17...

[CV 2/5; 1409/1980] END leaf\_size=34, n\_neighbors=23;; score=0.583 total time=0.0s

[CV 3/5; 1409/1980] START leaf\_size=34, n\_neighbors=23...

[CV 1/5; 1406/1980] END leaf\_size=34, n\_neighbors=20;; score=0.618 total time=0.1s

[CV 3/5; 1410/1980] END leaf\_size=34, n\_neighbors=24;; score=0.564 total time= 0.0s



[CV 4/5; 1410/1980] START leaf\_size=34, n\_neighbors=24...  
 [CV 2/5; 1406/1980] START leaf\_size=34, n\_neighbors=20...  
 [CV 3/5; 1413/1980] END leaf\_size=34, n\_neighbors=27;; score=0.568 total time=0.0s  
 [CV 4/5; 1413/1980] START leaf\_size=34, n\_neighbors=27...  
 [CV 5/5; 1414/1980] END leaf\_size=34, n\_neighbors=28;; score=0.641 total time=0.0s  
 [CV 1/5; 1415/1980] START leaf\_size=34, n\_neighbors=29...  
 [CV 2/5; 1416/1980] END leaf\_size=34, n\_neighbors=30;; score=0.607 total time=0.0s  
 [CV 3/5; 1416/1980] START leaf\_size=34, n\_neighbors=30...  
 [CV 5/5; 1407/1980] END leaf\_size=34, n\_neighbors=21;; score=0.621 total time=0.0s  
 [CV 1/5; 1408/1980] START leaf\_size=34, n\_neighbors=22...  
 [CV 2/5; 1412/1980] END leaf\_size=34, n\_neighbors=26;; score=0.600 total time=0.0s  
 [CV 3/5; 1412/1980] START leaf\_size=34, n\_neighbors=26...  
 [CV 5/5; 1417/1980] END leaf\_size=34, n\_neighbors=31;; score=0.634 total time=0.0s  
 [CV 1/5; 1418/1980] START leaf\_size=34, n\_neighbors=32...  
 [CV 2/5; 1406/1980] END leaf\_size=34, n\_neighbors=20;; score=0.583 total time=0.0s  
 [CV 3/5; 1406/1980] START leaf\_size=34, n\_neighbors=20...  
 [CV 2/5; 1403/1980] END leaf\_size=34, n\_neighbors=17;; score=0.568 total time=0.0s  
 [CV 4/5; 1413/1980] END leaf\_size=34, n\_neighbors=27;; score=0.593 total time=0.0s  
 [CV 5/5; 1413/1980] START leaf\_size=34, n\_neighbors=27...  
 [CV 4/5; 1410/1980] END leaf\_size=34, n\_neighbors=24;; score=0.597 total time=0.0s  
 [CV 5/5; 1410/1980] START leaf\_size=34, n\_neighbors=24...  
 [CV 3/5; 1419/1980] START leaf\_size=34, n\_neighbors=33...  
 [CV 3/5; 1409/1980] END leaf\_size=34, n\_neighbors=23;; score=0.557 total time=0.0s  
 [CV 3/5; 1416/1980] END leaf\_size=34, n\_neighbors=30;; score=0.579 total time=0.0s  
 [CV 4/5; 1416/1980] START leaf\_size=34, n\_neighbors=30...  
 [CV 3/5; 1412/1980] END leaf\_size=34, n\_neighbors=26;; score=0.564 total time=0.0s  
 [CV 4/5; 1412/1980] START leaf\_size=34, n\_neighbors=26...  
 [CV 1/5; 1415/1980] END leaf\_size=34, n\_neighbors=29;; score=0.646 total time=0.0s  
 [CV 2/5; 1415/1980] START leaf\_size=34, n\_neighbors=29...  
 [CV 1/5; 1418/1980] END leaf\_size=34, n\_neighbors=32;; score=0.639 total time=0.0s  
 [CV 2/5; 1418/1980] START leaf\_size=34, n\_neighbors=32...  
 [CV 1/5; 1408/1980] END leaf\_size=34, n\_neighbors=22;; score=0.622 total time=0.0s

[CV 4/5; 1409/1980] START leaf\_size=34, n\_neighbors=23...  
 [CV 5/5; 1413/1980] END leaf\_size=34, n\_neighbors=27;; score=0.630 total time= 0.0s  
 [CV 1/5; 1414/1980] START leaf\_size=34, n\_neighbors=28...  
 [CV 1/5; 1421/1980] START leaf\_size=34, n\_neighbors=35...  
 [CV 3/5; 1406/1980] END leaf\_size=34, n\_neighbors=20;; score=0.553 total time= 0.0s  
 [CV 4/5; 1422/1980] START leaf\_size=34, n\_neighbors=36...[CV 4/5; 1416/1980] END leaf\_size=34, n\_neighbors=30;; score=0.595 total time= 0.0s  
 [CV 5/5; 1416/1980] START leaf\_size=34, n\_neighbors=30...  
 [CV 4/5; 1412/1980] END leaf\_size=34, n\_neighbors=26;; score=0.593 total time= 0.0s  
 [CV 5/5; 1412/1980] START leaf\_size=34, n\_neighbors=26...  
  
 [CV 5/5; 1410/1980] END leaf\_size=34, n\_neighbors=24;; score=0.647 total time= 0.0s  
 [CV 1/5; 1411/1980] START leaf\_size=34, n\_neighbors=25...  
 [CV 2/5; 1418/1980] END leaf\_size=34, n\_neighbors=32;; score=0.605 total time= 0.0s  
 [CV 3/5; 1418/1980] START leaf\_size=34, n\_neighbors=32...  
 [CV 2/5; 1415/1980] END leaf\_size=34, n\_neighbors=29;; score=0.600 total time= 0.0s[CV 4/5; 1409/1980] END leaf\_size=34, n\_neighbors=23;; score=0.600 total time= 0.0s  
  
 [CV 3/5; 1415/1980] START leaf\_size=34, n\_neighbors=29...  
 [CV 3/5; 1419/1980] END leaf\_size=34, n\_neighbors=33;; score=0.570 total time= 0.0s  
 [CV 2/5; 1424/1980] START leaf\_size=34, n\_neighbors=38...  
 [CV 4/5; 1419/1980] START leaf\_size=34, n\_neighbors=33...  
 [CV 1/5; 1414/1980] END leaf\_size=34, n\_neighbors=28;; score=0.650 total time= 0.0s  
 [CV 2/5; 1414/1980] START leaf\_size=34, n\_neighbors=28...  
 [CV 5/5; 1412/1980] END leaf\_size=34, n\_neighbors=26;; score=0.628 total time= 0.0s  
 [CV 5/5; 1416/1980] END leaf\_size=34, n\_neighbors=30;; score=0.632 total time= 0.0s[CV 5/5; 1425/1980] START leaf\_size=34, n\_neighbors=39...  
  
 [CV 1/5; 1417/1980] START leaf\_size=34, n\_neighbors=31...  
 [CV 4/5; 1422/1980] END leaf\_size=34, n\_neighbors=36;; score=0.600 total time= 0.0s  
 [CV 5/5; 1422/1980] START leaf\_size=34, n\_neighbors=36...  
 [CV 1/5; 1421/1980] END leaf\_size=34, n\_neighbors=35;; score=0.650 total time= 0.0s  
 [CV 2/5; 1421/1980] START leaf\_size=34, n\_neighbors=35...  
 [CV 3/5; 1418/1980] END leaf\_size=34, n\_neighbors=32;; score=0.577 total time=

0.0s  
 [CV 4/5; 1418/1980] START leaf\_size=34, n\_neighbors=32...  
 [CV 2/5; 1424/1980] END leaf\_size=34, n\_neighbors=38;; score=0.613 total time=  
 0.0s  
 [CV 3/5; 1424/1980] START leaf\_size=34, n\_neighbors=38...  
 [CV 3/5; 1415/1980] END leaf\_size=34, n\_neighbors=29;; score=0.577 total time=  
 0.0s  
 [CV 4/5; 1415/1980] START leaf\_size=34, n\_neighbors=29...  
 [CV 2/5; 1414/1980] END leaf\_size=34, n\_neighbors=28;; score=0.598 total time=  
 0.0s  
 [CV 3/5; 1414/1980] START leaf\_size=34, n\_neighbors=28...  
 [CV 1/5; 1411/1980] END leaf\_size=34, n\_neighbors=25;; score=0.646 total time=  
 0.0s  
 [CV 5/5; 1425/1980] END leaf\_size=34, n\_neighbors=39;; score=0.636 total time=  
 0.0s [CV 2/5; 1411/1980] START leaf\_size=34,  
 n\_neighbors=25...  
  
 [CV 1/5; 1426/1980] START leaf\_size=34, n\_neighbors=40...  
 [CV 1/5; 1417/1980] END leaf\_size=34, n\_neighbors=31;; score=0.644 total time=  
 0.0s  
 [CV 2/5; 1417/1980] START leaf\_size=34, n\_neighbors=31...  
 [CV 5/5; 1422/1980] END leaf\_size=34, n\_neighbors=36;; score=0.628 total time=  
 0.0s  
 [CV 1/5; 1423/1980] START leaf\_size=34, n\_neighbors=37...  
 [CV 4/5; 1419/1980] END leaf\_size=34, n\_neighbors=33;; score=0.597 total time=  
 0.0s  
 [CV 5/5; 1419/1980] START leaf\_size=34, n\_neighbors=33...  
 [CV 4/5; 1418/1980] END leaf\_size=34, n\_neighbors=32;; score=0.593 total time=  
 0.0s  
 [CV 5/5; 1418/1980] START leaf\_size=34, n\_neighbors=32...  
 [CV 3/5; 1414/1980] END leaf\_size=34, n\_neighbors=28;; score=0.568 total time=  
 0.0s  
 [CV 3/5; 1424/1980] END leaf\_size=34, n\_neighbors=38;; score=0.566 total time=  
 0.0s [CV 3/5; 1427/1980] START leaf\_size=34,  
 n\_neighbors=41...  
  
 [CV 4/5; 1424/1980] START leaf\_size=34, n\_neighbors=38...  
 [CV 4/5; 1415/1980] END leaf\_size=34, n\_neighbors=29;; score=0.600 total time=  
 0.0s  
 [CV 5/5; 1415/1980] START leaf\_size=34, n\_neighbors=29...  
 [CV 1/5; 1426/1980] END leaf\_size=34, n\_neighbors=40;; score=0.661 total time=  
 0.0s [CV 2/5; 1417/1980] END leaf\_size=34, n\_neighbors=31;; score=0.603 total  
 time= 0.0s  
  
 [CV 3/5; 1417/1980] START leaf\_size=34, n\_neighbors=31...  
 [CV 2/5; 1426/1980] START leaf\_size=34, n\_neighbors=40...  
 [CV 1/5; 1423/1980] END leaf\_size=34, n\_neighbors=37;; score=0.657 total time=  
 0.0s

[CV 2/5; 1423/1980] START leaf\_size=34, n\_neighbors=37...  
 [CV 2/5; 1421/1980] END leaf\_size=34, n\_neighbors=35;; score=0.607 total time=0.1s  
 [CV 3/5; 1421/1980] START leaf\_size=34, n\_neighbors=35...  
 [CV 5/5; 1418/1980] END leaf\_size=34, n\_neighbors=32;; score=0.628 total time=0.0s  
 [CV 1/5; 1419/1980] START leaf\_size=34, n\_neighbors=33...  
 [CV 4/5; 1424/1980] END leaf\_size=34, n\_neighbors=38;; score=0.602 total time=0.0s  
 [CV 5/5; 1424/1980] START leaf\_size=34, n\_neighbors=38...  
 [CV 3/5; 1427/1980] END leaf\_size=34, n\_neighbors=41;; score=0.568 total time=0.0s  
 [CV 4/5; 1427/1980] START leaf\_size=34, n\_neighbors=41...  
 [CV 2/5; 1411/1980] END leaf\_size=34, n\_neighbors=25;; score=0.598 total time=0.0s  
 [CV 1/5; 1429/1980] START leaf\_size=34, n\_neighbors=43...  
 [CV 5/5; 1419/1980] END leaf\_size=34, n\_neighbors=33;; score=0.630 total time=0.0s  
 [CV 1/5; 1420/1980] START leaf\_size=34, n\_neighbors=34...  
 [CV 2/5; 1426/1980] END leaf\_size=34, n\_neighbors=40;; score=0.611 total time=0.0s  
 [CV 3/5; 1426/1980] START leaf\_size=34, n\_neighbors=40...  
 [CV 5/5; 1415/1980] END leaf\_size=34, n\_neighbors=29;; score=0.639 total time=0.0s  
 [CV 3/5; 1417/1980] END leaf\_size=34, n\_neighbors=31;; score=0.570 total time= 0.0s  
  
 [CV 4/5; 1417/1980] START leaf\_size=34, n\_neighbors=31...  
 [CV 1/5; 1416/1980] START leaf\_size=34, n\_neighbors=30...  
 [CV 2/5; 1423/1980] END leaf\_size=34, n\_neighbors=37;; score=0.607 total time=0.0s  
 [CV 3/5; 1423/1980] START leaf\_size=34, n\_neighbors=37...  
 [CV 3/5; 1421/1980] END leaf\_size=34, n\_neighbors=35;; score=0.572 total time=0.0s  
 [CV 4/5; 1421/1980] START leaf\_size=34, n\_neighbors=35...  
 [CV 5/5; 1424/1980] END leaf\_size=34, n\_neighbors=38;; score=0.634 total time=0.0s  
 [CV 1/5; 1425/1980] START leaf\_size=34, n\_neighbors=39...  
 [CV 4/5; 1427/1980] END leaf\_size=34, n\_neighbors=41;; score=0.610 total time=0.0s  
 [CV 5/5; 1427/1980] START leaf\_size=34, n\_neighbors=41...  
 [CV 1/5; 1419/1980] END leaf\_size=34, n\_neighbors=33;; score=0.646 total time=0.0s  
 [CV 2/5; 1419/1980] START leaf\_size=34, n\_neighbors=33...  
 [CV 3/5; 1426/1980] END leaf\_size=34, n\_neighbors=40;; score=0.572 total time=0.0s  
 [CV 4/5; 1426/1980] START leaf\_size=34, n\_neighbors=40...  
 [CV 4/5; 1417/1980] END leaf\_size=34, n\_neighbors=31;; score=0.595 total time=0.0s

[CV 3/5; 1423/1980] END leaf\_size=34, n\_neighbors=37;; score=0.568 total time=0.0s  
 [CV 4/5; 1423/1980] START leaf\_size=34, n\_neighbors=37...  
 [CV 4/5; 1430/1980] START leaf\_size=34, n\_neighbors=44...  
 [CV 1/5; 1420/1980] END leaf\_size=34, n\_neighbors=34;; score=0.644 total time=0.0s  
 [CV 2/5; 1420/1980] START leaf\_size=34, n\_neighbors=34...  
 [CV 1/5; 1429/1980] END leaf\_size=34, n\_neighbors=43;; score=0.674 total time=0.0s  
 [CV 2/5; 1429/1980] START leaf\_size=34, n\_neighbors=43...  
 [CV 1/5; 1416/1980] END leaf\_size=34, n\_neighbors=30;; score=0.639 total time=0.0s  
 [CV 2/5; 1432/1980] START leaf\_size=34, n\_neighbors=46...  
 [CV 1/5; 1425/1980] END leaf\_size=34, n\_neighbors=39;; score=0.654 total time=0.0s  
 [CV 2/5; 1425/1980] START leaf\_size=34, n\_neighbors=39...  
 [CV 2/5; 1419/1980] END leaf\_size=34, n\_neighbors=33;; score=0.607 total time=0.0s  
 [CV 5/5; 1427/1980] END leaf\_size=34, n\_neighbors=41;; score=0.619 total time=0.0s  
 [CV 1/5; 1428/1980] START leaf\_size=34, n\_neighbors=42...  
 [CV 4/5; 1421/1980] END leaf\_size=34, n\_neighbors=35;; score=0.604 total time=0.0s  
 [CV 5/5; 1421/1980] START leaf\_size=34, n\_neighbors=35...  
 [CV 5/5; 1433/1980] START leaf\_size=34, n\_neighbors=47...  
 [CV 4/5; 1426/1980] END leaf\_size=34, n\_neighbors=40;; score=0.595 total time=0.0s  
 [CV 5/5; 1426/1980] START leaf\_size=34, n\_neighbors=40...  
 [CV 4/5; 1430/1980] END leaf\_size=34, n\_neighbors=44;; score=0.597 total time=0.0s  
 [CV 5/5; 1430/1980] START leaf\_size=34, n\_neighbors=44...  
 [CV 4/5; 1423/1980] END leaf\_size=34, n\_neighbors=37;; score=0.610 total time=0.0s  
 [CV 5/5; 1423/1980] START leaf\_size=34, n\_neighbors=37...  
 [CV 2/5; 1425/1980] END leaf\_size=34, n\_neighbors=39;; score=0.609 total time=0.0s  
 [CV 3/5; 1425/1980] START leaf\_size=34, n\_neighbors=39...  
 [CV 1/5; 1428/1980] END leaf\_size=34, n\_neighbors=42;; score=0.667 total time=0.0s  
 [CV 2/5; 1428/1980] START leaf\_size=34, n\_neighbors=42...  
 [CV 5/5; 1433/1980] END leaf\_size=34, n\_neighbors=47;; score=0.623 total time=0.0s  
 [CV 1/5; 1434/1980] START leaf\_size=34, n\_neighbors=48...  
 [CV 5/5; 1426/1980] END leaf\_size=34, n\_neighbors=40;; score=0.617 total time=0.0s  
 [CV 1/5; 1427/1980] START leaf\_size=34, n\_neighbors=41...  
 [CV 5/5; 1421/1980] END leaf\_size=34, n\_neighbors=35;; score=0.639 total time=0.0s

[CV 1/5; 1422/1980] START leaf\_size=34, n\_neighbors=36...  
 [CV 2/5; 1432/1980] END leaf\_size=34, n\_neighbors=46;; score=0.616 total time=0.0s  
 [CV 3/5; 1432/1980] START leaf\_size=34, n\_neighbors=46...  
 [CV 5/5; 1423/1980] END leaf\_size=34, n\_neighbors=37;; score=0.628 total time=0.0s  
 [CV 1/5; 1424/1980] START leaf\_size=34, n\_neighbors=38...  
 [CV 5/5; 1430/1980] END leaf\_size=34, n\_neighbors=44;; score=0.615 total time=0.0s  
 [CV 1/5; 1431/1980] START leaf\_size=34, n\_neighbors=45...  
 [CV 2/5; 1420/1980] END leaf\_size=34, n\_neighbors=34;; score=0.600 total time=0.0s  
 [CV 2/5; 1429/1980] END leaf\_size=34, n\_neighbors=43;; score=0.616 total time=0.0s  
 [CV 3/5; 1429/1980] START leaf\_size=34, n\_neighbors=43...  
  
 [CV 3/5; 1420/1980] START leaf\_size=34, n\_neighbors=34...  
 [CV 3/5; 1425/1980] END leaf\_size=34, n\_neighbors=39;; score=0.575 total time=0.0s  
 [CV 4/5; 1425/1980] START leaf\_size=34, n\_neighbors=39...  
 [CV 2/5; 1428/1980] END leaf\_size=34, n\_neighbors=42;; score=0.618 total time=0.0s  
 [CV 3/5; 1428/1980] START leaf\_size=34, n\_neighbors=42...  
 [CV 1/5; 1427/1980] END leaf\_size=34, n\_neighbors=41;; score=0.665 total time=0.0s  
 [CV 2/5; 1427/1980] START leaf\_size=34, n\_neighbors=41...  
 [CV 1/5; 1434/1980] END leaf\_size=34, n\_neighbors=48;; score=0.672 total time=0.0s  
 [CV 2/5; 1434/1980] START leaf\_size=34, n\_neighbors=48...  
 [CV 1/5; 1424/1980] END leaf\_size=34, n\_neighbors=38;; score=0.652 total time=0.0s  
 [CV 1/5; 1431/1980] END leaf\_size=34, n\_neighbors=45;; score=0.678 total time=0.0s  
 [CV 2/5; 1431/1980] START leaf\_size=34, n\_neighbors=45...  
 [CV 3/5; 1435/1980] START leaf\_size=34, n\_neighbors=49...  
 [CV 1/5; 1422/1980] END leaf\_size=34, n\_neighbors=36;; score=0.644 total time=0.0s  
 [CV 2/5; 1422/1980] START leaf\_size=34, n\_neighbors=36...  
 [CV 3/5; 1432/1980] END leaf\_size=34, n\_neighbors=46;; score=0.572 total time=0.0s  
 [CV 4/5; 1432/1980] START leaf\_size=34, n\_neighbors=46...  
 [CV 4/5; 1425/1980] END leaf\_size=34, n\_neighbors=39;; score=0.602 total time=0.0s  
 [CV 3/5; 1429/1980] END leaf\_size=34, n\_neighbors=43;; score=0.566 total time=0.0s  
 [CV 4/5; 1429/1980] START leaf\_size=34, n\_neighbors=43...  
 [CV 3/5; 1428/1980] END leaf\_size=34, n\_neighbors=42;; score=0.564 total time=0.0s  
 [CV 4/5; 1428/1980] START leaf\_size=34, n\_neighbors=42...

[CV 2/5; 1427/1980] END leaf\_size=34, n\_neighbors=41;; score=0.618 total time=0.0s  
 [CV 1/5; 1437/1980] START leaf\_size=34, n\_neighbors=51...  
 [CV 3/5; 1420/1980] END leaf\_size=34, n\_neighbors=34;; score=0.577 total time=0.0s  
 [CV 2/5; 1434/1980] END leaf\_size=34, n\_neighbors=48;; score=0.609 total time= 0.0s  
 [CV 3/5; 1434/1980] START leaf\_size=34, n\_neighbors=48...  
  
 [CV 4/5; 1420/1980] START leaf\_size=34, n\_neighbors=34...  
 [CV 4/5; 1438/1980] START leaf\_size=34, n\_neighbors=52...  
 [CV 2/5; 1431/1980] END leaf\_size=34, n\_neighbors=45;; score=0.611 total time=0.0s  
 [CV 3/5; 1431/1980] START leaf\_size=34, n\_neighbors=45...  
 [CV 3/5; 1435/1980] END leaf\_size=34, n\_neighbors=49;; score=0.568 total time=0.0s  
 [CV 4/5; 1435/1980] START leaf\_size=34, n\_neighbors=49...  
 [CV 4/5; 1428/1980] END leaf\_size=34, n\_neighbors=42;; score=0.608 total time=0.0s  
 [CV 5/5; 1428/1980] START leaf\_size=34, n\_neighbors=42...  
 [CV 1/5; 1437/1980] END leaf\_size=34, n\_neighbors=51;; score=0.680 total time=0.0s  
 [CV 2/5; 1437/1980] START leaf\_size=34, n\_neighbors=51...  
 [CV 4/5; 1429/1980] END leaf\_size=34, n\_neighbors=43;; score=0.600 total time=0.0s  
 [CV 5/5; 1429/1980] START leaf\_size=34, n\_neighbors=43...  
 [CV 3/5; 1434/1980] END leaf\_size=34, n\_neighbors=48;; score=0.562 total time=0.0s  
 [CV 4/5; 1434/1980] START leaf\_size=34, n\_neighbors=48...  
 [CV 4/5; 1438/1980] END leaf\_size=34, n\_neighbors=52;; score=0.597 total time=0.0s  
 [CV 5/5; 1438/1980] START leaf\_size=34, n\_neighbors=52...  
 [CV 4/5; 1432/1980] END leaf\_size=34, n\_neighbors=46;; score=0.597 total time=0.0s  
 [CV 2/5; 1422/1980] END leaf\_size=34, n\_neighbors=36;; score=0.616 total time= 0.0s  
 [CV 3/5; 1422/1980] START leaf\_size=34, n\_neighbors=36...  
 [CV 3/5; 1431/1980] END leaf\_size=34, n\_neighbors=45;; score=0.575 total time=0.0s  
 [CV 4/5; 1431/1980] START leaf\_size=34, n\_neighbors=45...  
  
 [CV 5/5; 1432/1980] START leaf\_size=34, n\_neighbors=46...  
 [CV 4/5; 1435/1980] END leaf\_size=34, n\_neighbors=49;; score=0.593 total time=0.0s  
 [CV 4/5; 1420/1980] END leaf\_size=34, n\_neighbors=34;; score=0.597 total time= 0.0s  
  
 [CV 5/5; 1420/1980] START leaf\_size=34,  
 n\_neighbors=34...[CV 5/5; 1435/1980] START leaf\_size=34,  
 n\_neighbors=49...

[CV 5/5; 1428/1980] END leaf\_size=34, n\_neighbors=42;; score=0.621 total time=0.0s  
 [CV 2/5; 1440/1980] START leaf\_size=34, n\_neighbors=54...  
 [CV 2/5; 1437/1980] END leaf\_size=34, n\_neighbors=51;; score=0.618 total time=0.0s  
 [CV 3/5; 1437/1980] START leaf\_size=34, n\_neighbors=51...  
 [CV 5/5; 1429/1980] END leaf\_size=34, n\_neighbors=43;; score=0.615 total time=0.0s  
 [CV 1/5; 1430/1980] START leaf\_size=34, n\_neighbors=44...  
 [CV 5/5; 1438/1980] END leaf\_size=34, n\_neighbors=52;; score=0.619 total time=0.0s  
 [CV 1/5; 1439/1980] START leaf\_size=34, n\_neighbors=53...  
 [CV 4/5; 1434/1980] END leaf\_size=34, n\_neighbors=48;; score=0.589 total time=0.0s  
 [CV 5/5; 1434/1980] START leaf\_size=34, n\_neighbors=48...  
 [CV 4/5; 1431/1980] END leaf\_size=34, n\_neighbors=45;; score=0.600 total time=0.0s  
 [CV 5/5; 1431/1980] START leaf\_size=34, n\_neighbors=45...  
 [CV 5/5; 1435/1980] END leaf\_size=34, n\_neighbors=49;; score=0.623 total time=0.0s  
 [CV 1/5; 1436/1980] START leaf\_size=34, n\_neighbors=50...  
 [CV 3/5; 1422/1980] END leaf\_size=34, n\_neighbors=36;; score=0.566 total time=0.0s  
 [CV 2/5; 1440/1980] END leaf\_size=34, n\_neighbors=54;; score=0.618 total time=0.0s  
 [CV 3/5; 1440/1980] START leaf\_size=34, n\_neighbors=54...  
 [CV 5/5; 1441/1980] START leaf\_size=34, n\_neighbors=55...  
 [CV 3/5; 1437/1980] END leaf\_size=34, n\_neighbors=51;; score=0.566 total time=0.0s  
 [CV 4/5; 1437/1980] START leaf\_size=34, n\_neighbors=51...  
 [CV 5/5; 1432/1980] END leaf\_size=34, n\_neighbors=46;; score=0.619 total time=0.0s  
 [CV 1/5; 1433/1980] START leaf\_size=34, n\_neighbors=47...  
 [CV 1/5; 1439/1980] END leaf\_size=34, n\_neighbors=53;; score=0.678 total time=0.0s  
 [CV 2/5; 1439/1980] START leaf\_size=34, n\_neighbors=53...  
 [CV 5/5; 1434/1980] END leaf\_size=34, n\_neighbors=48;; score=0.630 total time=0.0s  
 [CV 1/5; 1435/1980] START leaf\_size=34, n\_neighbors=49...  
 [CV 5/5; 1431/1980] END leaf\_size=34, n\_neighbors=45;; score=0.619 total time=0.0s  
 [CV 1/5; 1430/1980] END leaf\_size=34, n\_neighbors=44;; score=0.667 total time= 0.0s  
  
 [CV 1/5; 1432/1980] START leaf\_size=34, n\_neighbors=46...  
 [CV 2/5; 1430/1980] START leaf\_size=34, n\_neighbors=44...  
 [CV 5/5; 1420/1980] END leaf\_size=34, n\_neighbors=34;; score=0.634 total time=0.0s  
 [CV 3/5; 1443/1980] START leaf\_size=34, n\_neighbors=57...



[CV 1/5; 1436/1980] END leaf\_size=34, n\_neighbors=50;; score=0.678 total time=0.0s  
 [CV 2/5; 1436/1980] START leaf\_size=34, n\_neighbors=50...  
 [CV 3/5; 1440/1980] END leaf\_size=34, n\_neighbors=54;; score=0.562 total time=0.0s  
 [CV 4/5; 1440/1980] START leaf\_size=34, n\_neighbors=54...  
 [CV 2/5; 1439/1980] END leaf\_size=34, n\_neighbors=53;; score=0.611 total time=0.0s  
 [CV 4/5; 1437/1980] END leaf\_size=34, n\_neighbors=51;; score=0.602 total time=0.0s  
 [CV 3/5; 1439/1980] START leaf\_size=34, n\_neighbors=53...  
  
 [CV 5/5; 1437/1980] START leaf\_size=34, n\_neighbors=51...  
 [CV 1/5; 1435/1980] END leaf\_size=34, n\_neighbors=49;; score=0.676 total time=0.0s  
 [CV 2/5; 1435/1980] START leaf\_size=34, n\_neighbors=49...  
 [CV 1/5; 1432/1980] END leaf\_size=34, n\_neighbors=46;; score=0.672 total time=0.0s  
 [CV 1/5; 1445/1980] START leaf\_size=34, n\_neighbors=59...  
 [CV 5/5; 1441/1980] END leaf\_size=34, n\_neighbors=55;; score=0.608 total time=0.0s  
 [CV 1/5; 1442/1980] START leaf\_size=34, n\_neighbors=56...  
 [CV 1/5; 1433/1980] END leaf\_size=34, n\_neighbors=47;; score=0.676 total time=0.0s  
 [CV 2/5; 1433/1980] START leaf\_size=34, n\_neighbors=47...  
 [CV 2/5; 1436/1980] END leaf\_size=34, n\_neighbors=50;; score=0.603 total time=0.0s  
 [CV 3/5; 1436/1980] START leaf\_size=34, n\_neighbors=50...  
 [CV 2/5; 1430/1980] END leaf\_size=34, n\_neighbors=44;; score=0.613 total time=0.0s  
 [CV 3/5; 1430/1980] START leaf\_size=34, n\_neighbors=44...  
 [CV 4/5; 1440/1980] END leaf\_size=34, n\_neighbors=54;; score=0.595 total time=0.0s  
 [CV 5/5; 1440/1980] START leaf\_size=34, n\_neighbors=54...  
 [CV 3/5; 1443/1980] END leaf\_size=34, n\_neighbors=57;; score=0.559 total time=0.0s  
 [CV 4/5; 1443/1980] START leaf\_size=34, n\_neighbors=57...  
 [CV 3/5; 1439/1980] END leaf\_size=34, n\_neighbors=53;; score=0.572 total time=0.0s  
 [CV 4/5; 1439/1980] START leaf\_size=34, n\_neighbors=53...  
 [CV 5/5; 1437/1980] END leaf\_size=34, n\_neighbors=51;; score=0.621 total time=0.0s  
 [CV 1/5; 1438/1980] START leaf\_size=34, n\_neighbors=52...  
 [CV 2/5; 1435/1980] END leaf\_size=34, n\_neighbors=49;; score=0.622 total time=0.0s  
 [CV 4/5; 1446/1980] START leaf\_size=34, n\_neighbors=60...  
 [CV 1/5; 1445/1980] END leaf\_size=34, n\_neighbors=59;; score=0.670 total time=0.0s

[CV 2/5; 1445/1980] START leaf\_size=34, n\_neighbors=59...  
 [CV 1/5; 1442/1980] END leaf\_size=34, n\_neighbors=56;; score=0.670 total time=0.0s  
 [CV 2/5; 1442/1980] START leaf\_size=34, n\_neighbors=56...  
 [CV 3/5; 1436/1980] END leaf\_size=34, n\_neighbors=50;; score=0.557 total time=0.0s  
 [CV 4/5; 1436/1980] START leaf\_size=34, n\_neighbors=50...  
 [CV 5/5; 1440/1980] END leaf\_size=34, n\_neighbors=54;; score=0.608 total time=0.0s  
 [CV 1/5; 1441/1980] START leaf\_size=34, n\_neighbors=55...  
 [CV 4/5; 1439/1980] END leaf\_size=34, n\_neighbors=53;; score=0.600 total time=0.0s  
 [CV 5/5; 1439/1980] START leaf\_size=34, n\_neighbors=53...  
 [CV 1/5; 1438/1980] END leaf\_size=34, n\_neighbors=52;; score=0.676 total time=0.0s  
 [CV 2/5; 1438/1980] START leaf\_size=34, n\_neighbors=52...  
 [CV 3/5; 1430/1980] END leaf\_size=34, n\_neighbors=44;; score=0.570 total time=0.0s  
 [CV 4/5; 1446/1980] END leaf\_size=34, n\_neighbors=60;; score=0.602 total time=0.0s  
 [CV 5/5; 1446/1980] START leaf\_size=34, n\_neighbors=60...  
 [CV 2/5; 1433/1980] END leaf\_size=34, n\_neighbors=47;; score=0.611 total time=0.0s  
 [CV 2/5; 1448/1980] START leaf\_size=34, n\_neighbors=62...  
 [CV 2/5; 1445/1980] END leaf\_size=34, n\_neighbors=59;; score=0.609 total time=0.0s  
 [CV 3/5; 1445/1980] START leaf\_size=34, n\_neighbors=59...  
  
 [CV 3/5; 1433/1980] START leaf\_size=34, n\_neighbors=47...  
 [CV 4/5; 1443/1980] END leaf\_size=34, n\_neighbors=57;; score=0.597 total time=0.0s  
 [CV 5/5; 1443/1980] START leaf\_size=34, n\_neighbors=57...  
 [CV 4/5; 1436/1980] END leaf\_size=34, n\_neighbors=50;; score=0.597 total time=0.0s  
 [CV 5/5; 1436/1980] START leaf\_size=34, n\_neighbors=50...  
 [CV 2/5; 1442/1980] END leaf\_size=34, n\_neighbors=56;; score=0.609 total time=0.0s  
 [CV 5/5; 1439/1980] END leaf\_size=34, n\_neighbors=53;; score=0.613 total time=0.0s  
 [CV 1/5; 1441/1980] END leaf\_size=34, n\_neighbors=55;; score=0.667 total time=0.0s  
 [CV 1/5; 1440/1980] START leaf\_size=34, n\_neighbors=54...  
 [CV 2/5; 1441/1980] START leaf\_size=34, n\_neighbors=55...  
 [CV 3/5; 1442/1980] START leaf\_size=34, n\_neighbors=56...  
 [CV 2/5; 1438/1980] END leaf\_size=34, n\_neighbors=52;; score=0.611 total time=0.0s  
 [CV 3/5; 1438/1980] START leaf\_size=34, n\_neighbors=52...  
 [CV 5/5; 1446/1980] END leaf\_size=34, n\_neighbors=60;; score=0.604 total time=

0.0s  
[CV 1/5; 1447/1980] START leaf\_size=34, n\_neighbors=61...  
[CV 3/5; 1445/1980] END leaf\_size=34, n\_neighbors=59;; score=0.553 total time=0.0s  
[CV 4/5; 1445/1980] START leaf\_size=34, n\_neighbors=59...  
[CV 5/5; 1436/1980] END leaf\_size=34, n\_neighbors=50;; score=0.619 total time=0.0s  
[CV 5/5; 1449/1980] START leaf\_size=34, n\_neighbors=63...  
[CV 2/5; 1448/1980] END leaf\_size=34, n\_neighbors=62;; score=0.603 total time=0.0s  
[CV 3/5; 1448/1980] START leaf\_size=34, n\_neighbors=62...  
[CV 1/5; 1440/1980] END leaf\_size=34, n\_neighbors=54;; score=0.667 total time=0.0s  
[CV 2/5; 1441/1980] END leaf\_size=34, n\_neighbors=55;; score=0.618 total time=0.0s  
[CV 3/5; 1441/1980] START leaf\_size=34, n\_neighbors=55...  
[CV 3/5; 1433/1980] END leaf\_size=34, n\_neighbors=47;; score=0.572 total time=0.0s  
[CV 4/5; 1433/1980] START leaf\_size=34, n\_neighbors=47...  
[CV 3/5; 1451/1980] START leaf\_size=34, n\_neighbors=65...  
[CV 3/5; 1438/1980] END leaf\_size=34, n\_neighbors=52;; score=0.566 total time=0.0s  
[CV 5/5; 1443/1980] END leaf\_size=34, n\_neighbors=57;; score=0.610 total time=0.0s  
[CV 1/5; 1444/1980] START leaf\_size=34, n\_neighbors=58...  
[CV 1/5; 1447/1980] END leaf\_size=34, n\_neighbors=61;; score=0.665 total time=0.0s  
[CV 2/5; 1447/1980] START leaf\_size=34, n\_neighbors=61...  
[CV 3/5; 1442/1980] END leaf\_size=34, n\_neighbors=56;; score=0.551 total time=0.0s  
[CV 4/5; 1442/1980] START leaf\_size=34, n\_neighbors=56...  
[CV 4/5; 1445/1980] END leaf\_size=34, n\_neighbors=59;; score=0.604 total time=0.0s  
[CV 5/5; 1445/1980] START leaf\_size=34, n\_neighbors=59...  
[CV 1/5; 1453/1980] START leaf\_size=34, n\_neighbors=67...  
[CV 3/5; 1441/1980] END leaf\_size=34, n\_neighbors=55;; score=0.564 total time=0.0s  
[CV 4/5; 1441/1980] START leaf\_size=34, n\_neighbors=55...  
[CV 5/5; 1449/1980] END leaf\_size=34, n\_neighbors=63;; score=0.615 total time=0.0s  
[CV 1/5; 1450/1980] START leaf\_size=34, n\_neighbors=64...  
[CV 3/5; 1451/1980] END leaf\_size=34, n\_neighbors=65;; score=0.566 total time=0.0s  
[CV 4/5; 1451/1980] START leaf\_size=34, n\_neighbors=65...  
[CV 2/5; 1447/1980] END leaf\_size=34, n\_neighbors=61;; score=0.603 total time=0.0s  
[CV 3/5; 1447/1980] START leaf\_size=34, n\_neighbors=61...  
[CV 5/5; 1445/1980] END leaf\_size=34, n\_neighbors=59;; score=0.610 total time=

0.0s  
[CV 1/5; 1446/1980] START leaf\_size=34, n\_neighbors=60...  
[CV 3/5; 1448/1980] END leaf\_size=34, n\_neighbors=62;; score=0.555 total time=0.0s  
[CV 4/5; 1448/1980] START leaf\_size=34, n\_neighbors=62...  
[CV 1/5; 1444/1980] END leaf\_size=34, n\_neighbors=58;; score=0.665 total time=0.0s  
[CV 2/5; 1444/1980] START leaf\_size=34, n\_neighbors=58...  
[CV 1/5; 1453/1980] END leaf\_size=34, n\_neighbors=67;; score=0.663 total time=0.0s  
[CV 2/5; 1453/1980] START leaf\_size=34, n\_neighbors=67...  
[CV 4/5; 1442/1980] END leaf\_size=34, n\_neighbors=56;; score=0.591 total time=0.0s  
[CV 5/5; 1442/1980] START leaf\_size=34, n\_neighbors=56...  
[CV 4/5; 1433/1980] END leaf\_size=34, n\_neighbors=47;; score=0.589 total time=0.1s  
[CV 4/5; 1441/1980] END leaf\_size=34, n\_neighbors=55;; score=0.593 total time=0.0s  
[CV 4/5; 1454/1980] START leaf\_size=34, n\_neighbors=68...  
[CV 4/5; 1451/1980] END leaf\_size=34, n\_neighbors=65;; score=0.591 total time=0.0s  
[CV 2/5; 1456/1980] START leaf\_size=34, n\_neighbors=70...  
[CV 5/5; 1451/1980] START leaf\_size=34, n\_neighbors=65...  
[CV 1/5; 1450/1980] END leaf\_size=34, n\_neighbors=64;; score=0.663 total time=0.0s  
[CV 2/5; 1450/1980] START leaf\_size=34, n\_neighbors=64...  
[CV 3/5; 1447/1980] END leaf\_size=34, n\_neighbors=61;; score=0.557 total time=0.0s  
[CV 4/5; 1447/1980] START leaf\_size=34, n\_neighbors=61...  
[CV 1/5; 1446/1980] END leaf\_size=34, n\_neighbors=60;; score=0.667 total time=0.0s  
[CV 2/5; 1446/1980] START leaf\_size=34, n\_neighbors=60...  
[CV 2/5; 1444/1980] END leaf\_size=34, n\_neighbors=58;; score=0.609 total time=0.0s  
[CV 2/5; 1453/1980] END leaf\_size=34, n\_neighbors=67;; score=0.611 total time=0.0s  
[CV 3/5; 1444/1980] START leaf\_size=34, n\_neighbors=58...  
[CV 3/5; 1453/1980] START leaf\_size=34, n\_neighbors=67...  
[CV 4/5; 1454/1980] END leaf\_size=34, n\_neighbors=68;; score=0.576 total time=0.0s  
[CV 5/5; 1454/1980] START leaf\_size=34, n\_neighbors=68...  
[CV 5/5; 1451/1980] END leaf\_size=34, n\_neighbors=65;; score=0.621 total time=0.0s  
[CV 1/5; 1452/1980] START leaf\_size=34, n\_neighbors=66...  
[CV 5/5; 1442/1980] END leaf\_size=34, n\_neighbors=56;; score=0.613 total time=0.0s  
[CV 1/5; 1443/1980] START leaf\_size=34, n\_neighbors=57...  
[CV 4/5; 1448/1980] END leaf\_size=34, n\_neighbors=62;; score=0.600 total time=

```

0.0s
[CV 5/5; 1448/1980] START leaf_size=34, n_neighbors=62...
[CV 2/5; 1450/1980] END leaf_size=34, n_neighbors=64;; score=0.609 total time=
0.0s
[CV 3/5; 1450/1980] START leaf_size=34, n_neighbors=64...
[CV 2/5; 1456/1980] END leaf_size=34, n_neighbors=70;; score=0.607 total time=
0.0s
[CV 3/5; 1456/1980] START leaf_size=34, n_neighbors=70...
[CV 4/5; 1447/1980] END leaf_size=34, n_neighbors=61;; score=0.604 total time=
0.0s
[CV 5/5; 1447/1980] START leaf_size=34, n_neighbors=61...
[CV 2/5; 1446/1980] END leaf_size=34, n_neighbors=60;; score=0.605 total time=
0.0s
[CV 3/5; 1446/1980] START leaf_size=34, n_neighbors=60...
[CV 3/5; 1453/1980] END leaf_size=34, n_neighbors=67;; score=0.564 total time=
0.0s
[CV 4/5; 1453/1980] START leaf_size=34, n_neighbors=67...
[CV 5/5; 1454/1980] END leaf_size=34, n_neighbors=68;; score=0.615 total time=
0.0s[CV 1/5; 1452/1980] END leaf_size=34, n_neighbors=66;; score=0.663 total
time= 0.0s

[CV 2/5; 1452/1980] START leaf_size=34, n_neighbors=66...
[CV 1/5; 1455/1980] START leaf_size=34, n_neighbors=69...
[CV 3/5; 1450/1980] END leaf_size=34, n_neighbors=64;; score=0.562 total time=
0.0s
[CV 4/5; 1450/1980] START leaf_size=34, n_neighbors=64...
[CV 3/5; 1444/1980] END leaf_size=34, n_neighbors=58;; score=0.549 total time=
0.0s
[CV 4/5; 1444/1980] START leaf_size=34, n_neighbors=58...
[CV 1/5; 1443/1980] END leaf_size=34, n_neighbors=57;; score=0.665 total time=
0.0s
[CV 2/5; 1443/1980] START leaf_size=34, n_neighbors=57...
[CV 5/5; 1447/1980] END leaf_size=34, n_neighbors=61;; score=0.606 total time=
0.0s
[CV 1/5; 1448/1980] START leaf_size=34, n_neighbors=62...
[CV 3/5; 1456/1980] END leaf_size=34, n_neighbors=70;; score=0.559 total time=
0.0s
[CV 4/5; 1456/1980] START leaf_size=34, n_neighbors=70...
[CV 5/5; 1448/1980] END leaf_size=34, n_neighbors=62;; score=0.610 total time=
0.0s
[CV 1/5; 1449/1980] START leaf_size=34, n_neighbors=63...
[CV 3/5; 1446/1980] END leaf_size=34, n_neighbors=60;; score=0.553 total time=
0.0s
[CV 4/5; 1453/1980] END leaf_size=34, n_neighbors=67;; score=0.587 total time=
0.0s
[CV 5/5; 1453/1980] START leaf_size=34, n_neighbors=67...
[CV 5/5; 1457/1980] START leaf_size=34, n_neighbors=71...
[CV 2/5; 1452/1980] END leaf_size=34, n_neighbors=66;; score=0.609 total time=

```

0.0s  
[CV 3/5; 1452/1980] START leaf\_size=34, n\_neighbors=66...  
[CV 1/5; 1455/1980] END leaf\_size=34, n\_neighbors=69;; score=0.663 total time=0.0s  
[CV 2/5; 1455/1980] START leaf\_size=34, n\_neighbors=69...  
[CV 4/5; 1450/1980] END leaf\_size=34, n\_neighbors=64;; score=0.593 total time=0.0s  
[CV 5/5; 1450/1980] START leaf\_size=34, n\_neighbors=64...  
[CV 1/5; 1448/1980] END leaf\_size=34, n\_neighbors=62;; score=0.663 total time=0.0s  
[CV 3/5; 1459/1980] START leaf\_size=34, n\_neighbors=73...  
[CV 2/5; 1443/1980] END leaf\_size=34, n\_neighbors=57;; score=0.616 total time=0.0s  
[CV 1/5; 1461/1980] START leaf\_size=34, n\_neighbors=75...  
[CV 4/5; 1444/1980] END leaf\_size=34, n\_neighbors=58;; score=0.595 total time=0.0s  
[CV 5/5; 1444/1980] START leaf\_size=34, n\_neighbors=58...  
[CV 4/5; 1456/1980] END leaf\_size=34, n\_neighbors=70;; score=0.589 total time=0.0s  
[CV 5/5; 1456/1980] START leaf\_size=34, n\_neighbors=70...  
[CV 5/5; 1453/1980] END leaf\_size=34, n\_neighbors=67;; score=0.613 total time=0.0s  
[CV 1/5; 1454/1980] START leaf\_size=34, n\_neighbors=68...  
[CV 3/5; 1452/1980] END leaf\_size=34, n\_neighbors=66;; score=0.566 total time=0.0s  
[CV 4/5; 1452/1980] START leaf\_size=34, n\_neighbors=66...  
[CV 1/5; 1449/1980] END leaf\_size=34, n\_neighbors=63;; score=0.665 total time=0.0s  
[CV 2/5; 1449/1980] START leaf\_size=34, n\_neighbors=63...  
[CV 5/5; 1457/1980] END leaf\_size=34, n\_neighbors=71;; score=0.613 total time=0.0s  
[CV 1/5; 1458/1980] START leaf\_size=34, n\_neighbors=72...  
[CV 5/5; 1450/1980] END leaf\_size=34, n\_neighbors=64;; score=0.613 total time=0.0s  
[CV 1/5; 1451/1980] START leaf\_size=34, n\_neighbors=65...  
[CV 2/5; 1455/1980] END leaf\_size=34, n\_neighbors=69;; score=0.609 total time=0.0s  
[CV 3/5; 1455/1980] START leaf\_size=34, n\_neighbors=69...  
[CV 3/5; 1459/1980] END leaf\_size=34, n\_neighbors=73;; score=0.566 total time=0.0s  
[CV 4/5; 1459/1980] START leaf\_size=34, n\_neighbors=73...  
[CV 1/5; 1454/1980] END leaf\_size=34, n\_neighbors=68;; score=0.667 total time=0.0s  
[CV 2/5; 1454/1980] START leaf\_size=34, n\_neighbors=68...  
[CV 1/5; 1461/1980] END leaf\_size=34, n\_neighbors=75;; score=0.667 total time=0.0s  
[CV 2/5; 1461/1980] START leaf\_size=34, n\_neighbors=75...  
[CV 4/5; 1452/1980] END leaf\_size=34, n\_neighbors=66;; score=0.574 total time=

0.0s  
 [CV 5/5; 1452/1980] START leaf\_size=34, n\_neighbors=66...  
 [CV 5/5; 1456/1980] END leaf\_size=34, n\_neighbors=70;; score=0.606 total time=  
 0.0s  
 [CV 1/5; 1457/1980] START leaf\_size=34, n\_neighbors=71...  
 [CV 5/5; 1444/1980] END leaf\_size=34, n\_neighbors=58;; score=0.610 total time=  
 0.0s  
 [CV 4/5; 1462/1980] START leaf\_size=34, n\_neighbors=76...  
 [CV 1/5; 1451/1980] END leaf\_size=34, n\_neighbors=65;; score=0.663 total time=  
 0.0s  
 [CV 2/5; 1451/1980] START leaf\_size=34, n\_neighbors=65...  
 [CV 3/5; 1455/1980] END leaf\_size=34, n\_neighbors=69;; score=0.568 total time=  
 0.0s  
 [CV 4/5; 1455/1980] START leaf\_size=34, n\_neighbors=69...  
 [CV 2/5; 1449/1980] END leaf\_size=34, n\_neighbors=63;; score=0.609 total time=  
 0.0s  
 [CV 3/5; 1449/1980] START leaf\_size=34, n\_neighbors=63...  
 [CV 1/5; 1458/1980] END leaf\_size=34, n\_neighbors=72;; score=0.663 total time=  
 0.0s  
 [CV 2/5; 1458/1980] START leaf\_size=34, n\_neighbors=72...  
 [CV 4/5; 1459/1980] END leaf\_size=34, n\_neighbors=73;; score=0.591 total time=  
 0.0s  
 [CV 5/5; 1459/1980] START leaf\_size=34, n\_neighbors=73...  
 [CV 2/5; 1454/1980] END leaf\_size=34, n\_neighbors=68;; score=0.609 total time=  
 0.0s  
 [CV 3/5; 1454/1980] START leaf\_size=34, n\_neighbors=68...  
 [CV 5/5; 1452/1980] END leaf\_size=34, n\_neighbors=66;; score=0.613 total time=  
 0.0s [CV 1/5; 1457/1980] END leaf\_size=34, n\_neighbors=71;; score=0.670 total  
 time= 0.0s  
 [CV 2/5; 1457/1980] START leaf\_size=34, n\_neighbors=71...  
  
 [CV 2/5; 1461/1980] END leaf\_size=34, n\_neighbors=75;; score=0.603 total time=  
 0.0s  
 [CV 3/5; 1461/1980] START leaf\_size=34, n\_neighbors=75...  
 [CV 2/5; 1464/1980] START leaf\_size=34, n\_neighbors=78...  
 [CV 2/5; 1451/1980] END leaf\_size=34, n\_neighbors=65;; score=0.616 total time=  
 0.0s  
 [CV 4/5; 1462/1980] END leaf\_size=34, n\_neighbors=76;; score=0.578 total time=  
 0.0s  
 [CV 5/5; 1462/1980] START leaf\_size=34, n\_neighbors=76...  
 [CV 4/5; 1455/1980] END leaf\_size=34, n\_neighbors=69;; score=0.582 total time=  
 0.0s  
 [CV 5/5; 1455/1980] START leaf\_size=34, n\_neighbors=69...  
 [CV 5/5; 1465/1980] START leaf\_size=34, n\_neighbors=79...  
 [CV 3/5; 1449/1980] END leaf\_size=34, n\_neighbors=63;; score=0.562 total time=  
 0.0s  
 [CV 4/5; 1449/1980] START leaf\_size=34, n\_neighbors=63...  
 [CV 2/5; 1458/1980] END leaf\_size=34, n\_neighbors=72;; score=0.607 total time=

0.0s  
 [CV 3/5; 1458/1980] START leaf\_size=34, n\_neighbors=72...  
 [CV 5/5; 1459/1980] END leaf\_size=34, n\_neighbors=73;; score=0.628 total time=  
 0.0s  
 [CV 1/5; 1460/1980] START leaf\_size=34, n\_neighbors=74...  
 [CV 3/5; 1454/1980] END leaf\_size=34, n\_neighbors=68;; score=0.566 total time=  
 0.0s  
 [CV 3/5; 1467/1980] START leaf\_size=34, n\_neighbors=81...  
 [CV 2/5; 1457/1980] END leaf\_size=34, n\_neighbors=71;; score=0.616 total time=  
 0.0s [CV 2/5; 1464/1980] END leaf\_size=34, n\_neighbors=78;; score=0.603 total  
 time= 0.0s  
 [CV 3/5; 1464/1980] START leaf\_size=34, n\_neighbors=78...  
 [CV 5/5; 1455/1980] END leaf\_size=34, n\_neighbors=69;; score=0.621 total time=  
 0.0s  
 [CV 1/5; 1456/1980] START leaf\_size=34, n\_neighbors=70...  
  
 [CV 3/5; 1457/1980] START leaf\_size=34, n\_neighbors=71...  
 [CV 5/5; 1462/1980] END leaf\_size=34, n\_neighbors=76;; score=0.621 total time=  
 0.0s  
 [CV 5/5; 1465/1980] END leaf\_size=34, n\_neighbors=79;; score=0.619 total time=  
 0.0s  
 [CV 1/5; 1466/1980] START leaf\_size=34, n\_neighbors=80...  
 [CV 1/5; 1463/1980] START leaf\_size=34, n\_neighbors=77...  
 [CV 3/5; 1461/1980] END leaf\_size=34, n\_neighbors=75;; score=0.555 total time=  
 0.0s  
 [CV 4/5; 1461/1980] START leaf\_size=34, n\_neighbors=75...  
 [CV 3/5; 1458/1980] END leaf\_size=34, n\_neighbors=72;; score=0.562 total time=  
 0.0s  
 [CV 4/5; 1458/1980] START leaf\_size=34, n\_neighbors=72...  
 [CV 1/5; 1460/1980] END leaf\_size=34, n\_neighbors=74;; score=0.661 total time=  
 0.0s  
 [CV 2/5; 1460/1980] START leaf\_size=34, n\_neighbors=74...  
 [CV 3/5; 1467/1980] END leaf\_size=34, n\_neighbors=81;; score=0.562 total time=  
 0.0s  
 [CV 4/5; 1467/1980] START leaf\_size=34, n\_neighbors=81...  
 [CV 4/5; 1449/1980] END leaf\_size=34, n\_neighbors=63;; score=0.604 total time=  
 0.0s  
 [CV 3/5; 1464/1980] END leaf\_size=34, n\_neighbors=78;; score=0.555 total time=  
 0.0s  
 [CV 4/5; 1464/1980] START leaf\_size=34, n\_neighbors=78...  
 [CV 1/5; 1456/1980] END leaf\_size=34, n\_neighbors=70;; score=0.663 total time=  
 0.0s  
 [CV 3/5; 1457/1980] END leaf\_size=34, n\_neighbors=71;; score=0.562 total time=  
 0.0s  
 [CV 4/5; 1457/1980] START leaf\_size=34, n\_neighbors=71...  
 [CV 4/5; 1470/1980] START leaf\_size=34, n\_neighbors=84...  
 [CV 1/5; 1466/1980] END leaf\_size=34, n\_neighbors=80;; score=0.659 total time=  
 0.0s



[CV 2/5; 1466/1980] START leaf\_size=34, n\_neighbors=80...  
 [CV 1/5; 1469/1980] START leaf\_size=34, n\_neighbors=83...  
 [CV 1/5; 1463/1980] END leaf\_size=34, n\_neighbors=77;;, score=0.667 total time=0.0s  
 [CV 2/5; 1463/1980] START leaf\_size=34, n\_neighbors=77...  
 [CV 4/5; 1461/1980] END leaf\_size=34, n\_neighbors=75;;, score=0.591 total time=0.0s  
 [CV 4/5; 1458/1980] END leaf\_size=34, n\_neighbors=72;;, score=0.593 total time=0.0s  
 [CV 5/5; 1461/1980] START leaf\_size=34, n\_neighbors=75...  
  
 [CV 5/5; 1458/1980] START leaf\_size=34, n\_neighbors=72...  
 [CV 2/5; 1460/1980] END leaf\_size=34, n\_neighbors=74;;, score=0.607 total time=0.0s  
 [CV 3/5; 1460/1980] START leaf\_size=34, n\_neighbors=74...  
 [CV 4/5; 1467/1980] END leaf\_size=34, n\_neighbors=81;;, score=0.587 total time=0.0s  
 [CV 5/5; 1467/1980] START leaf\_size=34, n\_neighbors=81...  
 [CV 4/5; 1464/1980] END leaf\_size=34, n\_neighbors=78;;, score=0.571 total time=0.0s  
 [CV 5/5; 1464/1980] START leaf\_size=34, n\_neighbors=78...  
 [CV 4/5; 1457/1980] END leaf\_size=34, n\_neighbors=71;;, score=0.587 total time=0.0s  
 [CV 2/5; 1472/1980] START leaf\_size=34, n\_neighbors=86...  
 [CV 2/5; 1466/1980] END leaf\_size=34, n\_neighbors=80;;, score=0.594 total time=0.0s  
 [CV 3/5; 1466/1980] START leaf\_size=34, n\_neighbors=80...  
 [CV 4/5; 1470/1980] END leaf\_size=34, n\_neighbors=84;;, score=0.582 total time=0.0s  
 [CV 5/5; 1470/1980] START leaf\_size=34, n\_neighbors=84...  
 [CV 2/5; 1463/1980] END leaf\_size=34, n\_neighbors=77;;, score=0.605 total time=0.0s  
 [CV 3/5; 1463/1980] START leaf\_size=34, n\_neighbors=77...  
 [CV 5/5; 1458/1980] END leaf\_size=34, n\_neighbors=72;;, score=0.613 total time=0.0s  
 [CV 1/5; 1459/1980] START leaf\_size=34, n\_neighbors=73...  
 [CV 3/5; 1460/1980] END leaf\_size=34, n\_neighbors=74;;, score=0.557 total time=0.0s  
 [CV 4/5; 1460/1980] START leaf\_size=34, n\_neighbors=74...  
 [CV 5/5; 1467/1980] END leaf\_size=34, n\_neighbors=81;;, score=0.626 total time=0.0s  
 [CV 1/5; 1468/1980] START leaf\_size=34, n\_neighbors=82...  
 [CV 1/5; 1469/1980] END leaf\_size=34, n\_neighbors=83;;, score=0.650 total time=0.0s  
 [CV 2/5; 1469/1980] START leaf\_size=34, n\_neighbors=83...  
 [CV 5/5; 1461/1980] END leaf\_size=34, n\_neighbors=75;;, score=0.632 total time=0.0s  
 [CV 1/5; 1462/1980] START leaf\_size=34, n\_neighbors=76...

[CV 5/5; 1464/1980] END leaf\_size=34, n\_neighbors=78;; score=0.628 total time=0.0s  
 [CV 1/5; 1465/1980] START leaf\_size=34, n\_neighbors=79...  
 [CV 3/5; 1466/1980] END leaf\_size=34, n\_neighbors=80;; score=0.564 total time=0.0s  
 [CV 4/5; 1466/1980] START leaf\_size=34, n\_neighbors=80...  
 [CV 2/5; 1472/1980] END leaf\_size=34, n\_neighbors=86;; score=0.598 total time=0.0s  
 [CV 3/5; 1472/1980] START leaf\_size=34, n\_neighbors=86...  
 [CV 5/5; 1470/1980] END leaf\_size=34, n\_neighbors=84;; score=0.626 total time=0.0s  
 [CV 1/5; 1471/1980] START leaf\_size=34, n\_neighbors=85...  
 [CV 1/5; 1459/1980] END leaf\_size=34, n\_neighbors=73;; score=0.663 total time=0.0s  
 [CV 2/5; 1459/1980] START leaf\_size=34, n\_neighbors=73...  
 [CV 4/5; 1460/1980] END leaf\_size=34, n\_neighbors=74;; score=0.591 total time=0.0s  
 [CV 5/5; 1460/1980] START leaf\_size=34, n\_neighbors=74...  
 [CV 3/5; 1463/1980] END leaf\_size=34, n\_neighbors=77;; score=0.562 total time=0.0s  
 [CV 4/5; 1463/1980] START leaf\_size=34, n\_neighbors=77...  
 [CV 1/5; 1468/1980] END leaf\_size=34, n\_neighbors=82;; score=0.659 total time=0.0s  
 [CV 2/5; 1468/1980] START leaf\_size=34, n\_neighbors=82...  
 [CV 1/5; 1465/1980] END leaf\_size=34, n\_neighbors=79;; score=0.659 total time=0.0s  
 [CV 2/5; 1465/1980] START leaf\_size=34, n\_neighbors=79...  
 [CV 4/5; 1466/1980] END leaf\_size=34, n\_neighbors=80;; score=0.584 total time=0.0s  
 [CV 5/5; 1466/1980] START leaf\_size=34, n\_neighbors=80...  
 [CV 1/5; 1462/1980] END leaf\_size=34, n\_neighbors=76;; score=0.667 total time=0.0s  
 [CV 2/5; 1462/1980] START leaf\_size=34, n\_neighbors=76...  
 [CV 3/5; 1472/1980] END leaf\_size=34, n\_neighbors=86;; score=0.559 total time=0.0s  
 [CV 4/5; 1472/1980] START leaf\_size=34, n\_neighbors=86...  
 [CV 1/5; 1471/1980] END leaf\_size=34, n\_neighbors=85;; score=0.650 total time=0.0s  
 [CV 2/5; 1471/1980] START leaf\_size=34, n\_neighbors=85...  
 [CV 2/5; 1469/1980] END leaf\_size=34, n\_neighbors=83;; score=0.596 total time=0.0s  
 [CV 3/5; 1469/1980] START leaf\_size=34, n\_neighbors=83...  
 [CV 5/5; 1460/1980] END leaf\_size=34, n\_neighbors=74;; score=0.623 total time=0.0s  
 [CV 2/5; 1459/1980] END leaf\_size=34, n\_neighbors=73;; score=0.605 total time=0.0s  
 [CV 2/5; 1468/1980] END leaf\_size=34, n\_neighbors=82;; score=0.600 total time=0.0s

[CV 3/5; 1468/1980] START leaf\_size=34, n\_neighbors=82...  
 [CV 4/5; 1463/1980] END leaf\_size=34, n\_neighbors=77;; score=0.580 total time=0.0s  
 [CV 5/5; 1463/1980] START leaf\_size=34, n\_neighbors=77...  
 [CV 5/5; 1473/1980] START leaf\_size=34, n\_neighbors=87...  
 [CV 3/5; 1475/1980] START leaf\_size=34, n\_neighbors=89...  
 [CV 2/5; 1465/1980] END leaf\_size=34, n\_neighbors=79;; score=0.598 total time=0.0s  
 [CV 3/5; 1465/1980] START leaf\_size=34, n\_neighbors=79...  
 [CV 5/5; 1466/1980] END leaf\_size=34, n\_neighbors=80;; score=0.628 total time=0.0s  
 [CV 1/5; 1467/1980] START leaf\_size=34, n\_neighbors=81...  
 [CV 4/5; 1472/1980] END leaf\_size=34, n\_neighbors=86;; score=0.580 total time=0.0s  
 [CV 5/5; 1472/1980] START leaf\_size=34, n\_neighbors=86...  
 [CV 2/5; 1471/1980] END leaf\_size=34, n\_neighbors=85;; score=0.600 total time=0.0s  
 [CV 3/5; 1471/1980] START leaf\_size=34, n\_neighbors=85...  
 [CV 2/5; 1462/1980] END leaf\_size=34, n\_neighbors=76;; score=0.603 total time=0.0s  
 [CV 3/5; 1462/1980] START leaf\_size=34, n\_neighbors=76...  
 [CV 3/5; 1468/1980] END leaf\_size=34, n\_neighbors=82;; score=0.566 total time=0.0s  
 [CV 4/5; 1468/1980] START leaf\_size=34, n\_neighbors=82...  
 [CV 5/5; 1463/1980] END leaf\_size=34, n\_neighbors=77;; score=0.617 total time=0.0s  
 [CV 1/5; 1464/1980] START leaf\_size=34, n\_neighbors=78...  
 [CV 5/5; 1473/1980] END leaf\_size=34, n\_neighbors=87;; score=0.619 total time=0.0s  
 [CV 1/5; 1474/1980] START leaf\_size=34, n\_neighbors=88...  
 [CV 3/5; 1469/1980] END leaf\_size=34, n\_neighbors=83;; score=0.564 total time=0.0s  
 [CV 4/5; 1469/1980] START leaf\_size=34, n\_neighbors=83...  
 [CV 3/5; 1475/1980] END leaf\_size=34, n\_neighbors=89;; score=0.564 total time=0.0s  
 [CV 4/5; 1475/1980] START leaf\_size=34, n\_neighbors=89...  
 [CV 3/5; 1465/1980] END leaf\_size=34, n\_neighbors=79;; score=0.557 total time=0.0s  
 [CV 4/5; 1465/1980] START leaf\_size=34, n\_neighbors=79...  
 [CV 1/5; 1467/1980] END leaf\_size=34, n\_neighbors=81;; score=0.659 total time=0.0s  
 [CV 2/5; 1467/1980] START leaf\_size=34, n\_neighbors=81...  
 [CV 5/5; 1472/1980] END leaf\_size=34, n\_neighbors=86;; score=0.623 total time=0.0s  
 [CV 1/5; 1473/1980] START leaf\_size=34, n\_neighbors=87...  
 [CV 3/5; 1471/1980] END leaf\_size=34, n\_neighbors=85;; score=0.557 total time=0.0s  
 [CV 4/5; 1471/1980] START leaf\_size=34, n\_neighbors=85...

[CV 3/5; 1462/1980] END leaf\_size=34, n\_neighbors=76;; score=0.557 total time=0.0s  
 [CV 4/5; 1468/1980] END leaf\_size=34, n\_neighbors=82;; score=0.587 total time=0.0s  
 [CV 5/5; 1468/1980] START leaf\_size=34, n\_neighbors=82...  
 [CV 1/5; 1477/1980] START leaf\_size=34, n\_neighbors=91...  
 [CV 1/5; 1464/1980] END leaf\_size=34, n\_neighbors=78;; score=0.659 total time=0.0s  
 [CV 4/5; 1478/1980] START leaf\_size=34, n\_neighbors=92...  
 [CV 1/5; 1474/1980] END leaf\_size=34, n\_neighbors=88;; score=0.652 total time=0.0s  
 [CV 2/5; 1474/1980] START leaf\_size=34, n\_neighbors=88...  
 [CV 4/5; 1465/1980] END leaf\_size=34, n\_neighbors=79;; score=0.584 total time=0.0s  
 [CV 2/5; 1480/1980] START leaf\_size=34, n\_neighbors=94...[CV 2/5; 1467/1980] END leaf\_size=34, n\_neighbors=81;; score=0.596 total time= 0.0s  
  
 [CV 4/5; 1475/1980] END leaf\_size=34, n\_neighbors=89;; score=0.591 total time=0.0s  
 [CV 5/5; 1475/1980] START leaf\_size=34, n\_neighbors=89...  
 [CV 4/5; 1469/1980] END leaf\_size=34, n\_neighbors=83;; score=0.584 total time=0.0s  
 [CV 5/5; 1469/1980] START leaf\_size=34, n\_neighbors=83...  
 [CV 5/5; 1481/1980] START leaf\_size=34, n\_neighbors=95...  
 [CV 1/5; 1473/1980] END leaf\_size=34, n\_neighbors=87;; score=0.650 total time=0.0s  
 [CV 2/5; 1473/1980] START leaf\_size=34, n\_neighbors=87...  
 [CV 4/5; 1471/1980] END leaf\_size=34, n\_neighbors=85;; score=0.576 total time=0.0s  
 [CV 5/5; 1471/1980] START leaf\_size=34, n\_neighbors=85...  
 [CV 5/5; 1468/1980] END leaf\_size=34, n\_neighbors=82;; score=0.630 total time=0.0s  
 [CV 3/5; 1483/1980] START leaf\_size=34, n\_neighbors=97...  
 [CV 4/5; 1478/1980] END leaf\_size=34, n\_neighbors=92;; score=0.582 total time=0.0s  
 [CV 5/5; 1478/1980] START leaf\_size=34, n\_neighbors=92...  
 [CV 2/5; 1474/1980] END leaf\_size=34, n\_neighbors=88;; score=0.600 total time=0.0s  
 [CV 3/5; 1474/1980] START leaf\_size=34, n\_neighbors=88...  
 [CV 1/5; 1477/1980] END leaf\_size=34, n\_neighbors=91;; score=0.648 total time=0.0s  
 [CV 2/5; 1477/1980] START leaf\_size=34, n\_neighbors=91...  
 [CV 2/5; 1480/1980] END leaf\_size=34, n\_neighbors=94;; score=0.600 total time=0.0s  
 [CV 3/5; 1480/1980] START leaf\_size=34, n\_neighbors=94...  
 [CV 5/5; 1481/1980] END leaf\_size=34, n\_neighbors=95;; score=0.608 total time=0.0s

[CV 1/5; 1482/1980] START leaf\_size=34, n\_neighbors=96...  
 [CV 2/5; 1473/1980] END leaf\_size=34, n\_neighbors=87;; score=0.603 total time=0.0s  
 [CV 3/5; 1473/1980] START leaf\_size=34, n\_neighbors=87...  
 [CV 5/5; 1475/1980] END leaf\_size=34, n\_neighbors=89;; score=0.621 total time=0.0s  
 [CV 1/5; 1476/1980] START leaf\_size=34, n\_neighbors=90...  
 [CV 5/5; 1471/1980] END leaf\_size=34, n\_neighbors=85;; score=0.626 total time=0.0s  
 [CV 1/5; 1472/1980] START leaf\_size=34, n\_neighbors=86...  
 [CV 5/5; 1469/1980] END leaf\_size=34, n\_neighbors=83;; score=0.619 total time=0.0s  
 [CV 1/5; 1470/1980] START leaf\_size=34, n\_neighbors=84...  
 [CV 3/5; 1483/1980] END leaf\_size=34, n\_neighbors=97;; score=0.564 total time=0.0s  
 [CV 4/5; 1483/1980] START leaf\_size=34, n\_neighbors=97...  
 [CV 5/5; 1478/1980] END leaf\_size=34, n\_neighbors=92;; score=0.621 total time=0.0s  
 [CV 1/5; 1479/1980] START leaf\_size=34, n\_neighbors=93...  
 [CV 3/5; 1474/1980] END leaf\_size=34, n\_neighbors=88;; score=0.562 total time=0.0s  
 [CV 4/5; 1474/1980] START leaf\_size=34, n\_neighbors=88...  
 [CV 3/5; 1480/1980] END leaf\_size=34, n\_neighbors=94;; score=0.562 total time=0.0s  
 [CV 4/5; 1480/1980] START leaf\_size=34, n\_neighbors=94...  
 [CV 2/5; 1477/1980] END leaf\_size=34, n\_neighbors=91;; score=0.605 total time=0.0s  
 [CV 3/5; 1477/1980] START leaf\_size=34, n\_neighbors=91...  
 [CV 1/5; 1482/1980] END leaf\_size=34, n\_neighbors=96;; score=0.637 total time=0.0s  
 [CV 2/5; 1482/1980] START leaf\_size=34, n\_neighbors=96...  
 [CV 3/5; 1473/1980] END leaf\_size=34, n\_neighbors=87;; score=0.562 total time=0.0s  
 [CV 4/5; 1473/1980] START leaf\_size=34, n\_neighbors=87...  
 [CV 1/5; 1476/1980] END leaf\_size=34, n\_neighbors=90;; score=0.650 total time=0.0s  
 [CV 2/5; 1476/1980] START leaf\_size=34, n\_neighbors=90...  
 [CV 1/5; 1472/1980] END leaf\_size=34, n\_neighbors=86;; score=0.648 total time=0.0s  
 [CV 4/5; 1483/1980] END leaf\_size=34, n\_neighbors=97;; score=0.580 total time=0.0s  
 [CV 5/5; 1483/1980] START leaf\_size=34, n\_neighbors=97...  
 [CV 4/5; 1474/1980] END leaf\_size=34, n\_neighbors=88;; score=0.578 total time=0.0s  
 [CV 5/5; 1474/1980] START leaf\_size=34, n\_neighbors=88...  
 [CV 1/5; 1470/1980] END leaf\_size=34, n\_neighbors=84;; score=0.654 total time=0.0s  
 [CV 2/5; 1470/1980] START leaf\_size=34, n\_neighbors=84...

[CV 1/5; 1479/1980] END leaf\_size=34, n\_neighbors=93;; score=0.646 total time=0.0s  
 [CV 2/5; 1479/1980] START leaf\_size=34, n\_neighbors=93...  
 [CV 1/5; 1485/1980] START leaf\_size=34, n\_neighbors=99...  
 [CV 4/5; 1480/1980] END leaf\_size=34, n\_neighbors=94;; score=0.582 total time=0.0s  
 [CV 5/5; 1480/1980] START leaf\_size=34, n\_neighbors=94...  
 [CV 2/5; 1482/1980] END leaf\_size=34, n\_neighbors=96;; score=0.598 total time=0.0s  
 [CV 3/5; 1482/1980] START leaf\_size=34, n\_neighbors=96...  
 [CV 4/5; 1473/1980] END leaf\_size=34, n\_neighbors=87;; score=0.584 total time=0.0s  
 [CV 3/5; 1477/1980] END leaf\_size=34, n\_neighbors=91;; score=0.564 total time=0.0s  
 [CV 4/5; 1477/1980] START leaf\_size=34, n\_neighbors=91...  
 [CV 4/5; 1486/1980] START leaf\_size=35, n\_neighbors=1...  
 [CV 2/5; 1476/1980] END leaf\_size=34, n\_neighbors=90;; score=0.600 total time=0.0s  
 [CV 3/5; 1476/1980] START leaf\_size=34, n\_neighbors=90...  
 [CV 5/5; 1483/1980] END leaf\_size=34, n\_neighbors=97;; score=0.602 total time=0.0s  
 [CV 1/5; 1484/1980] START leaf\_size=34, n\_neighbors=98...  
 [CV 5/5; 1474/1980] END leaf\_size=34, n\_neighbors=88;; score=0.617 total time=0.0s  
 [CV 1/5; 1475/1980] START leaf\_size=34, n\_neighbors=89...  
 [CV 1/5; 1485/1980] END leaf\_size=34, n\_neighbors=99;; score=0.641 total time=0.0s  
 [CV 2/5; 1485/1980] START leaf\_size=34, n\_neighbors=99...  
 [CV 2/5; 1479/1980] END leaf\_size=34, n\_neighbors=93;; score=0.603 total time=0.0s  
 [CV 3/5; 1479/1980] START leaf\_size=34, n\_neighbors=93...  
 [CV 4/5; 1486/1980] END leaf\_size=35, n\_neighbors=1;; score=0.539 total time=0.0s  
 [CV 5/5; 1486/1980] START leaf\_size=35, n\_neighbors=1...  
 [CV 5/5; 1480/1980] END leaf\_size=34, n\_neighbors=94;; score=0.608 total time=0.0s  
 [CV 1/5; 1481/1980] START leaf\_size=34, n\_neighbors=95...  
 [CV 3/5; 1482/1980] END leaf\_size=34, n\_neighbors=96;; score=0.564 total time=0.0s  
 [CV 4/5; 1482/1980] START leaf\_size=34, n\_neighbors=96...  
 [CV 2/5; 1470/1980] END leaf\_size=34, n\_neighbors=84;; score=0.603 total time=0.0s  
 [CV 3/5; 1470/1980] START leaf\_size=34, n\_neighbors=84...  
 [CV 3/5; 1476/1980] END leaf\_size=34, n\_neighbors=90;; score=0.564 total time=0.0s  
 [CV 4/5; 1476/1980] START leaf\_size=34, n\_neighbors=90...  
 [CV 5/5; 1486/1980] END leaf\_size=35, n\_neighbors=1;; score=0.567 total time=0.0s

[CV 1/5; 1487/1980] START leaf\_size=35, n\_neighbors=2...  
 [CV 4/5; 1477/1980] END leaf\_size=34, n\_neighbors=91;; score=0.591 total time=0.0s  
 [CV 5/5; 1477/1980] START leaf\_size=34, n\_neighbors=91...  
 [CV 1/5; 1484/1980] END leaf\_size=34, n\_neighbors=98;; score=0.635 total time=0.0s  
 [CV 2/5; 1484/1980] START leaf\_size=34, n\_neighbors=98...  
 [CV 1/5; 1475/1980] END leaf\_size=34, n\_neighbors=89;; score=0.646 total time=0.0s  
 [CV 2/5; 1475/1980] START leaf\_size=34, n\_neighbors=89...  
 [CV 2/5; 1485/1980] END leaf\_size=34, n\_neighbors=99;; score=0.598 total time=0.0s  
 [CV 3/5; 1485/1980] START leaf\_size=34, n\_neighbors=99...  
 [CV 1/5; 1481/1980] END leaf\_size=34, n\_neighbors=95;; score=0.644 total time=0.0s  
 [CV 2/5; 1481/1980] START leaf\_size=34, n\_neighbors=95...  
 [CV 4/5; 1482/1980] END leaf\_size=34, n\_neighbors=96;; score=0.582 total time=0.0s  
 [CV 5/5; 1482/1980] START leaf\_size=34, n\_neighbors=96...  
 [CV 1/5; 1487/1980] END leaf\_size=35, n\_neighbors=2;; score=0.566 total time=0.0s  
 [CV 2/5; 1487/1980] START leaf\_size=35, n\_neighbors=2...  
 [CV 3/5; 1479/1980] END leaf\_size=34, n\_neighbors=93;; score=0.564 total time=0.0s  
 [CV 4/5; 1479/1980] START leaf\_size=34, n\_neighbors=93...  
 [CV 4/5; 1476/1980] END leaf\_size=34, n\_neighbors=90;; score=0.580 total time=0.0s  
 [CV 5/5; 1476/1980] START leaf\_size=34, n\_neighbors=90...  
 [CV 3/5; 1470/1980] END leaf\_size=34, n\_neighbors=84;; score=0.555 total time=0.0s  
 [CV 2/5; 1484/1980] END leaf\_size=34, n\_neighbors=98;; score=0.596 total time=0.0s  
 [CV 3/5; 1484/1980] START leaf\_size=34, n\_neighbors=98...  
 [CV 2/5; 1488/1980] START leaf\_size=35, n\_neighbors=3...  
 [CV 2/5; 1475/1980] END leaf\_size=34, n\_neighbors=89;; score=0.600 total time=0.0s  
 [CV 5/5; 1489/1980] START leaf\_size=35, n\_neighbors=4...  
 [CV 2/5; 1487/1980] END leaf\_size=35, n\_neighbors=2;; score=0.579 total time=0.0s  
 [CV 3/5; 1487/1980] START leaf\_size=35, n\_neighbors=2...  
 [CV 3/5; 1485/1980] END leaf\_size=34, n\_neighbors=99;; score=0.566 total time=0.0s  
 [CV 4/5; 1485/1980] START leaf\_size=34, n\_neighbors=99...  
 [CV 5/5; 1477/1980] END leaf\_size=34, n\_neighbors=91;; score=0.623 total time=0.0s  
 [CV 1/5; 1478/1980] START leaf\_size=34, n\_neighbors=92...  
 [CV 5/5; 1482/1980] END leaf\_size=34, n\_neighbors=96;; score=0.604 total time=0.0s

[CV 1/5; 1483/1980] START leaf\_size=34, n\_neighbors=97...  
 [CV 2/5; 1481/1980] END leaf\_size=34, n\_neighbors=95;; score=0.603 total time=0.0s  
 [CV 3/5; 1481/1980] START leaf\_size=34, n\_neighbors=95...  
 [CV 5/5; 1489/1980] END leaf\_size=35, n\_neighbors=4;; score=0.593 total time=0.0s  
 [CV 5/5; 1476/1980] END leaf\_size=34, n\_neighbors=90;; score=0.617 total time= 0.0s  
  
 [CV 1/5; 1490/1980] START leaf\_size=35, n\_neighbors=5...  
 [CV 3/5; 1491/1980] START leaf\_size=35, n\_neighbors=6...  
 [CV 2/5; 1488/1980] END leaf\_size=35, n\_neighbors=3;; score=0.579 total time=0.0s  
 [CV 3/5; 1488/1980] START leaf\_size=35, n\_neighbors=3...  
 [CV 3/5; 1484/1980] END leaf\_size=34, n\_neighbors=98;; score=0.562 total time=0.0s  
 [CV 4/5; 1484/1980] START leaf\_size=34, n\_neighbors=98...  
 [CV 3/5; 1487/1980] END leaf\_size=35, n\_neighbors=2;; score=0.512 total time=0.0s  
 [CV 4/5; 1487/1980] START leaf\_size=35, n\_neighbors=2...  
 [CV 4/5; 1479/1980] END leaf\_size=34, n\_neighbors=93;; score=0.587 total time=0.0s  
 [CV 5/5; 1479/1980] START leaf\_size=34, n\_neighbors=93...  
 [CV 4/5; 1485/1980] END leaf\_size=34, n\_neighbors=99;; score=0.589 total time=0.0s  
 [CV 5/5; 1485/1980] START leaf\_size=34, n\_neighbors=99...  
 [CV 1/5; 1490/1980] END leaf\_size=35, n\_neighbors=5;; score=0.546 total time=0.0s  
 [CV 2/5; 1490/1980] START leaf\_size=35, n\_neighbors=5...  
 [CV 3/5; 1481/1980] END leaf\_size=34, n\_neighbors=95;; score=0.566 total time=0.0s  
 [CV 4/5; 1481/1980] START leaf\_size=34, n\_neighbors=95...  
 [CV 1/5; 1483/1980] END leaf\_size=34, n\_neighbors=97;; score=0.641 total time=0.0s  
 [CV 2/5; 1483/1980] START leaf\_size=34, n\_neighbors=97...  
 [CV 3/5; 1491/1980] END leaf\_size=35, n\_neighbors=6;; score=0.555 total time=0.0s  
 [CV 4/5; 1491/1980] START leaf\_size=35, n\_neighbors=6...  
 [CV 1/5; 1478/1980] END leaf\_size=34, n\_neighbors=92;; score=0.646 total time=0.0s  
 [CV 2/5; 1478/1980] START leaf\_size=34, n\_neighbors=92...  
 [CV 4/5; 1487/1980] END leaf\_size=35, n\_neighbors=2;; score=0.571 total time=0.0s  
 [CV 5/5; 1487/1980] START leaf\_size=35, n\_neighbors=2...  
 [CV 3/5; 1488/1980] END leaf\_size=35, n\_neighbors=3;; score=0.484 total time=0.0s  
 [CV 4/5; 1488/1980] START leaf\_size=35, n\_neighbors=3...  
 [CV 4/5; 1484/1980] END leaf\_size=34, n\_neighbors=98;; score=0.584 total time=0.0s



[CV 5/5; 1484/1980] START leaf\_size=34, n\_neighbors=98...  
 [CV 2/5; 1490/1980] END leaf\_size=35, n\_neighbors=5;; score=0.562 total time=0.0s  
 [CV 3/5; 1490/1980] START leaf\_size=35, n\_neighbors=5...  
 [CV 4/5; 1491/1980] END leaf\_size=35, n\_neighbors=6;; score=0.578 total time=0.0s  
 [CV 5/5; 1491/1980] START leaf\_size=35, n\_neighbors=6...  
 [CV 5/5; 1485/1980] END leaf\_size=34, n\_neighbors=99;; score=0.610 total time=0.0s  
 [CV 1/5; 1486/1980] START leaf\_size=35, n\_neighbors=1...  
 [CV 4/5; 1481/1980] END leaf\_size=34, n\_neighbors=95;; score=0.584 total time=0.0s  
 [CV 2/5; 1483/1980] END leaf\_size=34, n\_neighbors=97;; score=0.594 total time=0.0s  
 [CV 1/5; 1493/1980] START leaf\_size=35, n\_neighbors=8...  
 [CV 5/5; 1487/1980] END leaf\_size=35, n\_neighbors=2;; score=0.574 total time=0.0s  
 [CV 1/5; 1488/1980] START leaf\_size=35, n\_neighbors=3...  
 [CV 5/5; 1479/1980] END leaf\_size=34, n\_neighbors=93;; score=0.617 total time=0.0s  
 [CV 1/5; 1480/1980] START leaf\_size=34, n\_neighbors=94...  
 [CV 4/5; 1494/1980] START leaf\_size=35, n\_neighbors=9...  
 [CV 3/5; 1490/1980] END leaf\_size=35, n\_neighbors=5;; score=0.536 total time=0.0s  
 [CV 4/5; 1490/1980] START leaf\_size=35, n\_neighbors=5...  
 [CV 4/5; 1488/1980] END leaf\_size=35, n\_neighbors=3;; score=0.584 total time=0.0s  
 [CV 5/5; 1488/1980] START leaf\_size=35, n\_neighbors=3...  
 [CV 2/5; 1478/1980] END leaf\_size=34, n\_neighbors=92;; score=0.598 total time=0.0s  
 [CV 3/5; 1478/1980] START leaf\_size=34, n\_neighbors=92...  
 [CV 5/5; 1484/1980] END leaf\_size=34, n\_neighbors=98;; score=0.606 total time=0.0s  
 [CV 5/5; 1491/1980] END leaf\_size=35, n\_neighbors=6;; score=0.582 total time=0.0s  
 [CV 1/5; 1492/1980] START leaf\_size=35, n\_neighbors=7...  
 [CV 2/5; 1496/1980] START leaf\_size=35, n\_neighbors=11...  
 [CV 1/5; 1486/1980] END leaf\_size=35, n\_neighbors=1;; score=0.516 total time=0.0s  
 [CV 2/5; 1486/1980] START leaf\_size=35, n\_neighbors=1...  
 [CV 1/5; 1493/1980] END leaf\_size=35, n\_neighbors=8;; score=0.568 total time=0.0s  
 [CV 2/5; 1493/1980] START leaf\_size=35, n\_neighbors=8...  
 [CV 1/5; 1488/1980] END leaf\_size=35, n\_neighbors=3;; score=0.557 total time=0.0s  
 [CV 5/5; 1497/1980] START leaf\_size=35, n\_neighbors=12...  
 [CV 4/5; 1494/1980] END leaf\_size=35, n\_neighbors=9;; score=0.589 total time=0.0s

[CV 5/5; 1494/1980] START leaf\_size=35, n\_neighbors=9...  
 [CV 4/5; 1490/1980] END leaf\_size=35, n\_neighbors=5;; score=0.589 total time=0.0s  
 [CV 5/5; 1490/1980] START leaf\_size=35, n\_neighbors=5...  
 [CV 5/5; 1488/1980] END leaf\_size=35, n\_neighbors=3;; score=0.593 total time=0.0s  
 [CV 1/5; 1489/1980] START leaf\_size=35, n\_neighbors=4...  
 [CV 1/5; 1480/1980] END leaf\_size=34, n\_neighbors=94;; score=0.644 total time=0.0s  
 [CV 3/5; 1499/1980] START leaf\_size=35, n\_neighbors=14...  
 [CV 2/5; 1493/1980] END leaf\_size=35, n\_neighbors=8;; score=0.551 total time=0.0s  
 [CV 3/5; 1493/1980] START leaf\_size=35, n\_neighbors=8...  
 [CV 2/5; 1486/1980] END leaf\_size=35, n\_neighbors=1;; score=0.568 total time=0.0s  
 [CV 3/5; 1486/1980] START leaf\_size=35, n\_neighbors=1...  
 [CV 1/5; 1492/1980] END leaf\_size=35, n\_neighbors=7;; score=0.568 total time=0.0s  
 [CV 2/5; 1492/1980] START leaf\_size=35, n\_neighbors=7...  
 [CV 5/5; 1490/1980] END leaf\_size=35, n\_neighbors=5;; score=0.591 total time=0.0s  
 [CV 1/5; 1491/1980] START leaf\_size=35, n\_neighbors=6...  
 [CV 2/5; 1496/1980] END leaf\_size=35, n\_neighbors=11;; score=0.579 total time=0.0s  
 [CV 3/5; 1496/1980] START leaf\_size=35, n\_neighbors=11...  
 [CV 5/5; 1497/1980] END leaf\_size=35, n\_neighbors=12;; score=0.613 total time=0.0s  
 [CV 1/5; 1498/1980] START leaf\_size=35, n\_neighbors=13...  
 [CV 3/5; 1478/1980] END leaf\_size=34, n\_neighbors=92;; score=0.564 total time=0.0s  
 [CV 5/5; 1494/1980] END leaf\_size=35, n\_neighbors=9;; score=0.613 total time=0.0s  
 [CV 1/5; 1495/1980] START leaf\_size=35, n\_neighbors=10...  
 [CV 3/5; 1486/1980] END leaf\_size=35, n\_neighbors=1;; score=0.490 total time=0.0s  
 [CV 3/5; 1493/1980] END leaf\_size=35, n\_neighbors=8;; score=0.551 total time=0.0s  
 [CV 4/5; 1493/1980] START leaf\_size=35, n\_neighbors=8...  
 [CV 1/5; 1501/1980] START leaf\_size=35, n\_neighbors=16...  
 [CV 3/5; 1499/1980] END leaf\_size=35, n\_neighbors=14;; score=0.544 total time=0.0s  
 [CV 4/5; 1499/1980] START leaf\_size=35, n\_neighbors=14...  
 [CV 4/5; 1502/1980] START leaf\_size=35, n\_neighbors=17...  
 [CV 1/5; 1491/1980] END leaf\_size=35, n\_neighbors=6;; score=0.570 total time=0.0s  
 [CV 2/5; 1491/1980] START leaf\_size=35, n\_neighbors=6...  
 [CV 2/5; 1492/1980] END leaf\_size=35, n\_neighbors=7;; score=0.559 total time=0.0s

[CV 3/5; 1492/1980] START leaf\_size=35, n\_neighbors=7...  
 [CV 3/5; 1496/1980] END leaf\_size=35, n\_neighbors=11;; score=0.551 total time=0.0s  
 [CV 4/5; 1496/1980] START leaf\_size=35, n\_neighbors=11...  
 [CV 1/5; 1489/1980] END leaf\_size=35, n\_neighbors=4;; score=0.562 total time=0.0s  
 [CV 2/5; 1489/1980] START leaf\_size=35, n\_neighbors=4...  
 [CV 1/5; 1498/1980] END leaf\_size=35, n\_neighbors=13;; score=0.633 total time=0.0s  
 [CV 2/5; 1498/1980] START leaf\_size=35, n\_neighbors=13...  
 [CV 4/5; 1493/1980] END leaf\_size=35, n\_neighbors=8;; score=0.617 total time=0.0s  
 [CV 5/5; 1493/1980] START leaf\_size=35, n\_neighbors=8...  
 [CV 1/5; 1495/1980] END leaf\_size=35, n\_neighbors=10;; score=0.611 total time=0.0s  
 [CV 2/5; 1495/1980] START leaf\_size=35, n\_neighbors=10...  
 [CV 2/5; 1491/1980] END leaf\_size=35, n\_neighbors=6;; score=0.546 total time=0.0s  
 [CV 4/5; 1499/1980] END leaf\_size=35, n\_neighbors=14;; score=0.584 total time=0.0s  
 [CV 5/5; 1499/1980] START leaf\_size=35, n\_neighbors=14...  
 [CV 1/5; 1501/1980] END leaf\_size=35, n\_neighbors=16;; score=0.637 total time=0.0s  
 [CV 2/5; 1501/1980] START leaf\_size=35, n\_neighbors=16...  
 [CV 2/5; 1504/1980] START leaf\_size=35, n\_neighbors=19...  
 [CV 4/5; 1496/1980] END leaf\_size=35, n\_neighbors=11;; score=0.589 total time=0.0s  
 [CV 5/5; 1496/1980] START leaf\_size=35, n\_neighbors=11...  
 [CV 3/5; 1492/1980] END leaf\_size=35, n\_neighbors=7;; score=0.551 total time=0.0s  
 [CV 4/5; 1492/1980] START leaf\_size=35, n\_neighbors=7...  
 [CV 4/5; 1502/1980] END leaf\_size=35, n\_neighbors=17;; score=0.580 total time=0.0s  
 [CV 5/5; 1502/1980] START leaf\_size=35, n\_neighbors=17...  
 [CV 2/5; 1498/1980] END leaf\_size=35, n\_neighbors=13;; score=0.570 total time=0.0s  
 [CV 3/5; 1498/1980] START leaf\_size=35, n\_neighbors=13...  
 [CV 5/5; 1493/1980] END leaf\_size=35, n\_neighbors=8;; score=0.608 total time=0.0s  
 [CV 1/5; 1494/1980] START leaf\_size=35, n\_neighbors=9...  
 [CV 2/5; 1489/1980] END leaf\_size=35, n\_neighbors=4;; score=0.581 total time=0.0s  
 [CV 3/5; 1489/1980] START leaf\_size=35, n\_neighbors=4...  
 [CV 2/5; 1495/1980] END leaf\_size=35, n\_neighbors=10;; score=0.568 total time=0.0s  
 [CV 3/5; 1495/1980] START leaf\_size=35, n\_neighbors=10...  
 [CV 5/5; 1499/1980] END leaf\_size=35, n\_neighbors=14;; score=0.606 total time=0.0s

[CV 1/5; 1500/1980] START leaf\_size=35, n\_neighbors=15...  
 [CV 2/5; 1504/1980] END leaf\_size=35, n\_neighbors=19;; score=0.583 total time=0.0s  
 [CV 3/5; 1504/1980] START leaf\_size=35, n\_neighbors=19...  
 [CV 2/5; 1501/1980] END leaf\_size=35, n\_neighbors=16;; score=0.575 total time=0.0s  
 [CV 3/5; 1501/1980] START leaf\_size=35, n\_neighbors=16...  
 [CV 5/5; 1496/1980] END leaf\_size=35, n\_neighbors=11;; score=0.606 total time=0.0s  
 [CV 1/5; 1497/1980] START leaf\_size=35, n\_neighbors=12...  
 [CV 4/5; 1492/1980] END leaf\_size=35, n\_neighbors=7;; score=0.584 total time=0.0s  
 [CV 5/5; 1492/1980] START leaf\_size=35, n\_neighbors=7...  
 [CV 1/5; 1494/1980] END leaf\_size=35, n\_neighbors=9;; score=0.592 total time=0.0s  
 [CV 2/5; 1494/1980] START leaf\_size=35,  
 n\_neighbors=9...[CV 5/5; 1502/1980] END leaf\_size=35,  
 n\_neighbors=17;; score=0.610 total time= 0.0s  
  
 [CV 1/5; 1503/1980] START leaf\_size=35, n\_neighbors=18...  
 [CV 3/5; 1498/1980] END leaf\_size=35, n\_neighbors=13;; score=0.553 total time=0.0s  
 [CV 4/5; 1498/1980] START leaf\_size=35, n\_neighbors=13...  
 [CV 3/5; 1489/1980] END leaf\_size=35, n\_neighbors=4;; score=0.544 total time=0.0s  
 [CV 4/5; 1489/1980] START leaf\_size=35, n\_neighbors=4...  
 [CV 3/5; 1504/1980] END leaf\_size=35, n\_neighbors=19;; score=0.551 total time=0.0s  
 [CV 4/5; 1504/1980] START leaf\_size=35, n\_neighbors=19...  
 [CV 1/5; 1500/1980] END leaf\_size=35, n\_neighbors=15;; score=0.637 total time=0.0s  
 [CV 2/5; 1500/1980] START leaf\_size=35, n\_neighbors=15...  
 [CV 3/5; 1501/1980] END leaf\_size=35, n\_neighbors=16;; score=0.557 total time=0.0s  
 [CV 4/5; 1501/1980] START leaf\_size=35, n\_neighbors=16...  
 [CV 2/5; 1494/1980] END leaf\_size=35, n\_neighbors=9;; score=0.570 total time=0.0s  
 [CV 3/5; 1494/1980] START leaf\_size=35, n\_neighbors=9...  
 [CV 1/5; 1497/1980] END leaf\_size=35, n\_neighbors=12;; score=0.648 total time=0.0s  
 [CV 2/5; 1497/1980] START leaf\_size=35, n\_neighbors=12...  
 [CV 3/5; 1495/1980] END leaf\_size=35, n\_neighbors=10;; score=0.549 total time=0.0s  
 [CV 4/5; 1495/1980] START leaf\_size=35, n\_neighbors=10...  
 [CV 4/5; 1498/1980] END leaf\_size=35, n\_neighbors=13;; score=0.574 total time=0.0s  
 [CV 1/5; 1503/1980] END leaf\_size=35, n\_neighbors=18;; score=0.635 total time=0.0s[CV 5/5; 1498/1980] START leaf\_size=35,

n\_neighbors=13...

[CV 2/5; 1503/1980] START leaf\_size=35, n\_neighbors=18..  
[CV 5/5; 1492/1980] END leaf\_size=35, n\_neighbors=7;; score=0.613 total time=0.0s  
[CV 5/5; 1505/1980] START leaf\_size=35, n\_neighbors=20..  
[CV 4/5; 1504/1980] END leaf\_size=35, n\_neighbors=19;; score=0.589 total time=0.0s  
[CV 5/5; 1504/1980] START leaf\_size=35, n\_neighbors=19..  
[CV 2/5; 1500/1980] END leaf\_size=35, n\_neighbors=15;; score=0.570 total time=0.0s  
[CV 3/5; 1500/1980] START leaf\_size=35, n\_neighbors=15..  
[CV 4/5; 1501/1980] END leaf\_size=35, n\_neighbors=16;; score=0.584 total time=0.0s  
[CV 5/5; 1501/1980] START leaf\_size=35, n\_neighbors=16..  
[CV 3/5; 1494/1980] END leaf\_size=35, n\_neighbors=9;; score=0.559 total time=0.0s  
[CV 3/5; 1507/1980] START leaf\_size=35, n\_neighbors=22..  
[CV 2/5; 1497/1980] END leaf\_size=35, n\_neighbors=12;; score=0.581 total time=0.0s  
[CV 3/5; 1497/1980] START leaf\_size=35, n\_neighbors=12..  
[CV 4/5; 1489/1980] END leaf\_size=35, n\_neighbors=4;; score=0.580 total time=0.0s  
[CV 1/5; 1509/1980] START leaf\_size=35, n\_neighbors=24..  
[CV 5/5; 1498/1980] END leaf\_size=35, n\_neighbors=13;; score=0.591 total time=0.0s  
[CV 1/5; 1499/1980] START leaf\_size=35, n\_neighbors=14..  
[CV 2/5; 1503/1980] END leaf\_size=35, n\_neighbors=18;; score=0.590 total time=0.0s  
[CV 3/5; 1503/1980] START leaf\_size=35, n\_neighbors=18..  
[CV 5/5; 1505/1980] END leaf\_size=35, n\_neighbors=20;; score=0.632 total time=0.0s  
[CV 1/5; 1506/1980] START leaf\_size=35, n\_neighbors=21..  
[CV 4/5; 1495/1980] END leaf\_size=35, n\_neighbors=10;; score=0.597 total time=0.0s  
[CV 5/5; 1495/1980] START leaf\_size=35, n\_neighbors=10..  
[CV 5/5; 1504/1980] END leaf\_size=35, n\_neighbors=19;; score=0.626 total time=0.0s  
[CV 1/5; 1505/1980] START leaf\_size=35, n\_neighbors=20..  
[CV 5/5; 1501/1980] END leaf\_size=35, n\_neighbors=16;; score=0.621 total time=0.0s  
[CV 1/5; 1502/1980] START leaf\_size=35, n\_neighbors=17..  
[CV 3/5; 1500/1980] END leaf\_size=35, n\_neighbors=15;; score=0.557 total time=0.0s  
[CV 4/5; 1500/1980] START leaf\_size=35, n\_neighbors=15..  
[CV 3/5; 1497/1980] END leaf\_size=35, n\_neighbors=12;; score=0.546 total time=0.0s  
[CV 4/5; 1497/1980] START leaf\_size=35, n\_neighbors=12...

[CV 3/5; 1507/1980] END leaf\_size=35, n\_neighbors=22;; score=0.555 total time=0.0s  
 [CV 4/5; 1507/1980] START leaf\_size=35, n\_neighbors=22...  
 [CV 3/5; 1503/1980] END leaf\_size=35, n\_neighbors=18;; score=0.555 total time=0.0s  
 [CV 4/5; 1503/1980] START leaf\_size=35, n\_neighbors=18...  
 [CV 1/5; 1499/1980] END leaf\_size=35, n\_neighbors=14;; score=0.644 total time=0.0s  
 [CV 2/5; 1499/1980] START leaf\_size=35, n\_neighbors=14...  
 [CV 5/5; 1495/1980] END leaf\_size=35, n\_neighbors=10;; score=0.615 total time=0.0s  
 [CV 1/5; 1496/1980] START leaf\_size=35, n\_neighbors=11...  
 [CV 1/5; 1506/1980] END leaf\_size=35, n\_neighbors=21;; score=0.626 total time=0.0s  
 [CV 2/5; 1506/1980] START leaf\_size=35, n\_neighbors=21...  
 [CV 1/5; 1509/1980] END leaf\_size=35, n\_neighbors=24;; score=0.646 total time=0.0s  
 [CV 2/5; 1509/1980] START leaf\_size=35, n\_neighbors=24...  
 [CV 1/5; 1505/1980] END leaf\_size=35, n\_neighbors=20;; score=0.618 total time=0.0s  
 [CV 2/5; 1505/1980] START leaf\_size=35, n\_neighbors=20...  
 [CV 1/5; 1502/1980] END leaf\_size=35, n\_neighbors=17;; score=0.631 total time=0.0s  
 [CV 2/5; 1502/1980] START leaf\_size=35, n\_neighbors=17...  
 [CV 4/5; 1497/1980] END leaf\_size=35, n\_neighbors=12;; score=0.576 total time=0.0s  
 [CV 4/5; 1507/1980] END leaf\_size=35, n\_neighbors=22;; score=0.600 total time=0.0s  
 [CV 4/5; 1510/1980] START leaf\_size=35, n\_neighbors=25...  
 [CV 5/5; 1507/1980] START leaf\_size=35, n\_neighbors=22...  
 [CV 4/5; 1500/1980] END leaf\_size=35, n\_neighbors=15;; score=0.584 total time=0.0s  
 [CV 5/5; 1500/1980] START leaf\_size=35, n\_neighbors=15...  
 [CV 4/5; 1503/1980] END leaf\_size=35, n\_neighbors=18;; score=0.600 total time=0.0s  
 [CV 5/5; 1503/1980] START leaf\_size=35, n\_neighbors=18...  
 [CV 2/5; 1499/1980] END leaf\_size=35, n\_neighbors=14;; score=0.572 total time=0.0s  
 [CV 2/5; 1512/1980] START leaf\_size=35, n\_neighbors=27...  
 [CV 1/5; 1496/1980] END leaf\_size=35, n\_neighbors=11;; score=0.624 total time=0.0s  
 [CV 2/5; 1506/1980] END leaf\_size=35, n\_neighbors=21;; score=0.581 total time=0.0s  
 [CV 3/5; 1506/1980] START leaf\_size=35, n\_neighbors=21...  
 [CV 5/5; 1513/1980] START leaf\_size=35, n\_neighbors=28...  
 [CV 2/5; 1505/1980] END leaf\_size=35, n\_neighbors=20;; score=0.583 total time=0.0s  
 [CV 3/5; 1505/1980] START leaf\_size=35, n\_neighbors=20...

[CV 2/5; 1502/1980] END leaf\_size=35, n\_neighbors=17;; score=0.568 total time=0.0s  
 [CV 3/5; 1502/1980] START leaf\_size=35, n\_neighbors=17...  
 [CV 4/5; 1510/1980] END leaf\_size=35, n\_neighbors=25;; score=0.587 total time=0.0s  
 [CV 5/5; 1510/1980] START leaf\_size=35, n\_neighbors=25...  
 [CV 2/5; 1509/1980] END leaf\_size=35, n\_neighbors=24;; score=0.596 total time=0.0s  
 [CV 3/5; 1509/1980] START leaf\_size=35, n\_neighbors=24...  
 [CV 5/5; 1507/1980] END leaf\_size=35, n\_neighbors=22;; score=0.628 total time=0.0s  
 [CV 5/5; 1500/1980] END leaf\_size=35, n\_neighbors=15;; score=0.615 total time=0.0s  
 [CV 3/5; 1515/1980] START leaf\_size=35, n\_neighbors=30...  
 [CV 5/5; 1503/1980] END leaf\_size=35, n\_neighbors=18;; score=0.617 total time=0.0s  
 [CV 1/5; 1504/1980] START leaf\_size=35, n\_neighbors=19...  
 [CV 2/5; 1512/1980] END leaf\_size=35, n\_neighbors=27;; score=0.594 total time=0.0s  
 [CV 3/5; 1512/1980] START leaf\_size=35, n\_neighbors=27...  
 [CV 1/5; 1508/1980] START leaf\_size=35, n\_neighbors=23...  
 [CV 3/5; 1506/1980] END leaf\_size=35, n\_neighbors=21;; score=0.559 total time=0.0s  
 [CV 4/5; 1506/1980] START leaf\_size=35,  
 n\_neighbors=21...[CV 3/5; 1505/1980] END leaf\_size=35,  
 n\_neighbors=20;; score=0.553 total time= 0.0s  
  
 [CV 4/5; 1505/1980] START leaf\_size=35, n\_neighbors=20...  
 [CV 3/5; 1502/1980] END leaf\_size=35, n\_neighbors=17;; score=0.564 total time=0.0s  
 [CV 5/5; 1513/1980] END leaf\_size=35, n\_neighbors=28;; score=0.641 total time=0.0s  
 [CV 1/5; 1514/1980] START leaf\_size=35, n\_neighbors=29...  
 [CV 5/5; 1510/1980] END leaf\_size=35, n\_neighbors=25;; score=0.647 total time=0.0s  
 [CV 1/5; 1511/1980] START leaf\_size=35, n\_neighbors=26...  
 [CV 1/5; 1517/1980] START leaf\_size=35, n\_neighbors=32...  
 [CV 3/5; 1509/1980] END leaf\_size=35, n\_neighbors=24;; score=0.564 total time=0.0s  
 [CV 4/5; 1509/1980] START leaf\_size=35, n\_neighbors=24...  
 [CV 3/5; 1512/1980] END leaf\_size=35, n\_neighbors=27;; score=0.568 total time=0.0s  
 [CV 4/5; 1506/1980] END leaf\_size=35, n\_neighbors=21;; score=0.606 total time= 0.0s  
  
 [CV 5/5; 1506/1980] START leaf\_size=35, n\_neighbors=21...  
 [CV 4/5; 1512/1980] START leaf\_size=35, n\_neighbors=27...  
 [CV 3/5; 1515/1980] END leaf\_size=35, n\_neighbors=30;; score=0.579 total time=0.0s

[CV 4/5; 1515/1980] START leaf\_size=35, n\_neighbors=30...  
 [CV 1/5; 1504/1980] END leaf\_size=35, n\_neighbors=19;; score=0.637 total time=0.0s  
 [CV 4/5; 1518/1980] START leaf\_size=35, n\_neighbors=33...  
 [CV 4/5; 1505/1980] END leaf\_size=35, n\_neighbors=20;; score=0.600 total time=0.0s  
 [CV 1/5; 1508/1980] END leaf\_size=35, n\_neighbors=23;; score=0.646 total time=0.0s  
 [CV 2/5; 1508/1980] START leaf\_size=35, n\_neighbors=23...  
 [CV 2/5; 1520/1980] START leaf\_size=35, n\_neighbors=35...  
 [CV 1/5; 1511/1980] END leaf\_size=35, n\_neighbors=26;; score=0.639 total time=0.0s  
 [CV 2/5; 1511/1980] START leaf\_size=35, n\_neighbors=26...  
 [CV 1/5; 1517/1980] END leaf\_size=35, n\_neighbors=32;; score=0.639 total time= 0.0s  
  
 [CV 2/5; 1517/1980] START leaf\_size=35, n\_neighbors=32...  
 [CV 4/5; 1509/1980] END leaf\_size=35, n\_neighbors=24;; score=0.597 total time=0.0s  
 [CV 5/5; 1509/1980] START leaf\_size=35, n\_neighbors=24...  
 [CV 1/5; 1514/1980] END leaf\_size=35, n\_neighbors=29;; score=0.646 total time=0.0s  
 [CV 2/5; 1514/1980] START leaf\_size=35, n\_neighbors=29...  
 [CV 5/5; 1506/1980] END leaf\_size=35, n\_neighbors=21;; score=0.621 total time=0.0s  
 [CV 1/5; 1507/1980] START leaf\_size=35, n\_neighbors=22...  
 [CV 4/5; 1512/1980] END leaf\_size=35, n\_neighbors=27;; score=0.593 total time=0.0s  
 [CV 5/5; 1512/1980] START leaf\_size=35, n\_neighbors=27...  
 [CV 4/5; 1515/1980] END leaf\_size=35, n\_neighbors=30;; score=0.595 total time=0.0s  
 [CV 5/5; 1515/1980] START leaf\_size=35, n\_neighbors=30...  
 [CV 2/5; 1520/1980] END leaf\_size=35, n\_neighbors=35;; score=0.607 total time=0.0s  
 [CV 3/5; 1520/1980] START leaf\_size=35, n\_neighbors=35...  
 [CV 4/5; 1518/1980] END leaf\_size=35, n\_neighbors=33;; score=0.597 total time=0.0s  
 [CV 5/5; 1518/1980] START leaf\_size=35, n\_neighbors=33...  
 [CV 2/5; 1511/1980] END leaf\_size=35, n\_neighbors=26;; score=0.600 total time=0.0s  
 [CV 3/5; 1511/1980] START leaf\_size=35, n\_neighbors=26...  
 [CV 2/5; 1517/1980] END leaf\_size=35, n\_neighbors=32;; score=0.605 total time=0.0s  
 [CV 3/5; 1517/1980] START leaf\_size=35, n\_neighbors=32...  
 [CV 5/5; 1509/1980] END leaf\_size=35, n\_neighbors=24;; score=0.647 total time=0.0s  
 [CV 1/5; 1510/1980] START leaf\_size=35, n\_neighbors=25...  
 [CV 1/5; 1507/1980] END leaf\_size=35, n\_neighbors=22;; score=0.622 total time=



0.0s  
 [CV 2/5; 1507/1980] START leaf\_size=35, n\_neighbors=22...  
 [CV 2/5; 1514/1980] END leaf\_size=35, n\_neighbors=29;; score=0.600 total time=  
 0.0s  
 [CV 3/5; 1514/1980] START leaf\_size=35, n\_neighbors=29...  
 [CV 5/5; 1512/1980] END leaf\_size=35, n\_neighbors=27;; score=0.630 total time=  
 0.0s  
 [CV 1/5; 1513/1980] START leaf\_size=35, n\_neighbors=28...  
 [CV 3/5; 1520/1980] END leaf\_size=35, n\_neighbors=35;; score=0.572 total time=  
 0.0s  
 [CV 4/5; 1520/1980] START leaf\_size=35, n\_neighbors=35...  
 [CV 5/5; 1515/1980] END leaf\_size=35, n\_neighbors=30;; score=0.632 total time=  
 0.0s  
 [CV 1/5; 1516/1980] START leaf\_size=35, n\_neighbors=31...  
 [CV 3/5; 1511/1980] END leaf\_size=35, n\_neighbors=26;; score=0.564 total time=  
 0.0s  
 [CV 4/5; 1511/1980] START leaf\_size=35, n\_neighbors=26...  
 [CV 5/5; 1518/1980] END leaf\_size=35, n\_neighbors=33;; score=0.630 total time=  
 0.0s  
 [CV 1/5; 1519/1980] START leaf\_size=35, n\_neighbors=34...  
 [CV 3/5; 1517/1980] END leaf\_size=35, n\_neighbors=32;; score=0.577 total time=  
 0.0s  
 [CV 4/5; 1517/1980] START leaf\_size=35, n\_neighbors=32...  
 [CV 2/5; 1508/1980] END leaf\_size=35, n\_neighbors=23;; score=0.583 total time=  
 0.1s  
 [CV 3/5; 1508/1980] START leaf\_size=35, n\_neighbors=23...  
 [CV 2/5; 1507/1980] END leaf\_size=35, n\_neighbors=22;; score=0.587 total time=  
 0.0s  
 [CV 1/5; 1510/1980] END leaf\_size=35, n\_neighbors=25;; score=0.646 total time=  
 0.0s  
 [CV 2/5; 1510/1980] START leaf\_size=35, n\_neighbors=25...  
 [CV 5/5; 1521/1980] START leaf\_size=35, n\_neighbors=36...  
 [CV 3/5; 1514/1980] END leaf\_size=35, n\_neighbors=29;; score=0.577 total time=  
 0.0s  
 [CV 4/5; 1514/1980] START leaf\_size=35, n\_neighbors=29...  
 [CV 1/5; 1513/1980] END leaf\_size=35, n\_neighbors=28;; score=0.650 total time=  
 0.0s  
 [CV 2/5; 1513/1980] START leaf\_size=35, n\_neighbors=28...  
 [CV 4/5; 1520/1980] END leaf\_size=35, n\_neighbors=35;; score=0.604 total time=  
 0.0s  
 [CV 5/5; 1520/1980] START leaf\_size=35, n\_neighbors=35...  
 [CV 4/5; 1511/1980] END leaf\_size=35, n\_neighbors=26;; score=0.593 total time=  
 0.0s  
 [CV 5/5; 1511/1980] START leaf\_size=35, n\_neighbors=26...  
 [CV 4/5; 1517/1980] END leaf\_size=35, n\_neighbors=32;; score=0.593 total time=  
 0.0s  
 [CV 5/5; 1517/1980] START leaf\_size=35, n\_neighbors=32...  
 [CV 1/5; 1516/1980] END leaf\_size=35, n\_neighbors=31;; score=0.644 total time=

0.0s  
 [CV 2/5; 1516/1980] START leaf\_size=35, n\_neighbors=31...  
 [CV 1/5; 1519/1980] END leaf\_size=35, n\_neighbors=34;; score=0.644 total time=  
 0.0s  
 [CV 2/5; 1519/1980] START leaf\_size=35, n\_neighbors=34...  
 [CV 5/5; 1521/1980] END leaf\_size=35, n\_neighbors=36;; score=0.628 total time=  
 0.0s  
 [CV 1/5; 1522/1980] START leaf\_size=35, n\_neighbors=37...  
 [CV 2/5; 1513/1980] END leaf\_size=35, n\_neighbors=28;; score=0.598 total time=  
 0.0s  
 [CV 3/5; 1513/1980] START leaf\_size=35, n\_neighbors=28...  
 [CV 2/5; 1510/1980] END leaf\_size=35, n\_neighbors=25;; score=0.598 total time=  
 0.0s  
 [CV 3/5; 1510/1980] START leaf\_size=35, n\_neighbors=25...  
 [CV 3/5; 1508/1980] END leaf\_size=35, n\_neighbors=23;; score=0.557 total time=  
 0.0s  
 [CV 4/5; 1508/1980] START leaf\_size=35, n\_neighbors=23...  
 [CV 4/5; 1514/1980] END leaf\_size=35, n\_neighbors=29;; score=0.600 total time=  
 0.0s  
 [CV 5/5; 1514/1980] START leaf\_size=35, n\_neighbors=29...  
 [CV 5/5; 1520/1980] END leaf\_size=35, n\_neighbors=35;; score=0.639 total time=  
 0.0s  
 [CV 1/5; 1521/1980] START leaf\_size=35, n\_neighbors=36...  
 [CV 5/5; 1517/1980] END leaf\_size=35, n\_neighbors=32;; score=0.628 total time=  
 0.0s  
 [CV 1/5; 1518/1980] START leaf\_size=35, n\_neighbors=33...  
 [CV 5/5; 1511/1980] END leaf\_size=35, n\_neighbors=26;; score=0.628 total time=  
 0.0s  
 [CV 1/5; 1512/1980] START leaf\_size=35, n\_neighbors=27...  
 [CV 2/5; 1516/1980] END leaf\_size=35, n\_neighbors=31;; score=0.603 total time=  
 0.0s  
 [CV 3/5; 1516/1980] START leaf\_size=35, n\_neighbors=31...  
 [CV 1/5; 1522/1980] END leaf\_size=35, n\_neighbors=37;; score=0.657 total time=  
 0.0s  
 [CV 2/5; 1522/1980] START leaf\_size=35, n\_neighbors=37...  
 [CV 3/5; 1513/1980] END leaf\_size=35, n\_neighbors=28;; score=0.568 total time=  
 0.0s  
 [CV 4/5; 1513/1980] START leaf\_size=35, n\_neighbors=28...  
 [CV 2/5; 1519/1980] END leaf\_size=35, n\_neighbors=34;; score=0.600 total time=  
 0.0s  
 [CV 3/5; 1519/1980] START leaf\_size=35, n\_neighbors=34...  
 [CV 3/5; 1510/1980] END leaf\_size=35, n\_neighbors=25;; score=0.557 total time=  
 0.0s  
 [CV 3/5; 1523/1980] START leaf\_size=35, n\_neighbors=38...  
 [CV 4/5; 1508/1980] END leaf\_size=35, n\_neighbors=23;; score=0.600 total time=  
 0.0s  
 [CV 5/5; 1508/1980] START leaf\_size=35, n\_neighbors=23...  
 [CV 1/5; 1518/1980] END leaf\_size=35, n\_neighbors=33;; score=0.646 total time=

0.0s  
 [CV 2/5; 1518/1980] START leaf\_size=35, n\_neighbors=33...  
 [CV 1/5; 1521/1980] END leaf\_size=35, n\_neighbors=36;; score=0.644 total time=  
 0.0s  
 [CV 2/5; 1521/1980] START leaf\_size=35, n\_neighbors=36...  
 [CV 1/5; 1512/1980] END leaf\_size=35, n\_neighbors=27;; score=0.650 total time=  
 0.0s  
 [CV 1/5; 1525/1980] START leaf\_size=35,  
 n\_neighbors=40...[CV 5/5; 1514/1980] END leaf\_size=35,  
 n\_neighbors=29;; score=0.639 total time= 0.0s  
  
 [CV 1/5; 1515/1980] START leaf\_size=35, n\_neighbors=30...  
 [CV 3/5; 1516/1980] END leaf\_size=35, n\_neighbors=31;; score=0.570 total time=  
 0.0s  
 [CV 4/5; 1516/1980] START leaf\_size=35, n\_neighbors=31...  
 [CV 4/5; 1513/1980] END leaf\_size=35, n\_neighbors=28;; score=0.597 total time=  
 0.0s  
 [CV 2/5; 1522/1980] END leaf\_size=35, n\_neighbors=37;; score=0.607 total time=  
 0.0s  
 [CV 3/5; 1522/1980] START leaf\_size=35, n\_neighbors=37...  
 [CV 4/5; 1526/1980] START leaf\_size=35, n\_neighbors=41...  
 [CV 5/5; 1508/1980] END leaf\_size=35, n\_neighbors=23;; score=0.643 total time=  
 0.0s[CV 3/5; 1519/1980] END leaf\_size=35, n\_neighbors=34;; score=0.577 total  
 time= 0.0s  
 [CV 4/5; 1519/1980] START leaf\_size=35, n\_neighbors=34...  
 [CV 2/5; 1518/1980] END leaf\_size=35, n\_neighbors=33;; score=0.607 total time=  
 0.0s  
 [CV 3/5; 1518/1980] START leaf\_size=35, n\_neighbors=33...  
 [CV 3/5; 1523/1980] END leaf\_size=35, n\_neighbors=38;; score=0.566 total time=  
 0.0s  
 [CV 4/5; 1523/1980] START leaf\_size=35, n\_neighbors=38...  
  
 [CV 2/5; 1528/1980] START leaf\_size=35, n\_neighbors=43...  
 [CV 4/5; 1516/1980] END leaf\_size=35, n\_neighbors=31;; score=0.595 total time=  
 0.0s  
 [CV 5/5; 1516/1980] START leaf\_size=35, n\_neighbors=31...  
 [CV 1/5; 1525/1980] END leaf\_size=35, n\_neighbors=40;; score=0.661 total time=  
 0.0s  
 [CV 2/5; 1525/1980] START leaf\_size=35, n\_neighbors=40...  
 [CV 1/5; 1515/1980] END leaf\_size=35, n\_neighbors=30;; score=0.639 total time=  
 0.0s  
 [CV 2/5; 1515/1980] START leaf\_size=35, n\_neighbors=30...  
 [CV 4/5; 1526/1980] END leaf\_size=35, n\_neighbors=41;; score=0.610 total time=  
 0.0s  
 [CV 5/5; 1526/1980] START leaf\_size=35, n\_neighbors=41...  
 [CV 2/5; 1521/1980] END leaf\_size=35, n\_neighbors=36;; score=0.616 total time=  
 0.0s  
 [CV 3/5; 1521/1980] START leaf\_size=35, n\_neighbors=36...

[CV 3/5; 1522/1980] END leaf\_size=35, n\_neighbors=37;; score=0.568 total time=0.0s  
 [CV 4/5; 1522/1980] START leaf\_size=35, n\_neighbors=37...  
 [CV 3/5; 1518/1980] END leaf\_size=35, n\_neighbors=33;; score=0.570 total time=0.0s  
 [CV 5/5; 1529/1980] START leaf\_size=35, n\_neighbors=44...  
 [CV 5/5; 1516/1980] END leaf\_size=35, n\_neighbors=31;; score=0.634 total time=0.0s  
 [CV 3/5; 1531/1980] START leaf\_size=35, n\_neighbors=46...  
 [CV 4/5; 1519/1980] END leaf\_size=35, n\_neighbors=34;; score=0.597 total time=0.0s  
 [CV 5/5; 1519/1980] START leaf\_size=35, n\_neighbors=34...  
 [CV 2/5; 1525/1980] END leaf\_size=35, n\_neighbors=40;; score=0.611 total time=0.0s  
 [CV 3/5; 1525/1980] START leaf\_size=35, n\_neighbors=40...  
 [CV 4/5; 1523/1980] END leaf\_size=35, n\_neighbors=38;; score=0.602 total time=0.0s  
 [CV 5/5; 1523/1980] START leaf\_size=35, n\_neighbors=38...  
 [CV 2/5; 1528/1980] END leaf\_size=35, n\_neighbors=43;; score=0.616 total time=0.0s  
 [CV 3/5; 1528/1980] START leaf\_size=35, n\_neighbors=43...  
 [CV 5/5; 1526/1980] END leaf\_size=35, n\_neighbors=41;; score=0.619 total time=0.0s  
 [CV 1/5; 1527/1980] START leaf\_size=35, n\_neighbors=42...  
 [CV 2/5; 1515/1980] END leaf\_size=35, n\_neighbors=30;; score=0.607 total time=0.0s  
 [CV 3/5; 1521/1980] END leaf\_size=35, n\_neighbors=36;; score=0.566 total time=0.0s  
 [CV 4/5; 1521/1980] START leaf\_size=35, n\_neighbors=36...  
 [CV 4/5; 1522/1980] END leaf\_size=35, n\_neighbors=37;; score=0.610 total time=0.0s  
 [CV 5/5; 1522/1980] START leaf\_size=35, n\_neighbors=37...  
 [CV 1/5; 1533/1980] START leaf\_size=35, n\_neighbors=48...  
 [CV 5/5; 1529/1980] END leaf\_size=35, n\_neighbors=44;; score=0.615 total time=0.0s  
 [CV 1/5; 1530/1980] START leaf\_size=35, n\_neighbors=45...  
 [CV 3/5; 1531/1980] END leaf\_size=35, n\_neighbors=46;; score=0.572 total time=0.0s  
 [CV 4/5; 1531/1980] START leaf\_size=35, n\_neighbors=46...  
 [CV 5/5; 1519/1980] END leaf\_size=35, n\_neighbors=34;; score=0.634 total time=0.0s  
 [CV 1/5; 1520/1980] START leaf\_size=35, n\_neighbors=35...  
 [CV 3/5; 1525/1980] END leaf\_size=35, n\_neighbors=40;; score=0.572 total time=0.0s  
 [CV 4/5; 1525/1980] START leaf\_size=35, n\_neighbors=40...  
 [CV 3/5; 1528/1980] END leaf\_size=35, n\_neighbors=43;; score=0.566 total time=0.0s  
 [CV 4/5; 1528/1980] START leaf\_size=35, n\_neighbors=43...

[CV 1/5; 1527/1980] END leaf\_size=35, n\_neighbors=42;; score=0.667 total time=0.0s  
 [CV 2/5; 1527/1980] START leaf\_size=35, n\_neighbors=42...  
 [CV 5/5; 1523/1980] END leaf\_size=35, n\_neighbors=38;; score=0.634 total time=0.0s  
 [CV 1/5; 1524/1980] START leaf\_size=35, n\_neighbors=39...  
 [CV 4/5; 1521/1980] END leaf\_size=35, n\_neighbors=36;; score=0.600 total time=0.0s  
 [CV 4/5; 1534/1980] START leaf\_size=35, n\_neighbors=49...  
 [CV 5/5; 1522/1980] END leaf\_size=35, n\_neighbors=37;; score=0.628 total time=0.0s  
 [CV 1/5; 1523/1980] START leaf\_size=35, n\_neighbors=38...  
 [CV 1/5; 1530/1980] END leaf\_size=35, n\_neighbors=45;; score=0.678 total time=0.0s  
 [CV 2/5; 1530/1980] START leaf\_size=35, n\_neighbors=45...  
 [CV 4/5; 1531/1980] END leaf\_size=35, n\_neighbors=46;; score=0.597 total time=0.0s  
 [CV 5/5; 1531/1980] START leaf\_size=35, n\_neighbors=46...  
 [CV 1/5; 1533/1980] END leaf\_size=35, n\_neighbors=48;; score=0.672 total time=0.0s  
 [CV 2/5; 1533/1980] START leaf\_size=35, n\_neighbors=48...  
 [CV 4/5; 1525/1980] END leaf\_size=35, n\_neighbors=40;; score=0.595 total time=0.0s  
 [CV 5/5; 1525/1980] START leaf\_size=35, n\_neighbors=40...  
 [CV 2/5; 1527/1980] END leaf\_size=35, n\_neighbors=42;; score=0.618 total time=0.0s  
 [CV 3/5; 1527/1980] START leaf\_size=35, n\_neighbors=42...  
 [CV 4/5; 1528/1980] END leaf\_size=35, n\_neighbors=43;; score=0.600 total time=0.0s  
 [CV 5/5; 1528/1980] START leaf\_size=35, n\_neighbors=43...  
 [CV 1/5; 1524/1980] END leaf\_size=35, n\_neighbors=39;; score=0.654 total time=0.0s  
 [CV 4/5; 1534/1980] END leaf\_size=35, n\_neighbors=49;; score=0.593 total time=0.0s  
 [CV 2/5; 1524/1980] START leaf\_size=35, n\_neighbors=39...  
 [CV 5/5; 1534/1980] START leaf\_size=35, n\_neighbors=49...  
 [CV 1/5; 1523/1980] END leaf\_size=35, n\_neighbors=38;; score=0.652 total time=0.0s  
 [CV 2/5; 1523/1980] START leaf\_size=35, n\_neighbors=38...  
 [CV 1/5; 1520/1980] END leaf\_size=35, n\_neighbors=35;; score=0.650 total time=0.0s  
 [CV 2/5; 1536/1980] START leaf\_size=35, n\_neighbors=51...  
 [CV 2/5; 1530/1980] END leaf\_size=35, n\_neighbors=45;; score=0.611 total time=0.0s  
 [CV 3/5; 1530/1980] START leaf\_size=35, n\_neighbors=45...  
 [CV 5/5; 1531/1980] END leaf\_size=35, n\_neighbors=46;; score=0.619 total time=0.0s  
 [CV 1/5; 1532/1980] START leaf\_size=35, n\_neighbors=47...

[CV 2/5; 1533/1980] END leaf\_size=35, n\_neighbors=48;; score=0.609 total time=0.0s  
 [CV 3/5; 1533/1980] START leaf\_size=35, n\_neighbors=48...  
 [CV 5/5; 1525/1980] END leaf\_size=35, n\_neighbors=40;; score=0.617 total time=0.0s  
 [CV 1/5; 1526/1980] START leaf\_size=35, n\_neighbors=41...  
 [CV 3/5; 1527/1980] END leaf\_size=35, n\_neighbors=42;; score=0.564 total time=0.0s  
 [CV 4/5; 1527/1980] START leaf\_size=35, n\_neighbors=42...  
 [CV 5/5; 1534/1980] END leaf\_size=35, n\_neighbors=49;; score=0.623 total time=0.0s  
 [CV 1/5; 1535/1980] START leaf\_size=35, n\_neighbors=50...  
 [CV 2/5; 1523/1980] END leaf\_size=35, n\_neighbors=38;; score=0.613 total time=0.0s  
 [CV 5/5; 1537/1980] START leaf\_size=35, n\_neighbors=52...  
 [CV 2/5; 1524/1980] END leaf\_size=35, n\_neighbors=39;; score=0.609 total time=0.0s  
 [CV 3/5; 1524/1980] START leaf\_size=35, n\_neighbors=39...  
 [CV 5/5; 1528/1980] END leaf\_size=35, n\_neighbors=43;; score=0.615 total time=0.0s  
 [CV 1/5; 1529/1980] START leaf\_size=35, n\_neighbors=44...  
 [CV 3/5; 1530/1980] END leaf\_size=35, n\_neighbors=45;; score=0.575 total time=0.0s  
 [CV 4/5; 1530/1980] START leaf\_size=35, n\_neighbors=45...  
 [CV 1/5; 1532/1980] END leaf\_size=35, n\_neighbors=47;; score=0.676 total time=0.0s  
 [CV 2/5; 1532/1980] START leaf\_size=35, n\_neighbors=47...  
 [CV 3/5; 1533/1980] END leaf\_size=35, n\_neighbors=48;; score=0.562 total time=0.0s  
 [CV 4/5; 1533/1980] START leaf\_size=35, n\_neighbors=48...  
 [CV 2/5; 1536/1980] END leaf\_size=35, n\_neighbors=51;; score=0.618 total time=0.0s  
 [CV 3/5; 1536/1980] START leaf\_size=35, n\_neighbors=51...  
 [CV 1/5; 1526/1980] END leaf\_size=35, n\_neighbors=41;; score=0.665 total time=0.0s  
 [CV 2/5; 1526/1980] START leaf\_size=35, n\_neighbors=41...  
 [CV 4/5; 1527/1980] END leaf\_size=35, n\_neighbors=42;; score=0.608 total time=0.0s  
 [CV 5/5; 1527/1980] START leaf\_size=35, n\_neighbors=42...  
 [CV 1/5; 1535/1980] END leaf\_size=35, n\_neighbors=50;; score=0.678 total time=0.0s  
 [CV 2/5; 1535/1980] START leaf\_size=35, n\_neighbors=50...  
 [CV 5/5; 1537/1980] END leaf\_size=35, n\_neighbors=52;; score=0.619 total time=0.0s  
 [CV 1/5; 1538/1980] START leaf\_size=35, n\_neighbors=53...  
 [CV 3/5; 1524/1980] END leaf\_size=35, n\_neighbors=39;; score=0.575 total time=0.0s  
 [CV 4/5; 1524/1980] START leaf\_size=35, n\_neighbors=39...

[CV 1/5; 1529/1980] END leaf\_size=35, n\_neighbors=44;; score=0.667 total time=0.0s  
 [CV 2/5; 1529/1980] START leaf\_size=35, n\_neighbors=44...  
 [CV 4/5; 1530/1980] END leaf\_size=35, n\_neighbors=45;; score=0.600 total time=0.0s  
 [CV 5/5; 1530/1980] START leaf\_size=35, n\_neighbors=45...  
 [CV 2/5; 1532/1980] END leaf\_size=35, n\_neighbors=47;; score=0.611 total time=0.0s  
 [CV 3/5; 1532/1980] START leaf\_size=35, n\_neighbors=47...  
 [CV 4/5; 1533/1980] END leaf\_size=35, n\_neighbors=48;; score=0.589 total time=0.0s  
 [CV 5/5; 1533/1980] START leaf\_size=35, n\_neighbors=48...  
 [CV 5/5; 1527/1980] END leaf\_size=35, n\_neighbors=42;; score=0.621 total time=0.0s  
 [CV 1/5; 1528/1980] START leaf\_size=35, n\_neighbors=43...  
 [CV 2/5; 1535/1980] END leaf\_size=35, n\_neighbors=50;; score=0.603 total time=0.0s  
 [CV 2/5; 1526/1980] END leaf\_size=35, n\_neighbors=41;; score=0.618 total time= 0.0s  
  
 [CV 3/5; 1526/1980] START leaf\_size=35, n\_neighbors=41...[CV 3/5; 1535/1980] START leaf\_size=35, n\_neighbors=50...  
  
 [CV 3/5; 1536/1980] END leaf\_size=35, n\_neighbors=51;; score=0.566 total time=0.0s  
 [CV 4/5; 1536/1980] START leaf\_size=35, n\_neighbors=51...  
 [CV 1/5; 1538/1980] END leaf\_size=35, n\_neighbors=53;; score=0.678 total time=0.0s  
 [CV 4/5; 1524/1980] END leaf\_size=35, n\_neighbors=39;; score=0.602 total time= 0.0s  
  
 [CV 5/5; 1524/1980] START leaf\_size=35, n\_neighbors=39...[CV 2/5; 1538/1980] START leaf\_size=35, n\_neighbors=53...  
  
 [CV 2/5; 1529/1980] END leaf\_size=35, n\_neighbors=44;; score=0.613 total time=0.0s  
 [CV 3/5; 1529/1980] START leaf\_size=35, n\_neighbors=44...  
 [CV 5/5; 1530/1980] END leaf\_size=35, n\_neighbors=45;; score=0.619 total time=0.0s  
 [CV 1/5; 1531/1980] START leaf\_size=35, n\_neighbors=46...  
 [CV 3/5; 1532/1980] END leaf\_size=35, n\_neighbors=47;; score=0.572 total time=0.0s  
 [CV 4/5; 1532/1980] START leaf\_size=35, n\_neighbors=47...  
 [CV 3/5; 1535/1980] END leaf\_size=35, n\_neighbors=50;; score=0.557 total time=0.0s  
 [CV 4/5; 1535/1980] START leaf\_size=35, n\_neighbors=50...  
 [CV 5/5; 1533/1980] END leaf\_size=35, n\_neighbors=48;; score=0.630 total time=0.0s

[CV 1/5; 1534/1980] START leaf\_size=35, n\_neighbors=49...  
 [CV 1/5; 1528/1980] END leaf\_size=35, n\_neighbors=43;; score=0.674 total time=0.0s  
 [CV 3/5; 1526/1980] END leaf\_size=35, n\_neighbors=41;; score=0.568 total time=0.0s  
 [CV 3/5; 1539/1980] START leaf\_size=35, n\_neighbors=54...  
 [CV 1/5; 1541/1980] START leaf\_size=35, n\_neighbors=56...  
 [CV 5/5; 1524/1980] END leaf\_size=35, n\_neighbors=39;; score=0.636 total time=0.0s  
 [CV 4/5; 1542/1980] START leaf\_size=35, n\_neighbors=57...  
 [CV 2/5; 1538/1980] END leaf\_size=35, n\_neighbors=53;; score=0.611 total time=0.0s  
 [CV 3/5; 1538/1980] START leaf\_size=35, n\_neighbors=53...  
 [CV 4/5; 1536/1980] END leaf\_size=35, n\_neighbors=51;; score=0.602 total time=0.0s  
 [CV 5/5; 1536/1980] START leaf\_size=35, n\_neighbors=51...  
 [CV 3/5; 1529/1980] END leaf\_size=35, n\_neighbors=44;; score=0.570 total time=0.0s  
 [CV 4/5; 1529/1980] START leaf\_size=35, n\_neighbors=44...  
 [CV 1/5; 1531/1980] END leaf\_size=35, n\_neighbors=46;; score=0.672 total time=0.0s  
 [CV 2/5; 1531/1980] START leaf\_size=35, n\_neighbors=46...  
 [CV 4/5; 1532/1980] END leaf\_size=35, n\_neighbors=47;; score=0.589 total time=0.0s  
 [CV 5/5; 1532/1980] START leaf\_size=35, n\_neighbors=47...  
 [CV 4/5; 1535/1980] END leaf\_size=35, n\_neighbors=50;; score=0.597 total time=0.0s  
 [CV 5/5; 1535/1980] START leaf\_size=35, n\_neighbors=50...  
 [CV 1/5; 1534/1980] END leaf\_size=35, n\_neighbors=49;; score=0.676 total time=0.0s  
 [CV 2/5; 1534/1980] START leaf\_size=35, n\_neighbors=49...  
 [CV 3/5; 1539/1980] END leaf\_size=35, n\_neighbors=54;; score=0.562 total time=0.0s  
 [CV 4/5; 1539/1980] START leaf\_size=35, n\_neighbors=54...  
 [CV 1/5; 1541/1980] END leaf\_size=35, n\_neighbors=56;; score=0.670 total time=0.0s  
 [CV 2/5; 1541/1980] START leaf\_size=35, n\_neighbors=56...  
 [CV 4/5; 1542/1980] END leaf\_size=35, n\_neighbors=57;; score=0.597 total time=0.0s  
 [CV 5/5; 1542/1980] START leaf\_size=35, n\_neighbors=57...  
 [CV 3/5; 1538/1980] END leaf\_size=35, n\_neighbors=53;; score=0.572 total time=0.0s  
 [CV 4/5; 1538/1980] START leaf\_size=35, n\_neighbors=53...  
 [CV 4/5; 1529/1980] END leaf\_size=35, n\_neighbors=44;; score=0.597 total time=0.0s  
 [CV 5/5; 1536/1980] END leaf\_size=35, n\_neighbors=51;; score=0.621 total time=0.0s  
 [CV 1/5; 1537/1980] START leaf\_size=35, n\_neighbors=52...



[CV 2/5; 1531/1980] END leaf\_size=35, n\_neighbors=46;; score=0.616 total time=0.0s  
 [CV 2/5; 1544/1980] START leaf\_size=35, n\_neighbors=59...  
 [CV 5/5; 1545/1980] START leaf\_size=35, n\_neighbors=60...  
 [CV 5/5; 1535/1980] END leaf\_size=35, n\_neighbors=50;; score=0.619 total time=0.0s  
 [CV 1/5; 1536/1980] START leaf\_size=35, n\_neighbors=51...  
 [CV 5/5; 1532/1980] END leaf\_size=35, n\_neighbors=47;; score=0.623 total time=0.0s  
 [CV 2/5; 1534/1980] END leaf\_size=35, n\_neighbors=49;; score=0.622 total time=0.0s  
 [CV 3/5; 1534/1980] START leaf\_size=35, n\_neighbors=49...  
 [CV 3/5; 1547/1980] START leaf\_size=35, n\_neighbors=62...  
 [CV 4/5; 1539/1980] END leaf\_size=35, n\_neighbors=54;; score=0.595 total time=0.0s  
 [CV 5/5; 1539/1980] START leaf\_size=35, n\_neighbors=54...  
 [CV 5/5; 1542/1980] END leaf\_size=35, n\_neighbors=57;; score=0.610 total time=0.0s  
 [CV 1/5; 1543/1980] START leaf\_size=35, n\_neighbors=58...  
 [CV 2/5; 1541/1980] END leaf\_size=35, n\_neighbors=56;; score=0.609 total time=0.0s  
 [CV 3/5; 1541/1980] START leaf\_size=35, n\_neighbors=56...  
 [CV 4/5; 1538/1980] END leaf\_size=35, n\_neighbors=53;; score=0.600 total time=0.0s  
 [CV 5/5; 1538/1980] START leaf\_size=35, n\_neighbors=53...  
 [CV 5/5; 1545/1980] END leaf\_size=35, n\_neighbors=60;; score=0.604 total time=0.0s  
 [CV 1/5; 1546/1980] START leaf\_size=35, n\_neighbors=61...  
 [CV 2/5; 1544/1980] END leaf\_size=35, n\_neighbors=59;; score=0.609 total time=0.0s  
 [CV 3/5; 1544/1980] START leaf\_size=35, n\_neighbors=59...  
 [CV 1/5; 1537/1980] END leaf\_size=35, n\_neighbors=52;; score=0.676 total time=0.0s  
 [CV 2/5; 1537/1980] START leaf\_size=35, n\_neighbors=52...  
 [CV 1/5; 1536/1980] END leaf\_size=35, n\_neighbors=51;; score=0.680 total time=0.0s  
 [CV 3/5; 1534/1980] END leaf\_size=35, n\_neighbors=49;; score=0.568 total time=0.0s  
 [CV 3/5; 1547/1980] END leaf\_size=35, n\_neighbors=62;; score=0.555 total time=0.0s  
 [CV 4/5; 1547/1980] START leaf\_size=35, n\_neighbors=62...  
 [CV 1/5; 1543/1980] END leaf\_size=35, n\_neighbors=58;; score=0.665 total time=0.0s  
 [CV 2/5; 1543/1980] START leaf\_size=35, n\_neighbors=58...  
 [CV 1/5; 1549/1980] START leaf\_size=35, n\_neighbors=64...  
 [CV 4/5; 1550/1980] START leaf\_size=35, n\_neighbors=65...  
 [CV 5/5; 1539/1980] END leaf\_size=35, n\_neighbors=54;; score=0.608 total time=0.0s

[CV 1/5; 1540/1980] START leaf\_size=35, n\_neighbors=55...  
 [CV 3/5; 1541/1980] END leaf\_size=35, n\_neighbors=56;; score=0.551 total time=0.0s  
 [CV 4/5; 1541/1980] START leaf\_size=35, n\_neighbors=56...  
 [CV 5/5; 1538/1980] END leaf\_size=35, n\_neighbors=53;; score=0.613 total time=0.0s  
 [CV 1/5; 1539/1980] START leaf\_size=35, n\_neighbors=54...  
 [CV 3/5; 1544/1980] END leaf\_size=35, n\_neighbors=59;; score=0.553 total time=0.0s  
 [CV 1/5; 1546/1980] END leaf\_size=35, n\_neighbors=61;; score=0.665 total time= 0.0s  
  
 [CV 2/5; 1546/1980] START leaf\_size=35, n\_neighbors=61...  
 [CV 4/5; 1544/1980] START leaf\_size=35, n\_neighbors=59...  
  
 [CV 2/5; 1537/1980] END leaf\_size=35, n\_neighbors=52;; score=0.611 total time=0.0s  
 [CV 3/5; 1537/1980] START leaf\_size=35, n\_neighbors=52...  
 [CV 2/5; 1543/1980] END leaf\_size=35, n\_neighbors=58;; score=0.609 total time=0.0s  
 [CV 3/5; 1543/1980] START leaf\_size=35, n\_neighbors=58...  
 [CV 1/5; 1539/1980] END leaf\_size=35, n\_neighbors=54;; score=0.667 total time=0.0s  
 [CV 2/5; 1539/1980] START leaf\_size=35, n\_neighbors=54...  
 [CV 4/5; 1547/1980] END leaf\_size=35, n\_neighbors=62;; score=0.600 total time=0.0s  
 [CV 5/5; 1547/1980] START leaf\_size=35, n\_neighbors=62...  
 [CV 4/5; 1550/1980] END leaf\_size=35, n\_neighbors=65;; score=0.591 total time=0.0s  
 [CV 4/5; 1541/1980] END leaf\_size=35, n\_neighbors=56;; score=0.591 total time=0.0s  
 [CV 5/5; 1550/1980] START leaf\_size=35, n\_neighbors=65...  
  
 [CV 5/5; 1541/1980] START leaf\_size=35, n\_neighbors=56...  
 [CV 1/5; 1540/1980] END leaf\_size=35, n\_neighbors=55;; score=0.667 total time=0.0s  
 [CV 2/5; 1540/1980] START leaf\_size=35, n\_neighbors=55...  
 [CV 1/5; 1549/1980] END leaf\_size=35, n\_neighbors=64;; score=0.663 total time=0.0s  
 [CV 2/5; 1549/1980] START leaf\_size=35, n\_neighbors=64...  
 [CV 4/5; 1544/1980] END leaf\_size=35, n\_neighbors=59;; score=0.604 total time=0.0s  
 [CV 5/5; 1544/1980] START leaf\_size=35, n\_neighbors=59...  
 [CV 2/5; 1546/1980] END leaf\_size=35, n\_neighbors=61;; score=0.603 total time=0.0s  
 [CV 3/5; 1546/1980] START leaf\_size=35, n\_neighbors=61...  
 [CV 3/5; 1543/1980] END leaf\_size=35, n\_neighbors=58;; score=0.549 total time=0.0s

[CV 4/5; 1543/1980] START leaf\_size=35, n\_neighbors=58...  
 [CV 2/5; 1539/1980] END leaf\_size=35, n\_neighbors=54;; score=0.618 total time= 0.0s  
 [CV 2/5; 1552/1980] START leaf\_size=35, n\_neighbors=67...  
 [CV 3/5; 1537/1980] END leaf\_size=35, n\_neighbors=52;; score=0.566 total time= 0.0s  
 [CV 4/5; 1537/1980] START leaf\_size=35, n\_neighbors=52...  
 [CV 5/5; 1547/1980] END leaf\_size=35, n\_neighbors=62;; score=0.610 total time= 0.0s  
 [CV 5/5; 1541/1980] END leaf\_size=35, n\_neighbors=56;; score=0.613 total time= 0.0s  
  
 [CV 1/5; 1542/1980] START leaf\_size=35, n\_neighbors=57...  
 [CV 1/5; 1548/1980] START leaf\_size=35, n\_neighbors=63...  
 [CV 5/5; 1550/1980] END leaf\_size=35, n\_neighbors=65;; score=0.621 total time= 0.0s  
 [CV 1/5; 1551/1980] START leaf\_size=35, n\_neighbors=66...  
 [CV 5/5; 1544/1980] END leaf\_size=35, n\_neighbors=59;; score=0.610 total time= 0.0s  
 [CV 1/5; 1545/1980] START leaf\_size=35, n\_neighbors=60...  
 [CV 2/5; 1549/1980] END leaf\_size=35, n\_neighbors=64;; score=0.609 total time= 0.0s  
 [CV 3/5; 1549/1980] START leaf\_size=35, n\_neighbors=64...  
 [CV 2/5; 1540/1980] END leaf\_size=35, n\_neighbors=55;; score=0.618 total time= 0.0s  
 [CV 3/5; 1546/1980] END leaf\_size=35, n\_neighbors=61;; score=0.557 total time= 0.0s  
 [CV 4/5; 1546/1980] START leaf\_size=35, n\_neighbors=61...  
  
 [CV 3/5; 1540/1980] START leaf\_size=35, n\_neighbors=55...  
 [CV 4/5; 1543/1980] END leaf\_size=35, n\_neighbors=58;; score=0.595 total time= 0.0s  
 [CV 5/5; 1543/1980] START leaf\_size=35, n\_neighbors=58...  
 [CV 2/5; 1552/1980] END leaf\_size=35, n\_neighbors=67;; score=0.611 total time= 0.0s  
 [CV 3/5; 1552/1980] START leaf\_size=35, n\_neighbors=67...  
 [CV 1/5; 1545/1980] END leaf\_size=35, n\_neighbors=60;; score=0.667 total time= 0.0s  
 [CV 2/5; 1545/1980] START leaf\_size=35, n\_neighbors=60...  
 [CV 1/5; 1542/1980] END leaf\_size=35, n\_neighbors=57;; score=0.665 total time= 0.0s  
  
 [CV 2/5; 1542/1980] START leaf\_size=35, n\_neighbors=57...  
 [CV 4/5; 1537/1980] END leaf\_size=35, n\_neighbors=52;; score=0.597 total time= 0.0s  
 [CV 1/5; 1548/1980] END leaf\_size=35, n\_neighbors=63;; score=0.665 total time= 0.0s  
 [CV 2/5; 1548/1980] START leaf\_size=35, n\_neighbors=63...  
 [CV 1/5; 1551/1980] END leaf\_size=35, n\_neighbors=66;; score=0.663 total time= 0.0s

[CV 2/5; 1551/1980] START leaf\_size=35, n\_neighbors=66...  
 [CV 4/5; 1546/1980] END leaf\_size=35, n\_neighbors=61;; score=0.604 total time=0.0s  
 [CV 5/5; 1546/1980] START leaf\_size=35, n\_neighbors=61...  
 [CV 5/5; 1553/1980] START leaf\_size=35, n\_neighbors=68...  
 [CV 3/5; 1549/1980] END leaf\_size=35, n\_neighbors=64;; score=0.562 total time=0.0s  
 [CV 4/5; 1549/1980] START leaf\_size=35, n\_neighbors=64...  
 [CV 3/5; 1540/1980] END leaf\_size=35, n\_neighbors=55;; score=0.564 total time=0.0s  
 [CV 4/5; 1540/1980] START leaf\_size=35, n\_neighbors=55...  
 [CV 5/5; 1543/1980] END leaf\_size=35, n\_neighbors=58;; score=0.610 total time=0.0s  
 [CV 1/5; 1544/1980] START leaf\_size=35, n\_neighbors=59...  
 [CV 3/5; 1552/1980] END leaf\_size=35, n\_neighbors=67;; score=0.564 total time=0.0s  
 [CV 4/5; 1552/1980] START leaf\_size=35, n\_neighbors=67...  
 [CV 2/5; 1545/1980] END leaf\_size=35, n\_neighbors=60;; score=0.605 total time=0.0s  
 [CV 3/5; 1545/1980] START leaf\_size=35, n\_neighbors=60...  
 [CV 2/5; 1542/1980] END leaf\_size=35, n\_neighbors=57;; score=0.616 total time=0.0s  
 [CV 3/5; 1542/1980] START leaf\_size=35, n\_neighbors=57...  
 [CV 5/5; 1546/1980] END leaf\_size=35, n\_neighbors=61;; score=0.606 total time=0.0s  
 [CV 1/5; 1547/1980] START leaf\_size=35, n\_neighbors=62...  
 [CV 2/5; 1551/1980] END leaf\_size=35, n\_neighbors=66;; score=0.609 total time=0.0s  
 [CV 4/5; 1549/1980] END leaf\_size=35, n\_neighbors=64;; score=0.593 total time=0.0s  
 [CV 3/5; 1551/1980] START leaf\_size=35, n\_neighbors=66...  
 [CV 5/5; 1549/1980] START leaf\_size=35, n\_neighbors=64...  
 [CV 4/5; 1540/1980] END leaf\_size=35, n\_neighbors=55;; score=0.593 total time=0.0s  
 [CV 5/5; 1540/1980] START leaf\_size=35, n\_neighbors=55...  
 [CV 2/5; 1548/1980] END leaf\_size=35, n\_neighbors=63;; score=0.609 total time=0.0s  
 [CV 3/5; 1548/1980] START leaf\_size=35, n\_neighbors=63...  
 [CV 5/5; 1553/1980] END leaf\_size=35, n\_neighbors=68;; score=0.615 total time=0.0s  
 [CV 1/5; 1554/1980] START leaf\_size=35, n\_neighbors=69...  
 [CV 1/5; 1544/1980] END leaf\_size=35, n\_neighbors=59;; score=0.670 total time=0.0s  
 [CV 3/5; 1555/1980] START leaf\_size=35, n\_neighbors=70...  
 [CV 4/5; 1552/1980] END leaf\_size=35, n\_neighbors=67;; score=0.587 total time=0.0s  
 [CV 5/5; 1552/1980] START leaf\_size=35, n\_neighbors=67...  
 [CV 3/5; 1545/1980] END leaf\_size=35, n\_neighbors=60;; score=0.553 total time=

0.0s  
[CV 4/5; 1545/1980] START leaf\_size=35, n\_neighbors=60...  
[CV 3/5; 1542/1980] END leaf\_size=35, n\_neighbors=57;; score=0.559 total time=0.0s  
[CV 1/5; 1557/1980] START leaf\_size=35, n\_neighbors=72...  
[CV 1/5; 1547/1980] END leaf\_size=35, n\_neighbors=62;; score=0.663 total time=0.0s  
[CV 2/5; 1547/1980] START leaf\_size=35, n\_neighbors=62...  
[CV 5/5; 1540/1980] END leaf\_size=35, n\_neighbors=55;; score=0.608 total time=0.0s  
[CV 4/5; 1558/1980] START leaf\_size=35, n\_neighbors=73...  
[CV 3/5; 1548/1980] END leaf\_size=35, n\_neighbors=63;; score=0.562 total time=0.0s  
[CV 5/5; 1549/1980] END leaf\_size=35, n\_neighbors=64;; score=0.613 total time=0.0s  
[CV 4/5; 1548/1980] START leaf\_size=35, n\_neighbors=63...  
[CV 1/5; 1550/1980] START leaf\_size=35, n\_neighbors=65...  
[CV 3/5; 1555/1980] END leaf\_size=35, n\_neighbors=70;; score=0.559 total time=0.0s  
[CV 4/5; 1555/1980] START leaf\_size=35, n\_neighbors=70...  
[CV 1/5; 1554/1980] END leaf\_size=35, n\_neighbors=69;; score=0.663 total time=0.0s  
[CV 2/5; 1554/1980] START leaf\_size=35, n\_neighbors=69...  
[CV 5/5; 1552/1980] END leaf\_size=35, n\_neighbors=67;; score=0.613 total time=0.0s  
[CV 1/5; 1553/1980] START leaf\_size=35, n\_neighbors=68...  
[CV 4/5; 1545/1980] END leaf\_size=35, n\_neighbors=60;; score=0.602 total time=0.0s  
[CV 2/5; 1560/1980] START leaf\_size=35, n\_neighbors=75...  
[CV 2/5; 1547/1980] END leaf\_size=35, n\_neighbors=62;; score=0.603 total time=0.0s  
[CV 1/5; 1557/1980] END leaf\_size=35, n\_neighbors=72;; score=0.663 total time=0.0s  
[CV 2/5; 1557/1980] START leaf\_size=35, n\_neighbors=72...  
[CV 5/5; 1561/1980] START leaf\_size=35, n\_neighbors=76...  
[CV 4/5; 1548/1980] END leaf\_size=35, n\_neighbors=63;; score=0.604 total time=0.0s  
[CV 5/5; 1548/1980] START leaf\_size=35, n\_neighbors=63...  
[CV 4/5; 1555/1980] END leaf\_size=35, n\_neighbors=70;; score=0.589 total time=0.0s  
[CV 5/5; 1555/1980] START leaf\_size=35, n\_neighbors=70...  
[CV 3/5; 1551/1980] END leaf\_size=35, n\_neighbors=66;; score=0.566 total time=0.1s  
[CV 4/5; 1551/1980] START leaf\_size=35, n\_neighbors=66...  
[CV 1/5; 1550/1980] END leaf\_size=35, n\_neighbors=65;; score=0.663 total time=0.0s  
[CV 2/5; 1550/1980] START leaf\_size=35, n\_neighbors=65...

[CV 1/5; 1553/1980] END leaf\_size=35, n\_neighbors=68;; score=0.667 total time=0.0s  
 [CV 2/5; 1553/1980] START leaf\_size=35, n\_neighbors=68...  
 [CV 2/5; 1560/1980] END leaf\_size=35, n\_neighbors=75;; score=0.603 total time=0.0s  
 [CV 3/5; 1560/1980] START leaf\_size=35, n\_neighbors=75...  
 [CV 5/5; 1561/1980] END leaf\_size=35, n\_neighbors=76;; score=0.621 total time=0.0s  
 [CV 1/5; 1562/1980] START leaf\_size=35, n\_neighbors=77...  
 [CV 5/5; 1548/1980] END leaf\_size=35, n\_neighbors=63;; score=0.615 total time=0.0s  
 [CV 2/5; 1554/1980] END leaf\_size=35, n\_neighbors=69;; score=0.609 total time=0.0s  
 [CV 3/5; 1554/1980] START leaf\_size=35, n\_neighbors=69...  
 [CV 3/5; 1563/1980] START leaf\_size=35, n\_neighbors=78...  
 [CV 2/5; 1557/1980] END leaf\_size=35, n\_neighbors=72;; score=0.607 total time=0.0s  
 [CV 3/5; 1557/1980] START leaf\_size=35, n\_neighbors=72...  
 [CV 5/5; 1555/1980] END leaf\_size=35, n\_neighbors=70;; score=0.606 total time=0.0s  
 [CV 1/5; 1556/1980] START leaf\_size=35, n\_neighbors=71...  
 [CV 4/5; 1551/1980] END leaf\_size=35, n\_neighbors=66;; score=0.574 total time=0.0s  
 [CV 5/5; 1551/1980] START leaf\_size=35, n\_neighbors=66...  
 [CV 2/5; 1553/1980] END leaf\_size=35, n\_neighbors=68;; score=0.609 total time=0.0s  
 [CV 3/5; 1553/1980] START leaf\_size=35, n\_neighbors=68...  
 [CV 4/5; 1558/1980] END leaf\_size=35, n\_neighbors=73;; score=0.591 total time=0.1s  
 [CV 5/5; 1558/1980] START leaf\_size=35, n\_neighbors=73...  
 [CV 3/5; 1560/1980] END leaf\_size=35, n\_neighbors=75;; score=0.555 total time=0.0s  
 [CV 4/5; 1560/1980] START leaf\_size=35, n\_neighbors=75...  
 [CV 1/5; 1562/1980] END leaf\_size=35, n\_neighbors=77;; score=0.667 total time=0.0s  
 [CV 2/5; 1562/1980] START leaf\_size=35, n\_neighbors=77...  
 [CV 3/5; 1563/1980] END leaf\_size=35, n\_neighbors=78;; score=0.555 total time=0.0s  
 [CV 4/5; 1563/1980] START leaf\_size=35, n\_neighbors=78...  
 [CV 3/5; 1557/1980] END leaf\_size=35, n\_neighbors=72;; score=0.562 total time=0.0s  
 [CV 4/5; 1557/1980] START leaf\_size=35, n\_neighbors=72...  
 [CV 2/5; 1550/1980] END leaf\_size=35, n\_neighbors=65;; score=0.616 total time=0.1s  
 [CV 3/5; 1550/1980] START leaf\_size=35, n\_neighbors=65...  
 [CV 1/5; 1556/1980] END leaf\_size=35, n\_neighbors=71;; score=0.670 total time=0.0s  
 [CV 2/5; 1556/1980] START leaf\_size=35, n\_neighbors=71...

[CV 5/5; 1551/1980] END leaf\_size=35, n\_neighbors=66;; score=0.613 total time=0.0s  
 [CV 1/5; 1552/1980] START leaf\_size=35, n\_neighbors=67...  
 [CV 3/5; 1553/1980] END leaf\_size=35, n\_neighbors=68;; score=0.566 total time=0.0s  
 [CV 4/5; 1553/1980] START leaf\_size=35, n\_neighbors=68...  
 [CV 4/5; 1560/1980] END leaf\_size=35, n\_neighbors=75;; score=0.591 total time=0.0s  
 [CV 5/5; 1560/1980] START leaf\_size=35, n\_neighbors=75...  
 [CV 2/5; 1562/1980] END leaf\_size=35, n\_neighbors=77;; score=0.605 total time=0.0s  
 [CV 3/5; 1562/1980] START leaf\_size=35, n\_neighbors=77...  
 [CV 4/5; 1563/1980] END leaf\_size=35, n\_neighbors=78;; score=0.571 total time=0.0s  
 [CV 5/5; 1563/1980] START leaf\_size=35, n\_neighbors=78...  
 [CV 3/5; 1550/1980] END leaf\_size=35, n\_neighbors=65;; score=0.566 total time=0.0s  
 [CV 4/5; 1557/1980] END leaf\_size=35, n\_neighbors=72;; score=0.593 total time=0.0s  
 [CV 5/5; 1557/1980] START leaf\_size=35, n\_neighbors=72...  
 [CV 5/5; 1558/1980] END leaf\_size=35, n\_neighbors=73;; score=0.628 total time=0.0s  
 [CV 1/5; 1559/1980] START leaf\_size=35, n\_neighbors=74...  
 [CV 2/5; 1556/1980] END leaf\_size=35, n\_neighbors=71;; score=0.616 total time=0.0s  
 [CV 3/5; 1556/1980] START leaf\_size=35, n\_neighbors=71...  
 [CV 4/5; 1553/1980] END leaf\_size=35, n\_neighbors=68;; score=0.576 total time=0.0s  
 [CV 1/5; 1565/1980] START leaf\_size=35, n\_neighbors=80...  
 [CV 1/5; 1552/1980] END leaf\_size=35, n\_neighbors=67;; score=0.663 total time=0.0s  
 [CV 4/5; 1566/1980] START leaf\_size=35, n\_neighbors=81...  
 [CV 3/5; 1554/1980] END leaf\_size=35, n\_neighbors=69;; score=0.568 total time=0.1s  
 [CV 4/5; 1554/1980] START leaf\_size=35, n\_neighbors=69...  
 [CV 2/5; 1568/1980] START leaf\_size=35, n\_neighbors=83...  
 [CV 5/5; 1560/1980] END leaf\_size=35, n\_neighbors=75;; score=0.632 total time=0.0s  
 [CV 1/5; 1561/1980] START leaf\_size=35, n\_neighbors=76...  
 [CV 3/5; 1562/1980] END leaf\_size=35, n\_neighbors=77;; score=0.562 total time=0.0s  
 [CV 4/5; 1562/1980] START leaf\_size=35, n\_neighbors=77...  
 [CV 5/5; 1563/1980] END leaf\_size=35, n\_neighbors=78;; score=0.628 total time=0.0s  
 [CV 1/5; 1564/1980] START leaf\_size=35, n\_neighbors=79...  
 [CV 5/5; 1557/1980] END leaf\_size=35, n\_neighbors=72;; score=0.613 total time=0.0s  
 [CV 1/5; 1558/1980] START leaf\_size=35, n\_neighbors=73...

[CV 3/5; 1556/1980] END leaf\_size=35, n\_neighbors=71;; score=0.562 total time=0.0s  
 [CV 4/5; 1556/1980] START leaf\_size=35, n\_neighbors=71...  
 [CV 1/5; 1565/1980] END leaf\_size=35, n\_neighbors=80;; score=0.659 total time=0.0s  
 [CV 2/5; 1565/1980] START leaf\_size=35, n\_neighbors=80...  
 [CV 4/5; 1566/1980] END leaf\_size=35, n\_neighbors=81;; score=0.587 total time=0.0s  
 [CV 5/5; 1566/1980] START leaf\_size=35, n\_neighbors=81...  
 [CV 2/5; 1568/1980] END leaf\_size=35, n\_neighbors=83;; score=0.596 total time=0.0s  
 [CV 3/5; 1568/1980] START leaf\_size=35, n\_neighbors=83...  
 [CV 1/5; 1559/1980] END leaf\_size=35, n\_neighbors=74;; score=0.661 total time=0.1s  
 [CV 4/5; 1554/1980] END leaf\_size=35, n\_neighbors=69;; score=0.582 total time=0.0s  
 [CV 2/5; 1559/1980] START leaf\_size=35, n\_neighbors=74...  
 [CV 5/5; 1554/1980] START leaf\_size=35, n\_neighbors=69...  
 [CV 4/5; 1562/1980] END leaf\_size=35, n\_neighbors=77;; score=0.580 total time=0.0s  
 [CV 5/5; 1562/1980] START leaf\_size=35, n\_neighbors=77...  
 [CV 1/5; 1564/1980] END leaf\_size=35, n\_neighbors=79;; score=0.659 total time=0.0s  
 [CV 2/5; 1564/1980] START leaf\_size=35, n\_neighbors=79...  
 [CV 1/5; 1561/1980] END leaf\_size=35, n\_neighbors=76;; score=0.667 total time=0.0s  
 [CV 2/5; 1561/1980] START leaf\_size=35, n\_neighbors=76...  
 [CV 1/5; 1558/1980] END leaf\_size=35, n\_neighbors=73;; score=0.663 total time=0.0s  
 [CV 2/5; 1558/1980] START leaf\_size=35, n\_neighbors=73...  
 [CV 4/5; 1556/1980] END leaf\_size=35, n\_neighbors=71;; score=0.587 total time=0.0s  
 [CV 5/5; 1556/1980] START leaf\_size=35, n\_neighbors=71...  
 [CV 2/5; 1565/1980] END leaf\_size=35, n\_neighbors=80;; score=0.594 total time=0.0s  
 [CV 3/5; 1565/1980] START leaf\_size=35, n\_neighbors=80...  
 [CV 5/5; 1566/1980] END leaf\_size=35, n\_neighbors=81;; score=0.626 total time=0.0s  
 [CV 1/5; 1567/1980] START leaf\_size=35, n\_neighbors=82...  
 [CV 3/5; 1568/1980] END leaf\_size=35, n\_neighbors=83;; score=0.564 total time=0.0s  
 [CV 4/5; 1568/1980] START leaf\_size=35, n\_neighbors=83...  
 [CV 5/5; 1562/1980] END leaf\_size=35, n\_neighbors=77;; score=0.617 total time=0.0s  
 [CV 1/5; 1563/1980] START leaf\_size=35, n\_neighbors=78...  
 [CV 2/5; 1558/1980] END leaf\_size=35, n\_neighbors=73;; score=0.605 total time=0.0s  
 [CV 3/5; 1558/1980] START leaf\_size=35, n\_neighbors=73...



[CV 5/5; 1554/1980] END leaf\_size=35, n\_neighbors=69;; score=0.621 total time=0.0s  
[CV 2/5; 1564/1980] END leaf\_size=35, n\_neighbors=79;; score=0.598 total time= 0.0s

[CV 3/5; 1564/1980] START leaf\_size=35, n\_neighbors=79...  
[CV 1/5; 1555/1980] START leaf\_size=35, n\_neighbors=70...  
[CV 2/5; 1561/1980] END leaf\_size=35, n\_neighbors=76;; score=0.603 total time=0.0s  
[CV 3/5; 1561/1980] START leaf\_size=35, n\_neighbors=76...  
[CV 2/5; 1559/1980] END leaf\_size=35, n\_neighbors=74;; score=0.607 total time=0.0s  
[CV 3/5; 1559/1980] START leaf\_size=35, n\_neighbors=74...  
[CV 5/5; 1556/1980] END leaf\_size=35, n\_neighbors=71;; score=0.613 total time=0.0s  
[CV 3/5; 1565/1980] END leaf\_size=35, n\_neighbors=80;; score=0.564 total time=0.0s  
[CV 4/5; 1565/1980] START leaf\_size=35, n\_neighbors=80...  
[CV 5/5; 1569/1980] START leaf\_size=35, n\_neighbors=84...  
[CV 1/5; 1567/1980] END leaf\_size=35, n\_neighbors=82;; score=0.659 total time=0.0s  
[CV 2/5; 1567/1980] START leaf\_size=35, n\_neighbors=82...  
[CV 4/5; 1568/1980] END leaf\_size=35, n\_neighbors=83;; score=0.584 total time=0.0s  
[CV 5/5; 1568/1980] START leaf\_size=35, n\_neighbors=83...  
[CV 1/5; 1563/1980] END leaf\_size=35, n\_neighbors=78;; score=0.659 total time=0.0s  
[CV 2/5; 1563/1980] START leaf\_size=35, n\_neighbors=78...  
[CV 3/5; 1558/1980] END leaf\_size=35, n\_neighbors=73;; score=0.566 total time=0.0s  
[CV 3/5; 1564/1980] END leaf\_size=35, n\_neighbors=79;; score=0.557 total time=0.0s  
[CV 4/5; 1564/1980] START leaf\_size=35, n\_neighbors=79...  
[CV 3/5; 1571/1980] START leaf\_size=35, n\_neighbors=86...  
[CV 3/5; 1561/1980] END leaf\_size=35, n\_neighbors=76;; score=0.557 total time=0.0s  
[CV 4/5; 1561/1980] START leaf\_size=35, n\_neighbors=76...  
[CV 1/5; 1555/1980] END leaf\_size=35, n\_neighbors=70;; score=0.663 total time=0.0s  
[CV 2/5; 1555/1980] START leaf\_size=35, n\_neighbors=70...  
[CV 4/5; 1565/1980] END leaf\_size=35, n\_neighbors=80;; score=0.584 total time=0.0s  
[CV 5/5; 1565/1980] START leaf\_size=35, n\_neighbors=80...  
[CV 5/5; 1569/1980] END leaf\_size=35, n\_neighbors=84;; score=0.626 total time=0.0s  
[CV 1/5; 1570/1980] START leaf\_size=35, n\_neighbors=85...  
[CV 3/5; 1559/1980] END leaf\_size=35, n\_neighbors=74;; score=0.557 total time=0.0s  
[CV 4/5; 1559/1980] START leaf\_size=35, n\_neighbors=74...

[CV 2/5; 1567/1980] END leaf\_size=35, n\_neighbors=82;; score=0.600 total time=0.0s  
 [CV 3/5; 1567/1980] START leaf\_size=35, n\_neighbors=82...  
 [CV 5/5; 1568/1980] END leaf\_size=35, n\_neighbors=83;; score=0.619 total time=0.0s  
 [CV 1/5; 1569/1980] START leaf\_size=35, n\_neighbors=84...  
 [CV 2/5; 1563/1980] END leaf\_size=35, n\_neighbors=78;; score=0.603 total time=0.0s  
 [CV 1/5; 1573/1980] START leaf\_size=35, n\_neighbors=88...  
 [CV 4/5; 1564/1980] END leaf\_size=35, n\_neighbors=79;; score=0.584 total time=0.0s  
 [CV 5/5; 1564/1980] START leaf\_size=35, n\_neighbors=79...  
 [CV 3/5; 1571/1980] END leaf\_size=35, n\_neighbors=86;; score=0.559 total time=0.0s  
 [CV 4/5; 1571/1980] START leaf\_size=35, n\_neighbors=86...  
 [CV 5/5; 1565/1980] END leaf\_size=35, n\_neighbors=80;; score=0.628 total time=0.0s  
 [CV 1/5; 1566/1980] START leaf\_size=35, n\_neighbors=81...  
 [CV 2/5; 1555/1980] END leaf\_size=35, n\_neighbors=70;; score=0.607 total time=0.0s  
 [CV 4/5; 1574/1980] START leaf\_size=35, n\_neighbors=89...  
 [CV 4/5; 1561/1980] END leaf\_size=35, n\_neighbors=76;; score=0.578 total time=0.0s  
 [CV 3/5; 1567/1980] END leaf\_size=35, n\_neighbors=82;; score=0.566 total time=0.0s  
 [CV 4/5; 1567/1980] START leaf\_size=35, n\_neighbors=82...  
 [CV 1/5; 1570/1980] END leaf\_size=35, n\_neighbors=85;; score=0.650 total time=0.0s  
 [CV 2/5; 1570/1980] START leaf\_size=35, n\_neighbors=85...  
 [CV 2/5; 1576/1980] START leaf\_size=35, n\_neighbors=91...  
 [CV 1/5; 1569/1980] END leaf\_size=35, n\_neighbors=84;; score=0.654 total time=0.0s  
 [CV 2/5; 1569/1980] START leaf\_size=35, n\_neighbors=84...  
 [CV 4/5; 1559/1980] END leaf\_size=35, n\_neighbors=74;; score=0.591 total time=0.0s  
 [CV 5/5; 1559/1980] START leaf\_size=35, n\_neighbors=74...  
 [CV 1/5; 1573/1980] END leaf\_size=35, n\_neighbors=88;; score=0.652 total time=0.0s  
 [CV 2/5; 1573/1980] START leaf\_size=35, n\_neighbors=88...  
 [CV 5/5; 1564/1980] END leaf\_size=35, n\_neighbors=79;; score=0.619 total time=0.0s  
 [CV 4/5; 1571/1980] END leaf\_size=35, n\_neighbors=86;; score=0.580 total time=0.0s  
 [CV 5/5; 1571/1980] START leaf\_size=35, n\_neighbors=86...  
 [CV 5/5; 1577/1980] START leaf\_size=35, n\_neighbors=92...  
 [CV 1/5; 1566/1980] END leaf\_size=35, n\_neighbors=81;; score=0.659 total time=0.0s  
 [CV 2/5; 1566/1980] START leaf\_size=35, n\_neighbors=81...

[CV 4/5; 1567/1980] END leaf\_size=35, n\_neighbors=82;; score=0.587 total time=0.0s  
 [CV 5/5; 1567/1980] START leaf\_size=35, n\_neighbors=82...  
 [CV 2/5; 1570/1980] END leaf\_size=35, n\_neighbors=85;; score=0.600 total time=0.0s  
 [CV 3/5; 1570/1980] START leaf\_size=35, n\_neighbors=85...  
 [CV 4/5; 1574/1980] END leaf\_size=35, n\_neighbors=89;; score=0.591 total time=0.0s  
 [CV 5/5; 1574/1980] START leaf\_size=35, n\_neighbors=89...  
 [CV 2/5; 1569/1980] END leaf\_size=35, n\_neighbors=84;; score=0.603 total time=0.0s  
 [CV 3/5; 1569/1980] START leaf\_size=35, n\_neighbors=84...  
 [CV 2/5; 1576/1980] END leaf\_size=35, n\_neighbors=91;; score=0.605 total time=0.0s  
 [CV 3/5; 1576/1980] START leaf\_size=35, n\_neighbors=91...  
 [CV 5/5; 1559/1980] END leaf\_size=35, n\_neighbors=74;; score=0.623 total time=0.0s  
 [CV 1/5; 1560/1980] START leaf\_size=35, n\_neighbors=75...  
 [CV 2/5; 1573/1980] END leaf\_size=35, n\_neighbors=88;; score=0.600 total time=0.0s  
 [CV 3/5; 1573/1980] START leaf\_size=35, n\_neighbors=88...  
 [CV 5/5; 1571/1980] END leaf\_size=35, n\_neighbors=86;; score=0.623 total time=0.0s  
 [CV 1/5; 1572/1980] START leaf\_size=35, n\_neighbors=87...  
 [CV 5/5; 1577/1980] END leaf\_size=35, n\_neighbors=92;; score=0.621 total time=0.0s  
 [CV 1/5; 1578/1980] START leaf\_size=35, n\_neighbors=93...  
 [CV 2/5; 1566/1980] END leaf\_size=35, n\_neighbors=81;; score=0.596 total time=0.0s  
 [CV 3/5; 1566/1980] START leaf\_size=35, n\_neighbors=81...  
 [CV 5/5; 1567/1980] END leaf\_size=35, n\_neighbors=82;; score=0.630 total time=0.0s  
 [CV 1/5; 1568/1980] START leaf\_size=35, n\_neighbors=83...  
 [CV 3/5; 1570/1980] END leaf\_size=35, n\_neighbors=85;; score=0.557 total time=0.0s  
 [CV 4/5; 1570/1980] START leaf\_size=35, n\_neighbors=85...  
 [CV 3/5; 1569/1980] END leaf\_size=35, n\_neighbors=84;; score=0.555 total time=0.0s  
 [CV 4/5; 1569/1980] START leaf\_size=35, n\_neighbors=84...  
 [CV 5/5; 1574/1980] END leaf\_size=35, n\_neighbors=89;; score=0.621 total time=0.0s  
 [CV 1/5; 1575/1980] START leaf\_size=35, n\_neighbors=90...  
 [CV 3/5; 1576/1980] END leaf\_size=35, n\_neighbors=91;; score=0.564 total time=0.0s  
 [CV 4/5; 1576/1980] START leaf\_size=35, n\_neighbors=91...  
 [CV 3/5; 1573/1980] END leaf\_size=35, n\_neighbors=88;; score=0.562 total time=0.0s  
 [CV 4/5; 1573/1980] START leaf\_size=35, n\_neighbors=88...

[CV 1/5; 1572/1980] END leaf\_size=35, n\_neighbors=87;; score=0.650 total time=0.0s  
 [CV 2/5; 1572/1980] START leaf\_size=35, n\_neighbors=87...  
 [CV 1/5; 1560/1980] END leaf\_size=35, n\_neighbors=75;; score=0.667 total time=0.0s  
 [CV 1/5; 1578/1980] END leaf\_size=35, n\_neighbors=93;; score=0.646 total time=0.0s  
 [CV 2/5; 1578/1980] START leaf\_size=35, n\_neighbors=93...  
 [CV 3/5; 1566/1980] END leaf\_size=35, n\_neighbors=81;; score=0.562 total time=0.0s  
 [CV 3/5; 1579/1980] START leaf\_size=35, n\_neighbors=94...  
 [CV 1/5; 1568/1980] END leaf\_size=35, n\_neighbors=83;; score=0.650 total time=0.0s  
 [CV 1/5; 1581/1980] START leaf\_size=35, n\_neighbors=96...  
 [CV 4/5; 1569/1980] END leaf\_size=35, n\_neighbors=84;; score=0.582 total time=0.0s  
 [CV 4/5; 1570/1980] END leaf\_size=35, n\_neighbors=85;; score=0.576 total time=0.0s  
 [CV 5/5; 1570/1980] START leaf\_size=35, n\_neighbors=85...  
 [CV 2/5; 1584/1980] START leaf\_size=35, n\_neighbors=99...  
 [CV 4/5; 1582/1980] START leaf\_size=35, n\_neighbors=97...  
 [CV 4/5; 1573/1980] END leaf\_size=35, n\_neighbors=88;; score=0.578 total time=0.0s  
 [CV 5/5; 1573/1980] START leaf\_size=35, n\_neighbors=88...  
 [CV 4/5; 1576/1980] END leaf\_size=35, n\_neighbors=91;; score=0.591 total time=0.0s  
 [CV 5/5; 1576/1980] START leaf\_size=35, n\_neighbors=91...  
 [CV 1/5; 1575/1980] END leaf\_size=35, n\_neighbors=90;; score=0.650 total time=0.0s  
 [CV 2/5; 1575/1980] START leaf\_size=35, n\_neighbors=90...  
 [CV 2/5; 1572/1980] END leaf\_size=35, n\_neighbors=87;; score=0.603 total time=0.0s  
 [CV 3/5; 1572/1980] START leaf\_size=35, n\_neighbors=87...  
 [CV 2/5; 1578/1980] END leaf\_size=35, n\_neighbors=93;; score=0.603 total time=0.0s  
 [CV 3/5; 1578/1980] START leaf\_size=35, n\_neighbors=93...  
 [CV 3/5; 1579/1980] END leaf\_size=35, n\_neighbors=94;; score=0.562 total time=0.0s  
 [CV 4/5; 1579/1980] START leaf\_size=35, n\_neighbors=94...  
 [CV 5/5; 1570/1980] END leaf\_size=35, n\_neighbors=85;; score=0.626 total time=0.0s  
 [CV 1/5; 1571/1980] START leaf\_size=35, n\_neighbors=86...  
 [CV 1/5; 1581/1980] END leaf\_size=35, n\_neighbors=96;; score=0.637 total time=0.0s  
 [CV 2/5; 1581/1980] START leaf\_size=35, n\_neighbors=96...  
 [CV 4/5; 1582/1980] END leaf\_size=35, n\_neighbors=97;; score=0.580 total time=0.0s  
 [CV 5/5; 1582/1980] START leaf\_size=35, n\_neighbors=97...

[CV 2/5; 1584/1980] END leaf\_size=35, n\_neighbors=99;; score=0.598 total time=0.0s  
 [CV 3/5; 1584/1980] START leaf\_size=35, n\_neighbors=99...  
 [CV 5/5; 1573/1980] END leaf\_size=35, n\_neighbors=88;; score=0.617 total time=0.0s  
 [CV 1/5; 1574/1980] START leaf\_size=35, n\_neighbors=89...  
 [CV 5/5; 1576/1980] END leaf\_size=35, n\_neighbors=91;; score=0.623 total time=0.0s  
 [CV 1/5; 1577/1980] START leaf\_size=35, n\_neighbors=92...  
 [CV 3/5; 1572/1980] END leaf\_size=35, n\_neighbors=87;; score=0.562 total time=0.0s  
 [CV 4/5; 1572/1980] START leaf\_size=35, n\_neighbors=87...  
 [CV 2/5; 1575/1980] END leaf\_size=35, n\_neighbors=90;; score=0.600 total time=0.0s  
 [CV 3/5; 1575/1980] START leaf\_size=35, n\_neighbors=90...  
 [CV 3/5; 1578/1980] END leaf\_size=35, n\_neighbors=93;; score=0.564 total time=0.0s  
 [CV 4/5; 1578/1980] START leaf\_size=35, n\_neighbors=93...  
 [CV 1/5; 1571/1980] END leaf\_size=35, n\_neighbors=86;; score=0.648 total time=0.0s  
 [CV 2/5; 1571/1980] START leaf\_size=35, n\_neighbors=86...  
 [CV 5/5; 1582/1980] END leaf\_size=35, n\_neighbors=97;; score=0.602 total time=0.0s  
 [CV 1/5; 1583/1980] START leaf\_size=35, n\_neighbors=98...  
 [CV 3/5; 1584/1980] END leaf\_size=35, n\_neighbors=99;; score=0.566 total time=0.0s  
 [CV 4/5; 1584/1980] START leaf\_size=35, n\_neighbors=99...  
 [CV 2/5; 1581/1980] END leaf\_size=35, n\_neighbors=96;; score=0.598 total time=0.0s  
 [CV 3/5; 1581/1980] START leaf\_size=35, n\_neighbors=96...  
 [CV 4/5; 1579/1980] END leaf\_size=35, n\_neighbors=94;; score=0.582 total time=0.0s  
 [CV 5/5; 1579/1980] START leaf\_size=35, n\_neighbors=94...  
 [CV 1/5; 1574/1980] END leaf\_size=35, n\_neighbors=89;; score=0.646 total time=0.0s  
 [CV 2/5; 1574/1980] START leaf\_size=35, n\_neighbors=89...  
 [CV 4/5; 1572/1980] END leaf\_size=35, n\_neighbors=87;; score=0.584 total time=0.0s  
 [CV 5/5; 1572/1980] START leaf\_size=35, n\_neighbors=87...  
 [CV 1/5; 1577/1980] END leaf\_size=35, n\_neighbors=92;; score=0.646 total time=0.0s  
 [CV 2/5; 1577/1980] START leaf\_size=35, n\_neighbors=92...  
 [CV 3/5; 1575/1980] END leaf\_size=35, n\_neighbors=90;; score=0.564 total time=0.0s  
 [CV 4/5; 1575/1980] START leaf\_size=35, n\_neighbors=90...  
 [CV 4/5; 1578/1980] END leaf\_size=35, n\_neighbors=93;; score=0.587 total time=0.0s  
 [CV 5/5; 1578/1980] START leaf\_size=35, n\_neighbors=93...

[CV 2/5; 1571/1980] END leaf\_size=35, n\_neighbors=86;; score=0.598 total time=0.0s  
 [CV 5/5; 1585/1980] START leaf\_size=36, n\_neighbors=1...  
 [CV 1/5; 1583/1980] END leaf\_size=35, n\_neighbors=98;; score=0.635 total time=0.0s  
 [CV 2/5; 1583/1980] START leaf\_size=35, n\_neighbors=98...  
 [CV 4/5; 1584/1980] END leaf\_size=35, n\_neighbors=99;; score=0.589 total time=0.0s  
 [CV 5/5; 1584/1980] START leaf\_size=35, n\_neighbors=99...  
 [CV 3/5; 1581/1980] END leaf\_size=35, n\_neighbors=96;; score=0.564 total time=0.0s  
 [CV 4/5; 1581/1980] START leaf\_size=35, n\_neighbors=96...  
 [CV 5/5; 1579/1980] END leaf\_size=35, n\_neighbors=94;; score=0.608 total time=0.0s  
 [CV 1/5; 1580/1980] START leaf\_size=35, n\_neighbors=95...  
 [CV 5/5; 1572/1980] END leaf\_size=35, n\_neighbors=87;; score=0.619 total time=0.0s  
 [CV 2/5; 1574/1980] END leaf\_size=35, n\_neighbors=89;; score=0.600 total time=0.0s  
 [CV 3/5; 1574/1980] START leaf\_size=35, n\_neighbors=89...  
 [CV 3/5; 1587/1980] START leaf\_size=36, n\_neighbors=3...  
 [CV 2/5; 1577/1980] END leaf\_size=35, n\_neighbors=92;; score=0.598 total time=0.0s  
 [CV 3/5; 1577/1980] START leaf\_size=35, n\_neighbors=92...  
 [CV 5/5; 1585/1980] END leaf\_size=36, n\_neighbors=1;; score=0.567 total time=0.0s  
 [CV 1/5; 1586/1980] START leaf\_size=36, n\_neighbors=2...  
 [CV 5/5; 1578/1980] END leaf\_size=35, n\_neighbors=93;; score=0.617 total time=0.0s  
 [CV 1/5; 1579/1980] START leaf\_size=35, n\_neighbors=94...  
 [CV 4/5; 1575/1980] END leaf\_size=35, n\_neighbors=90;; score=0.580 total time=0.0s  
 [CV 5/5; 1575/1980] START leaf\_size=35, n\_neighbors=90...  
 [CV 2/5; 1583/1980] END leaf\_size=35, n\_neighbors=98;; score=0.596 total time=0.0s  
 [CV 3/5; 1583/1980] START leaf\_size=35, n\_neighbors=98...  
 [CV 3/5; 1587/1980] END leaf\_size=36, n\_neighbors=3;; score=0.484 total time=0.0s  
 [CV 4/5; 1587/1980] START leaf\_size=36, n\_neighbors=3...  
 [CV 1/5; 1586/1980] END leaf\_size=36, n\_neighbors=2;; score=0.566 total time=0.0s  
 [CV 2/5; 1586/1980] START leaf\_size=36, n\_neighbors=2...  
 [CV 4/5; 1581/1980] END leaf\_size=35, n\_neighbors=96;; score=0.582 total time=0.0s  
 [CV 5/5; 1581/1980] START leaf\_size=35, n\_neighbors=96...  
 [CV 5/5; 1584/1980] END leaf\_size=35, n\_neighbors=99;; score=0.610 total time=0.0s  
 [CV 1/5; 1585/1980] START leaf\_size=36, n\_neighbors=1...

[CV 3/5; 1574/1980] END leaf\_size=35, n\_neighbors=89;; score=0.564 total time=0.0s  
 [CV 1/5; 1589/1980] START leaf\_size=36, n\_neighbors=5...  
 [CV 1/5; 1580/1980] END leaf\_size=35, n\_neighbors=95;; score=0.644 total time=0.0s  
 [CV 2/5; 1580/1980] START leaf\_size=35, n\_neighbors=95...  
 [CV 3/5; 1577/1980] END leaf\_size=35, n\_neighbors=92;; score=0.564 total time=0.0s  
 [CV 4/5; 1577/1980] START leaf\_size=35, n\_neighbors=92...  
 [CV 1/5; 1579/1980] END leaf\_size=35, n\_neighbors=94;; score=0.644 total time=0.0s  
 [CV 2/5; 1579/1980] START leaf\_size=35, n\_neighbors=94...  
 [CV 4/5; 1587/1980] END leaf\_size=36, n\_neighbors=3;; score=0.584 total time=0.0s  
 [CV 5/5; 1587/1980] START leaf\_size=36, n\_neighbors=3...  
 [CV 2/5; 1586/1980] END leaf\_size=36, n\_neighbors=2;; score=0.579 total time=0.0s  
 [CV 3/5; 1586/1980] START leaf\_size=36, n\_neighbors=2...  
 [CV 1/5; 1585/1980] END leaf\_size=36, n\_neighbors=1;; score=0.516 total time=0.0s  
 [CV 2/5; 1585/1980] START leaf\_size=36, n\_neighbors=1...  
 [CV 5/5; 1575/1980] END leaf\_size=35, n\_neighbors=90;; score=0.617 total time=0.0s  
 [CV 1/5; 1576/1980] START leaf\_size=35, n\_neighbors=91...  
 [CV 3/5; 1583/1980] END leaf\_size=35, n\_neighbors=98;; score=0.562 total time=0.0s  
 [CV 4/5; 1583/1980] START leaf\_size=35, n\_neighbors=98...  
 [CV 1/5; 1589/1980] END leaf\_size=36, n\_neighbors=5;; score=0.546 total time=0.0s  
 [CV 2/5; 1589/1980] START leaf\_size=36, n\_neighbors=5...  
 [CV 5/5; 1581/1980] END leaf\_size=35, n\_neighbors=96;; score=0.604 total time=0.0s  
 [CV 1/5; 1582/1980] START leaf\_size=35, n\_neighbors=97...  
 [CV 3/5; 1586/1980] END leaf\_size=36, n\_neighbors=2;; score=0.512 total time=0.0s  
 [CV 4/5; 1586/1980] START leaf\_size=36, n\_neighbors=2...  
 [CV 5/5; 1587/1980] END leaf\_size=36, n\_neighbors=3;; score=0.593 total time=0.0s  
 [CV 1/5; 1588/1980] START leaf\_size=36, n\_neighbors=4...  
 [CV 2/5; 1585/1980] END leaf\_size=36, n\_neighbors=1;; score=0.568 total time=0.0s  
 [CV 3/5; 1585/1980] START leaf\_size=36, n\_neighbors=1...  
 [CV 2/5; 1579/1980] END leaf\_size=35, n\_neighbors=94;; score=0.600 total time=0.0s  
 [CV 4/5; 1577/1980] END leaf\_size=35, n\_neighbors=92;; score=0.582 total time=0.0s  
 [CV 4/5; 1590/1980] START leaf\_size=36, n\_neighbors=6...  
 [CV 2/5; 1589/1980] END leaf\_size=36, n\_neighbors=5;; score=0.562 total time=

0.0s  
 [CV 3/5; 1589/1980] START leaf\_size=36, n\_neighbors=5...  
 [CV 2/5; 1592/1980] START leaf\_size=36, n\_neighbors=8...  
 [CV 4/5; 1583/1980] END leaf\_size=35, n\_neighbors=98;; score=0.584 total time=  
 0.0s  
 [CV 5/5; 1583/1980] START leaf\_size=35, n\_neighbors=98...  
 [CV 2/5; 1580/1980] END leaf\_size=35, n\_neighbors=95;; score=0.603 total time=  
 0.0s  
 [CV 3/5; 1580/1980] START leaf\_size=35, n\_neighbors=95...  
 [CV 4/5; 1586/1980] END leaf\_size=36, n\_neighbors=2;; score=0.571 total time=  
 0.0s  
 [CV 5/5; 1586/1980] START leaf\_size=36, n\_neighbors=2...  
 [CV 1/5; 1576/1980] END leaf\_size=35, n\_neighbors=91;; score=0.648 total time=  
 0.0s  
 [CV 5/5; 1593/1980] START leaf\_size=36, n\_neighbors=9...  
 [CV 3/5; 1585/1980] END leaf\_size=36, n\_neighbors=1;; score=0.490 total time=  
 0.0s  
 [CV 1/5; 1588/1980] END leaf\_size=36, n\_neighbors=4;; score=0.562 total time=  
 0.0s  
 [CV 4/5; 1585/1980] START leaf\_size=36, n\_neighbors=1...  
 [CV 2/5; 1588/1980] START leaf\_size=36, n\_neighbors=4...  
 [CV 1/5; 1582/1980] END leaf\_size=35, n\_neighbors=97;; score=0.641 total time=  
 0.0s  
 [CV 2/5; 1582/1980] START leaf\_size=35, n\_neighbors=97...  
 [CV 4/5; 1590/1980] END leaf\_size=36, n\_neighbors=6;; score=0.578 total time=  
 0.0s  
 [CV 5/5; 1590/1980] START leaf\_size=36, n\_neighbors=6...  
 [CV 3/5; 1589/1980] END leaf\_size=36, n\_neighbors=5;; score=0.536 total time=  
 0.0s  
 [CV 4/5; 1589/1980] START leaf\_size=36, n\_neighbors=5...  
 [CV 5/5; 1586/1980] END leaf\_size=36, n\_neighbors=2;; score=0.574 total time=  
 0.0s [CV 2/5; 1592/1980] END leaf\_size=36, n\_neighbors=8;; score=0.551 total  
 time= 0.0s  
  
 [CV 3/5; 1592/1980] START leaf\_size=36, n\_neighbors=8...  
 [CV 1/5; 1587/1980] START leaf\_size=36, n\_neighbors=3...  
 [CV 5/5; 1593/1980] END leaf\_size=36, n\_neighbors=9;; score=0.613 total time=  
 0.0s  
 [CV 1/5; 1594/1980] START leaf\_size=36, n\_neighbors=10...  
 [CV 4/5; 1585/1980] END leaf\_size=36, n\_neighbors=1;; score=0.539 total time=  
 0.0s  
 [CV 5/5; 1583/1980] END leaf\_size=35, n\_neighbors=98;; score=0.606 total time=  
 0.0s  
 [CV 1/5; 1584/1980] START leaf\_size=35, n\_neighbors=99...  
 [CV 2/5; 1588/1980] END leaf\_size=36, n\_neighbors=4;; score=0.581 total time=  
 0.0s  
 [CV 3/5; 1588/1980] START leaf\_size=36, n\_neighbors=4...  
 [CV 3/5; 1580/1980] END leaf\_size=35, n\_neighbors=95;; score=0.566 total time=



0.0s  
 [CV 4/5; 1580/1980] START leaf\_size=35, n\_neighbors=95...  
 [CV 3/5; 1595/1980] START leaf\_size=36, n\_neighbors=11...  
 [CV 5/5; 1590/1980] END leaf\_size=36, n\_neighbors=6;; score=0.582 total time=  
 0.0s  
 [CV 1/5; 1591/1980] START leaf\_size=36, n\_neighbors=7...  
 [CV 4/5; 1589/1980] END leaf\_size=36, n\_neighbors=5;; score=0.589 total time=  
 0.0s  
 [CV 5/5; 1589/1980] START leaf\_size=36, n\_neighbors=5...  
 [CV 2/5; 1582/1980] END leaf\_size=35, n\_neighbors=97;; score=0.594 total time=  
 0.0s  
 [CV 3/5; 1582/1980] START leaf\_size=35, n\_neighbors=97...  
 [CV 1/5; 1587/1980] END leaf\_size=36, n\_neighbors=3;; score=0.557 total time=  
 0.0s  
 [CV 2/5; 1587/1980] START leaf\_size=36, n\_neighbors=3...  
 [CV 1/5; 1594/1980] END leaf\_size=36, n\_neighbors=10;; score=0.611 total time=  
 0.0s  
 [CV 2/5; 1594/1980] START leaf\_size=36, n\_neighbors=10...  
 [CV 3/5; 1592/1980] END leaf\_size=36, n\_neighbors=8;; score=0.551 total time=  
 0.0s  
 [CV 4/5; 1592/1980] START leaf\_size=36, n\_neighbors=8...  
 [CV 3/5; 1588/1980] END leaf\_size=36, n\_neighbors=4;; score=0.544 total time=  
 0.0s  
 [CV 4/5; 1588/1980] START leaf\_size=36, n\_neighbors=4...  
 [CV 3/5; 1595/1980] END leaf\_size=36, n\_neighbors=11;; score=0.551 total time=  
 0.0s  
 [CV 4/5; 1595/1980] START leaf\_size=36, n\_neighbors=11...  
 [CV 5/5; 1589/1980] END leaf\_size=36, n\_neighbors=5;; score=0.591 total time=  
 0.0s  
 [CV 1/5; 1590/1980] START leaf\_size=36, n\_neighbors=6...  
 [CV 1/5; 1591/1980] END leaf\_size=36, n\_neighbors=7;; score=0.568 total time=  
 0.0s  
 [CV 2/5; 1591/1980] START leaf\_size=36, n\_neighbors=7...  
 [CV 4/5; 1580/1980] END leaf\_size=35, n\_neighbors=95;; score=0.584 total time=  
 0.0s  
 [CV 5/5; 1580/1980] START leaf\_size=35, n\_neighbors=95...  
 [CV 1/5; 1584/1980] END leaf\_size=35, n\_neighbors=99;; score=0.641 total time=  
 0.0s  
 [CV 2/5; 1587/1980] END leaf\_size=36, n\_neighbors=3;; score=0.579 total time=  
 0.0s  
 [CV 4/5; 1598/1980] START leaf\_size=36, n\_neighbors=14...  
 [CV 1/5; 1597/1980] START leaf\_size=36, n\_neighbors=13...  
 [CV 4/5; 1588/1980] END leaf\_size=36, n\_neighbors=4;; score=0.580 total time=  
 0.0s  
 [CV 5/5; 1588/1980] START leaf\_size=36, n\_neighbors=4...  
 [CV 4/5; 1592/1980] END leaf\_size=36, n\_neighbors=8;; score=0.617 total time=  
 0.0s  
 [CV 5/5; 1592/1980] START leaf\_size=36, n\_neighbors=8...

[CV 2/5; 1594/1980] END leaf\_size=36, n\_neighbors=10;; score=0.568 total time=0.0s  
 [CV 3/5; 1594/1980] START leaf\_size=36, n\_neighbors=10...  
 [CV 2/5; 1591/1980] END leaf\_size=36, n\_neighbors=7;; score=0.559 total time=0.0s  
 [CV 4/5; 1595/1980] END leaf\_size=36, n\_neighbors=11;; score=0.589 total time=0.0s  
 [CV 3/5; 1591/1980] START leaf\_size=36, n\_neighbors=7...  
  
 [CV 5/5; 1595/1980] START leaf\_size=36, n\_neighbors=11...  
 [CV 1/5; 1590/1980] END leaf\_size=36, n\_neighbors=6;; score=0.570 total time=0.0s  
 [CV 2/5; 1590/1980] START leaf\_size=36, n\_neighbors=6...  
 [CV 3/5; 1582/1980] END leaf\_size=35, n\_neighbors=97;; score=0.564 total time=0.0s  
 [CV 2/5; 1600/1980] START leaf\_size=36, n\_neighbors=16...  
 [CV 5/5; 1580/1980] END leaf\_size=35, n\_neighbors=95;; score=0.608 total time=0.0s  
 [CV 5/5; 1588/1980] END leaf\_size=36, n\_neighbors=4;; score=0.593 total time=0.0s  
 [CV 5/5; 1601/1980] START leaf\_size=36, n\_neighbors=17...  
 [CV 3/5; 1603/1980] START leaf\_size=36, n\_neighbors=19...  
 [CV 4/5; 1598/1980] END leaf\_size=36, n\_neighbors=14;; score=0.584 total time=0.0s  
 [CV 5/5; 1598/1980] START leaf\_size=36, n\_neighbors=14...  
 [CV 3/5; 1591/1980] END leaf\_size=36, n\_neighbors=7;; score=0.551 total time=0.0s  
 [CV 4/5; 1591/1980] START leaf\_size=36, n\_neighbors=7...  
 [CV 2/5; 1590/1980] END leaf\_size=36, n\_neighbors=6;; score=0.546 total time=0.0s  
 [CV 3/5; 1590/1980] START leaf\_size=36, n\_neighbors=6...  
 [CV 5/5; 1595/1980] END leaf\_size=36, n\_neighbors=11;; score=0.606 total time=0.0s  
 [CV 1/5; 1596/1980] START leaf\_size=36, n\_neighbors=12...  
 [CV 1/5; 1597/1980] END leaf\_size=36, n\_neighbors=13;; score=0.633 total time=0.0s  
 [CV 5/5; 1592/1980] END leaf\_size=36, n\_neighbors=8;; score=0.608 total time=0.0s  
 [CV 2/5; 1597/1980] START leaf\_size=36, n\_neighbors=13...  
  
 [CV 1/5; 1593/1980] START leaf\_size=36, n\_neighbors=9...  
 [CV 2/5; 1600/1980] END leaf\_size=36, n\_neighbors=16;; score=0.575 total time=0.0s  
 [CV 3/5; 1600/1980] START leaf\_size=36, n\_neighbors=16...  
 [CV 5/5; 1601/1980] END leaf\_size=36, n\_neighbors=17;; score=0.610 total time=0.0s  
 [CV 1/5; 1602/1980] START leaf\_size=36, n\_neighbors=18...  
 [CV 4/5; 1591/1980] END leaf\_size=36, n\_neighbors=7;; score=0.584 total time=

0.0s  
 [CV 5/5; 1591/1980] START leaf\_size=36, n\_neighbors=7...  
 [CV 5/5; 1598/1980] END leaf\_size=36, n\_neighbors=14;; score=0.606 total time=  
 0.0s  
 [CV 1/5; 1599/1980] START leaf\_size=36, n\_neighbors=15...  
 [CV 3/5; 1603/1980] END leaf\_size=36, n\_neighbors=19;; score=0.551 total time=  
 0.0s  
 [CV 4/5; 1603/1980] START leaf\_size=36, n\_neighbors=19...  
 [CV 3/5; 1590/1980] END leaf\_size=36, n\_neighbors=6;; score=0.555 total time=  
 0.0s  
 [CV 1/5; 1605/1980] START leaf\_size=36, n\_neighbors=21...  
 [CV 1/5; 1596/1980] END leaf\_size=36, n\_neighbors=12;; score=0.648 total time=  
 0.0s  
 [CV 2/5; 1596/1980] START leaf\_size=36, n\_neighbors=12...  
 [CV 3/5; 1594/1980] END leaf\_size=36, n\_neighbors=10;; score=0.549 total time=  
 0.1s  
 [CV 4/5; 1594/1980] START leaf\_size=36, n\_neighbors=10...  
 [CV 1/5; 1593/1980] END leaf\_size=36, n\_neighbors=9;; score=0.592 total time=  
 0.0s  
 [CV 2/5; 1593/1980] START leaf\_size=36, n\_neighbors=9...  
 [CV 2/5; 1597/1980] END leaf\_size=36, n\_neighbors=13;; score=0.570 total time=  
 0.0s  
 [CV 3/5; 1597/1980] START leaf\_size=36, n\_neighbors=13...  
 [CV 3/5; 1600/1980] END leaf\_size=36, n\_neighbors=16;; score=0.557 total time=  
 0.0s  
 [CV 4/5; 1600/1980] START leaf\_size=36, n\_neighbors=16...  
 [CV 5/5; 1591/1980] END leaf\_size=36, n\_neighbors=7;; score=0.613 total time=  
 0.0s  
 [CV 1/5; 1592/1980] START leaf\_size=36, n\_neighbors=8...  
 [CV 1/5; 1599/1980] END leaf\_size=36, n\_neighbors=15;; score=0.637 total time=  
 0.0s  
 [CV 2/5; 1599/1980] START leaf\_size=36, n\_neighbors=15...  
 [CV 4/5; 1603/1980] END leaf\_size=36, n\_neighbors=19;; score=0.589 total time=  
 0.0s  
 [CV 5/5; 1603/1980] START leaf\_size=36, n\_neighbors=19...  
 [CV 1/5; 1605/1980] END leaf\_size=36, n\_neighbors=21;; score=0.626 total time=  
 0.0s  
 [CV 2/5; 1605/1980] START leaf\_size=36, n\_neighbors=21...  
 [CV 2/5; 1596/1980] END leaf\_size=36, n\_neighbors=12;; score=0.581 total time=  
 0.0s  
 [CV 3/5; 1596/1980] START leaf\_size=36, n\_neighbors=12...  
 [CV 1/5; 1602/1980] END leaf\_size=36, n\_neighbors=18;; score=0.635 total time=  
 0.0s  
 [CV 2/5; 1602/1980] START leaf\_size=36, n\_neighbors=18...  
 [CV 4/5; 1600/1980] END leaf\_size=36, n\_neighbors=16;; score=0.584 total time=  
 0.0s  
 [CV 5/5; 1600/1980] START leaf\_size=36, n\_neighbors=16...  
 [CV 2/5; 1593/1980] END leaf\_size=36, n\_neighbors=9;; score=0.570 total time=

0.0s  
 [CV 3/5; 1593/1980] START leaf\_size=36, n\_neighbors=9...  
 [CV 4/5; 1594/1980] END leaf\_size=36, n\_neighbors=10;; score=0.597 total time=  
 0.0s  
 [CV 5/5; 1594/1980] START leaf\_size=36, n\_neighbors=10...  
 [CV 1/5; 1592/1980] END leaf\_size=36, n\_neighbors=8;; score=0.568 total time=  
 0.0s  
 [CV 4/5; 1606/1980] START leaf\_size=36, n\_neighbors=22...  
 [CV 3/5; 1597/1980] END leaf\_size=36, n\_neighbors=13;; score=0.553 total time=  
 0.0s[CV 2/5; 1599/1980] END leaf\_size=36, n\_neighbors=15;; score=0.570 total  
 time= 0.0s  
 [CV 3/5; 1599/1980] START leaf\_size=36, n\_neighbors=15...  
  
 [CV 4/5; 1597/1980] START leaf\_size=36, n\_neighbors=13...  
 [CV 5/5; 1603/1980] END leaf\_size=36, n\_neighbors=19;; score=0.626 total time=  
 0.0s  
 [CV 1/5; 1604/1980] START leaf\_size=36, n\_neighbors=20...  
 [CV 2/5; 1605/1980] END leaf\_size=36, n\_neighbors=21;; score=0.581 total time=  
 0.0s  
 [CV 3/5; 1605/1980] START leaf\_size=36, n\_neighbors=21...  
 [CV 3/5; 1596/1980] END leaf\_size=36, n\_neighbors=12;; score=0.546 total time=  
 0.0s  
 [CV 4/5; 1596/1980] START leaf\_size=36, n\_neighbors=12...  
 [CV 2/5; 1602/1980] END leaf\_size=36, n\_neighbors=18;; score=0.590 total time=  
 0.0s  
 [CV 3/5; 1602/1980] START leaf\_size=36, n\_neighbors=18...  
 [CV 5/5; 1600/1980] END leaf\_size=36, n\_neighbors=16;; score=0.621 total time=  
 0.0s  
 [CV 1/5; 1601/1980] START leaf\_size=36, n\_neighbors=17...  
 [CV 5/5; 1594/1980] END leaf\_size=36, n\_neighbors=10;; score=0.615 total time=  
 0.0s  
 [CV 1/5; 1595/1980] START leaf\_size=36, n\_neighbors=11...  
 [CV 4/5; 1606/1980] END leaf\_size=36, n\_neighbors=22;; score=0.600 total time=  
 0.0s  
 [CV 5/5; 1606/1980] START leaf\_size=36, n\_neighbors=22...  
 [CV 3/5; 1599/1980] END leaf\_size=36, n\_neighbors=15;; score=0.557 total time=  
 0.0s  
 [CV 4/5; 1599/1980] START leaf\_size=36, n\_neighbors=15...  
 [CV 3/5; 1593/1980] END leaf\_size=36, n\_neighbors=9;; score=0.559 total time=  
 0.0s  
 [CV 4/5; 1593/1980] START leaf\_size=36, n\_neighbors=9...  
 [CV 1/5; 1604/1980] END leaf\_size=36, n\_neighbors=20;; score=0.618 total time=  
 0.0s  
 [CV 2/5; 1604/1980] START leaf\_size=36, n\_neighbors=20...  
 [CV 3/5; 1605/1980] END leaf\_size=36, n\_neighbors=21;; score=0.559 total time=  
 0.0s  
 [CV 4/5; 1605/1980] START leaf\_size=36, n\_neighbors=21...  
 [CV 4/5; 1596/1980] END leaf\_size=36, n\_neighbors=12;; score=0.576 total time=

0.0s  
 [CV 5/5; 1596/1980] START leaf\_size=36, n\_neighbors=12...  
 [CV 3/5; 1602/1980] END leaf\_size=36, n\_neighbors=18;;, score=0.555 total time=  
 0.0s  
 [CV 4/5; 1602/1980] START leaf\_size=36, n\_neighbors=18...  
 [CV 4/5; 1597/1980] END leaf\_size=36, n\_neighbors=13;;, score=0.574 total time=  
 0.0s  
 [CV 5/5; 1597/1980] START leaf\_size=36, n\_neighbors=13...  
 [CV 1/5; 1601/1980] END leaf\_size=36, n\_neighbors=17;;, score=0.631 total time=  
 0.0s  
 [CV 2/5; 1601/1980] START leaf\_size=36, n\_neighbors=17...  
 [CV 5/5; 1606/1980] END leaf\_size=36, n\_neighbors=22;;, score=0.628 total time=  
 0.0s  
 [CV 1/5; 1607/1980] START leaf\_size=36, n\_neighbors=23...  
 [CV 4/5; 1599/1980] END leaf\_size=36, n\_neighbors=15;;, score=0.584 total time=  
 0.0s  
 [CV 5/5; 1599/1980] START leaf\_size=36, n\_neighbors=15...  
 [CV 1/5; 1595/1980] END leaf\_size=36, n\_neighbors=11;;, score=0.624 total time=  
 0.0s  
 [CV 2/5; 1595/1980] START leaf\_size=36, n\_neighbors=11...  
 [CV 4/5; 1593/1980] END leaf\_size=36, n\_neighbors=9;;, score=0.589 total time=  
 0.0s  
 [CV 2/5; 1604/1980] END leaf\_size=36, n\_neighbors=20;;, score=0.583 total time=  
 0.0s  
 [CV 3/5; 1604/1980] START leaf\_size=36, n\_neighbors=20...  
 [CV 4/5; 1602/1980] END leaf\_size=36, n\_neighbors=18;;, score=0.600 total time=  
 0.0s  
 [CV 5/5; 1602/1980] START leaf\_size=36, n\_neighbors=18...  
 [CV 4/5; 1605/1980] END leaf\_size=36, n\_neighbors=21;;, score=0.606 total time=  
 0.0s  
 [CV 5/5; 1605/1980] START leaf\_size=36, n\_neighbors=21...  
 [CV 5/5; 1596/1980] END leaf\_size=36, n\_neighbors=12;;, score=0.613 total time=  
 0.0s  
 [CV 2/5; 1608/1980] START leaf\_size=36, n\_neighbors=24...  
 [CV 5/5; 1597/1980] END leaf\_size=36, n\_neighbors=13;;, score=0.591 total time=  
 0.0s  
 [CV 1/5; 1607/1980] END leaf\_size=36, n\_neighbors=23;;, score=0.646 total time=  
 0.0s  
 [CV 1/5; 1598/1980] START leaf\_size=36, n\_neighbors=14...  
 [CV 2/5; 1607/1980] START leaf\_size=36, n\_neighbors=23...  
 [CV 5/5; 1609/1980] START leaf\_size=36, n\_neighbors=25...  
 [CV 2/5; 1601/1980] END leaf\_size=36, n\_neighbors=17;;, score=0.568 total time=  
 0.0s  
 [CV 3/5; 1601/1980] START leaf\_size=36, n\_neighbors=17...  
 [CV 5/5; 1599/1980] END leaf\_size=36, n\_neighbors=15;;, score=0.615 total time=  
 0.0s  
 [CV 1/5; 1600/1980] START leaf\_size=36, n\_neighbors=16...  
 [CV 3/5; 1604/1980] END leaf\_size=36, n\_neighbors=20;;, score=0.553 total time=

0.0s  
 [CV 4/5; 1604/1980] START leaf\_size=36, n\_neighbors=20...  
 [CV 5/5; 1602/1980] END leaf\_size=36, n\_neighbors=18;; score=0.617 total time=  
 0.0s  
 [CV 5/5; 1605/1980] END leaf\_size=36, n\_neighbors=21;; score=0.621 total time=  
 0.0s  
 [CV 1/5; 1603/1980] START leaf\_size=36, n\_neighbors=19...  
 [CV 1/5; 1606/1980] START leaf\_size=36, n\_neighbors=22...  
 [CV 2/5; 1595/1980] END leaf\_size=36, n\_neighbors=11;; score=0.579 total time=  
 0.0s  
 [CV 1/5; 1598/1980] END leaf\_size=36, n\_neighbors=14;; score=0.644 total time=  
 0.0s  
 [CV 2/5; 1608/1980] END leaf\_size=36, n\_neighbors=24;; score=0.596 total time=  
 0.0s  
 [CV 2/5; 1598/1980] START leaf\_size=36, n\_neighbors=14...  
 [CV 3/5; 1608/1980] START leaf\_size=36, n\_neighbors=24...  
 [CV 5/5; 1609/1980] END leaf\_size=36, n\_neighbors=25;; score=0.647 total time=  
 0.0s  
 [CV 1/5; 1610/1980] START leaf\_size=36, n\_neighbors=26...  
 [CV 3/5; 1601/1980] END leaf\_size=36, n\_neighbors=17;; score=0.564 total time=  
 0.0s  
 [CV 4/5; 1601/1980] START leaf\_size=36, n\_neighbors=17...  
 [CV 3/5; 1611/1980] START leaf\_size=36, n\_neighbors=27...  
 [CV 1/5; 1600/1980] END leaf\_size=36, n\_neighbors=16;; score=0.637 total time=  
 0.0s  
 [CV 2/5; 1607/1980] END leaf\_size=36, n\_neighbors=23;; score=0.583 total time=  
 0.0s  
 [CV 3/5; 1607/1980] START leaf\_size=36, n\_neighbors=23...  
 [CV 1/5; 1613/1980] START leaf\_size=36, n\_neighbors=29...  
 [CV 1/5; 1603/1980] END leaf\_size=36, n\_neighbors=19;; score=0.637 total time=  
 0.0s  
 [CV 2/5; 1603/1980] START leaf\_size=36, n\_neighbors=19...  
 [CV 4/5; 1604/1980] END leaf\_size=36, n\_neighbors=20;; score=0.600 total time=  
 0.0s  
 [CV 5/5; 1604/1980] START leaf\_size=36, n\_neighbors=20...  
 [CV 1/5; 1606/1980] END leaf\_size=36, n\_neighbors=22;; score=0.622 total time=  
 0.0s  
 [CV 2/5; 1606/1980] START leaf\_size=36, n\_neighbors=22...  
 [CV 2/5; 1598/1980] END leaf\_size=36, n\_neighbors=14;; score=0.572 total time=  
 0.0s  
 [CV 3/5; 1598/1980] START leaf\_size=36, n\_neighbors=14...  
 [CV 3/5; 1608/1980] END leaf\_size=36, n\_neighbors=24;; score=0.564 total time=  
 0.0s  
 [CV 4/5; 1608/1980] START leaf\_size=36, n\_neighbors=24...  
 [CV 4/5; 1601/1980] END leaf\_size=36, n\_neighbors=17;; score=0.580 total time=  
 0.0s  
 [CV 4/5; 1614/1980] START leaf\_size=36, n\_neighbors=30...  
 [CV 1/5; 1610/1980] END leaf\_size=36, n\_neighbors=26;; score=0.639 total time=

0.0s  
 [CV 2/5; 1610/1980] START leaf\_size=36, n\_neighbors=26...  
 [CV 1/5; 1613/1980] END leaf\_size=36, n\_neighbors=29;; score=0.646 total time=  
 0.0s  
 [CV 2/5; 1613/1980] START leaf\_size=36, n\_neighbors=29...  
 [CV 5/5; 1604/1980] END leaf\_size=36, n\_neighbors=20;; score=0.632 total time=  
 0.0s  
 [CV 2/5; 1603/1980] END leaf\_size=36, n\_neighbors=19;; score=0.583 total time=  
 0.0s  
 [CV 2/5; 1606/1980] END leaf\_size=36, n\_neighbors=22;; score=0.587 total time=  
 0.0s  
 [CV 3/5; 1606/1980] START leaf\_size=36, n\_neighbors=22...  
 [CV 2/5; 1616/1980] START leaf\_size=36, n\_neighbors=32...  
 [CV 5/5; 1617/1980] START leaf\_size=36, n\_neighbors=33...  
 [CV 3/5; 1598/1980] END leaf\_size=36, n\_neighbors=14;; score=0.544 total time=  
 0.0s  
 [CV 4/5; 1608/1980] END leaf\_size=36, n\_neighbors=24;; score=0.597 total time=  
 0.0s  
 [CV 5/5; 1608/1980] START leaf\_size=36, n\_neighbors=24...  
 [CV 3/5; 1619/1980] START leaf\_size=36, n\_neighbors=35...  
 [CV 3/5; 1611/1980] END leaf\_size=36, n\_neighbors=27;; score=0.568 total time=  
 0.1s  
 [CV 4/5; 1611/1980] START leaf\_size=36, n\_neighbors=27...  
 [CV 4/5; 1614/1980] END leaf\_size=36, n\_neighbors=30;; score=0.595 total time=  
 0.0s  
 [CV 2/5; 1610/1980] END leaf\_size=36, n\_neighbors=26;; score=0.600 total time=  
 0.0s  
 [CV 5/5; 1614/1980] START leaf\_size=36, n\_neighbors=30...  
 [CV 3/5; 1610/1980] START leaf\_size=36, n\_neighbors=26...  
 [CV 3/5; 1607/1980] END leaf\_size=36, n\_neighbors=23;; score=0.557 total time=  
 0.0s  
 [CV 4/5; 1607/1980] START leaf\_size=36, n\_neighbors=23...  
 [CV 2/5; 1613/1980] END leaf\_size=36, n\_neighbors=29;; score=0.600 total time=  
 0.0s  
 [CV 3/5; 1613/1980] START leaf\_size=36, n\_neighbors=29...  
 [CV 3/5; 1606/1980] END leaf\_size=36, n\_neighbors=22;; score=0.555 total time=  
 0.0s  
 [CV 1/5; 1621/1980] START leaf\_size=36, n\_neighbors=37...  
 [CV 2/5; 1616/1980] END leaf\_size=36, n\_neighbors=32;; score=0.605 total time=  
 0.0s  
 [CV 3/5; 1616/1980] START leaf\_size=36, n\_neighbors=32...  
 [CV 5/5; 1608/1980] END leaf\_size=36, n\_neighbors=24;; score=0.647 total time=  
 0.0s  
 [CV 1/5; 1609/1980] START leaf\_size=36, n\_neighbors=25...  
 [CV 3/5; 1610/1980] END leaf\_size=36, n\_neighbors=26;; score=0.564 total time=  
 0.0s  
 [CV 4/5; 1610/1980] START leaf\_size=36, n\_neighbors=26...  
 [CV 3/5; 1619/1980] END leaf\_size=36, n\_neighbors=35;; score=0.572 total time=

0.0s  
[CV 4/5; 1619/1980] START leaf\_size=36, n\_neighbors=35...  
[CV 5/5; 1614/1980] END leaf\_size=36, n\_neighbors=30;; score=0.632 total time=0.0s  
[CV 1/5; 1615/1980] START leaf\_size=36, n\_neighbors=31...  
[CV 4/5; 1607/1980] END leaf\_size=36, n\_neighbors=23;; score=0.600 total time=0.0s  
[CV 5/5; 1607/1980] START leaf\_size=36, n\_neighbors=23...  
[CV 5/5; 1617/1980] END leaf\_size=36, n\_neighbors=33;; score=0.630 total time=0.0s  
[CV 1/5; 1618/1980] START leaf\_size=36, n\_neighbors=34...  
[CV 3/5; 1613/1980] END leaf\_size=36, n\_neighbors=29;; score=0.577 total time=0.0s  
[CV 4/5; 1613/1980] START leaf\_size=36, n\_neighbors=29...  
[CV 4/5; 1611/1980] END leaf\_size=36, n\_neighbors=27;; score=0.593 total time=0.0s  
[CV 5/5; 1611/1980] START leaf\_size=36, n\_neighbors=27...  
[CV 1/5; 1621/1980] END leaf\_size=36, n\_neighbors=37;; score=0.657 total time=0.0s  
[CV 2/5; 1621/1980] START leaf\_size=36, n\_neighbors=37...  
[CV 4/5; 1610/1980] END leaf\_size=36, n\_neighbors=26;; score=0.593 total time=0.0s  
[CV 5/5; 1610/1980] START leaf\_size=36, n\_neighbors=26...  
[CV 3/5; 1616/1980] END leaf\_size=36, n\_neighbors=32;; score=0.577 total time=0.0s  
[CV 4/5; 1616/1980] START leaf\_size=36, n\_neighbors=32...  
[CV 1/5; 1609/1980] END leaf\_size=36, n\_neighbors=25;; score=0.646 total time=0.0s  
[CV 2/5; 1609/1980] START leaf\_size=36, n\_neighbors=25...  
[CV 1/5; 1615/1980] END leaf\_size=36, n\_neighbors=31;; score=0.644 total time=0.0s  
[CV 2/5; 1615/1980] START leaf\_size=36, n\_neighbors=31...  
[CV 5/5; 1607/1980] END leaf\_size=36, n\_neighbors=23;; score=0.643 total time=0.0s  
[CV 1/5; 1608/1980] START leaf\_size=36, n\_neighbors=24...  
[CV 4/5; 1619/1980] END leaf\_size=36, n\_neighbors=35;; score=0.604 total time=0.0s  
[CV 5/5; 1619/1980] START leaf\_size=36, n\_neighbors=35...  
[CV 1/5; 1618/1980] END leaf\_size=36, n\_neighbors=34;; score=0.644 total time=0.0s  
[CV 2/5; 1618/1980] START leaf\_size=36, n\_neighbors=34...  
[CV 4/5; 1613/1980] END leaf\_size=36, n\_neighbors=29;; score=0.600 total time=0.0s  
[CV 5/5; 1613/1980] START leaf\_size=36, n\_neighbors=29...  
[CV 5/5; 1610/1980] END leaf\_size=36, n\_neighbors=26;; score=0.628 total time=0.0s  
[CV 1/5; 1611/1980] START leaf\_size=36, n\_neighbors=27...  
[CV 2/5; 1621/1980] END leaf\_size=36, n\_neighbors=37;; score=0.607 total time=



0.0s  
 [CV 3/5; 1621/1980] START leaf\_size=36, n\_neighbors=37...  
 [CV 5/5; 1611/1980] END leaf\_size=36, n\_neighbors=27;; score=0.630 total time=  
 0.0s  
 [CV 1/5; 1612/1980] START leaf\_size=36, n\_neighbors=28...  
 [CV 4/5; 1616/1980] END leaf\_size=36, n\_neighbors=32;; score=0.593 total time=  
 0.0s  
 [CV 5/5; 1616/1980] START leaf\_size=36, n\_neighbors=32...  
 [CV 2/5; 1609/1980] END leaf\_size=36, n\_neighbors=25;; score=0.598 total time=  
 0.0s  
 [CV 3/5; 1609/1980] START leaf\_size=36, n\_neighbors=25...  
 [CV 2/5; 1615/1980] END leaf\_size=36, n\_neighbors=31;; score=0.603 total time=  
 0.0s  
 [CV 3/5; 1615/1980] START leaf\_size=36, n\_neighbors=31...  
 [CV 1/5; 1608/1980] END leaf\_size=36, n\_neighbors=24;; score=0.646 total time=  
 0.0s  
 [CV 5/5; 1619/1980] END leaf\_size=36, n\_neighbors=35;; score=0.639 total time=  
 0.0s  
 [CV 1/5; 1620/1980] START leaf\_size=36, n\_neighbors=36...  
 [CV 2/5; 1618/1980] END leaf\_size=36, n\_neighbors=34;; score=0.600 total time=  
 0.0s  
 [CV 3/5; 1618/1980] START leaf\_size=36, n\_neighbors=34...  
 [CV 4/5; 1622/1980] START leaf\_size=36, n\_neighbors=38...  
 [CV 5/5; 1613/1980] END leaf\_size=36, n\_neighbors=29;; score=0.639 total time=  
 0.0s  
 [CV 1/5; 1614/1980] START leaf\_size=36, n\_neighbors=30...  
 [CV 1/5; 1611/1980] END leaf\_size=36, n\_neighbors=27;; score=0.650 total time=  
 0.0s  
 [CV 2/5; 1611/1980] START leaf\_size=36, n\_neighbors=27...  
 [CV 3/5; 1621/1980] END leaf\_size=36, n\_neighbors=37;; score=0.568 total time=  
 0.0s  
 [CV 4/5; 1621/1980] START leaf\_size=36, n\_neighbors=37...  
 [CV 3/5; 1615/1980] END leaf\_size=36, n\_neighbors=31;; score=0.570 total time=  
 0.0s  
 [CV 4/5; 1615/1980] START leaf\_size=36, n\_neighbors=31...  
 [CV 5/5; 1616/1980] END leaf\_size=36, n\_neighbors=32;; score=0.628 total time=  
 0.0s  
 [CV 3/5; 1609/1980] END leaf\_size=36, n\_neighbors=25;; score=0.557 total time=  
 0.0s  
 [CV 4/5; 1609/1980] START leaf\_size=36,  
 n\_neighbors=25...[CV 1/5; 1617/1980] START leaf\_size=36,  
 n\_neighbors=33...  
  
 [CV 4/5; 1622/1980] END leaf\_size=36, n\_neighbors=38;; score=0.602 total time=  
 0.0s  
 [CV 5/5; 1622/1980] START leaf\_size=36, n\_neighbors=38...  
 [CV 1/5; 1620/1980] END leaf\_size=36, n\_neighbors=36;; score=0.644 total time=  
 0.0s

[CV 2/5; 1620/1980] START leaf\_size=36, n\_neighbors=36...  
 [CV 1/5; 1614/1980] END leaf\_size=36, n\_neighbors=30;; score=0.639 total time=0.0s  
 [CV 2/5; 1614/1980] START leaf\_size=36, n\_neighbors=30...  
 [CV 2/5; 1611/1980] END leaf\_size=36, n\_neighbors=27;; score=0.594 total time=0.0s  
 [CV 2/5; 1624/1980] START leaf\_size=36, n\_neighbors=40...  
 [CV 1/5; 1612/1980] END leaf\_size=36, n\_neighbors=28;; score=0.650 total time=0.1s  
 [CV 2/5; 1612/1980] START leaf\_size=36, n\_neighbors=28...  
 [CV 4/5; 1615/1980] END leaf\_size=36, n\_neighbors=31;; score=0.595 total time=0.0s  
 [CV 5/5; 1615/1980] START leaf\_size=36, n\_neighbors=31...  
 [CV 5/5; 1622/1980] END leaf\_size=36, n\_neighbors=38;; score=0.634 total time=0.0s  
 [CV 1/5; 1623/1980] START leaf\_size=36, n\_neighbors=39...  
 [CV 4/5; 1609/1980] END leaf\_size=36, n\_neighbors=25;; score=0.587 total time=0.0s  
 [CV 3/5; 1618/1980] END leaf\_size=36, n\_neighbors=34;; score=0.577 total time=0.1s  
 [CV 4/5; 1618/1980] START leaf\_size=36, n\_neighbors=34...  
 [CV 2/5; 1614/1980] END leaf\_size=36, n\_neighbors=30;; score=0.607 total time=0.0s  
 [CV 3/5; 1614/1980] START leaf\_size=36, n\_neighbors=30...  
 [CV 2/5; 1620/1980] END leaf\_size=36, n\_neighbors=36;; score=0.616 total time=0.0s  
 [CV 3/5; 1620/1980] START leaf\_size=36, n\_neighbors=36...  
 [CV 4/5; 1621/1980] END leaf\_size=36, n\_neighbors=37;; score=0.610 total time=0.0s  
 [CV 5/5; 1621/1980] START leaf\_size=36, n\_neighbors=37...  
 [CV 1/5; 1617/1980] END leaf\_size=36, n\_neighbors=33;; score=0.646 total time=0.0s  
 [CV 2/5; 1617/1980] START leaf\_size=36, n\_neighbors=33...  
 [CV 5/5; 1625/1980] START leaf\_size=36, n\_neighbors=41...  
 [CV 2/5; 1612/1980] END leaf\_size=36, n\_neighbors=28;; score=0.598 total time=0.0s  
 [CV 3/5; 1612/1980] START leaf\_size=36, n\_neighbors=28...  
 [CV 2/5; 1624/1980] END leaf\_size=36, n\_neighbors=40;; score=0.611 total time=0.0s  
 [CV 3/5; 1624/1980] START leaf\_size=36, n\_neighbors=40...  
 [CV 4/5; 1618/1980] END leaf\_size=36, n\_neighbors=34;; score=0.597 total time=0.0s  
 [CV 5/5; 1618/1980] START leaf\_size=36, n\_neighbors=34...  
 [CV 1/5; 1623/1980] END leaf\_size=36, n\_neighbors=39;; score=0.654 total time=0.0s  
 [CV 2/5; 1623/1980] START leaf\_size=36, n\_neighbors=39...  
 [CV 5/5; 1615/1980] END leaf\_size=36, n\_neighbors=31;; score=0.634 total time=0.0s

[CV 1/5; 1616/1980] START leaf\_size=36, n\_neighbors=32...  
 [CV 3/5; 1614/1980] END leaf\_size=36, n\_neighbors=30;; score=0.579 total time=0.0s  
 [CV 3/5; 1620/1980] END leaf\_size=36, n\_neighbors=36;; score=0.566 total time=0.0s  
 [CV 4/5; 1620/1980] START leaf\_size=36, n\_neighbors=36...  
 [CV 3/5; 1627/1980] START leaf\_size=36, n\_neighbors=43...  
 [CV 5/5; 1621/1980] END leaf\_size=36, n\_neighbors=37;; score=0.628 total time=0.0s  
 [CV 2/5; 1617/1980] END leaf\_size=36, n\_neighbors=33;; score=0.607 total time= 0.0s  
  
 [CV 3/5; 1617/1980] START leaf\_size=36, n\_neighbors=33...  
 [CV 1/5; 1622/1980] START leaf\_size=36, n\_neighbors=38...  
 [CV 5/5; 1625/1980] END leaf\_size=36, n\_neighbors=41;; score=0.619 total time=0.0s  
 [CV 1/5; 1626/1980] START leaf\_size=36, n\_neighbors=42...  
 [CV 3/5; 1612/1980] END leaf\_size=36, n\_neighbors=28;; score=0.568 total time=0.0s  
 [CV 4/5; 1612/1980] START leaf\_size=36, n\_neighbors=28...  
 [CV 3/5; 1624/1980] END leaf\_size=36, n\_neighbors=40;; score=0.572 total time=0.0s  
 [CV 4/5; 1624/1980] START leaf\_size=36, n\_neighbors=40...  
 [CV 5/5; 1618/1980] END leaf\_size=36, n\_neighbors=34;; score=0.634 total time=0.0s  
 [CV 1/5; 1619/1980] START leaf\_size=36, n\_neighbors=35...  
 [CV 2/5; 1623/1980] END leaf\_size=36, n\_neighbors=39;; score=0.609 total time=0.0s  
 [CV 3/5; 1623/1980] START leaf\_size=36, n\_neighbors=39...  
 [CV 1/5; 1616/1980] END leaf\_size=36, n\_neighbors=32;; score=0.639 total time=0.0s  
 [CV 3/5; 1627/1980] END leaf\_size=36, n\_neighbors=43;; score=0.566 total time=0.0s  
 [CV 4/5; 1627/1980] START leaf\_size=36, n\_neighbors=43...  
 [CV 3/5; 1617/1980] END leaf\_size=36, n\_neighbors=33;; score=0.570 total time=0.0s  
 [CV 4/5; 1617/1980] START leaf\_size=36, n\_neighbors=33...  
 [CV 4/5; 1620/1980] END leaf\_size=36, n\_neighbors=36;; score=0.600 total time=0.0s  
 [CV 5/5; 1620/1980] START leaf\_size=36, n\_neighbors=36...  
 [CV 1/5; 1622/1980] END leaf\_size=36, n\_neighbors=38;; score=0.652 total time=0.0s  
 [CV 2/5; 1622/1980] START leaf\_size=36, n\_neighbors=38...  
 [CV 1/5; 1626/1980] END leaf\_size=36, n\_neighbors=42;; score=0.667 total time=0.0s  
 [CV 2/5; 1626/1980] START leaf\_size=36, n\_neighbors=42...  
 [CV 4/5; 1612/1980] END leaf\_size=36, n\_neighbors=28;; score=0.597 total time=0.0s  
 [CV 5/5; 1612/1980] START leaf\_size=36, n\_neighbors=28...

[CV 1/5; 1629/1980] START leaf\_size=36, n\_neighbors=45...  
 [CV 4/5; 1624/1980] END leaf\_size=36, n\_neighbors=40;; score=0.595 total time=0.0s  
 [CV 5/5; 1624/1980] START leaf\_size=36, n\_neighbors=40...  
 [CV 1/5; 1619/1980] END leaf\_size=36, n\_neighbors=35;; score=0.650 total time=0.0s  
 [CV 2/5; 1619/1980] START leaf\_size=36, n\_neighbors=35...  
 [CV 3/5; 1623/1980] END leaf\_size=36, n\_neighbors=39;; score=0.575 total time=0.0s  
 [CV 4/5; 1623/1980] START leaf\_size=36, n\_neighbors=39...  
 [CV 4/5; 1627/1980] END leaf\_size=36, n\_neighbors=43;; score=0.600 total time=0.0s  
 [CV 5/5; 1627/1980] START leaf\_size=36, n\_neighbors=43...  
 [CV 4/5; 1617/1980] END leaf\_size=36, n\_neighbors=33;; score=0.597 total time=0.0s  
 [CV 2/5; 1622/1980] END leaf\_size=36, n\_neighbors=38;; score=0.613 total time=0.0s  
 [CV 4/5; 1630/1980] START leaf\_size=36, n\_neighbors=46...  
  
 [CV 3/5; 1622/1980] START leaf\_size=36, n\_neighbors=38...  
 [CV 5/5; 1612/1980] END leaf\_size=36, n\_neighbors=28;; score=0.641 total time=0.0s  
 [CV 2/5; 1632/1980] START leaf\_size=36, n\_neighbors=48...  
 [CV 2/5; 1626/1980] END leaf\_size=36, n\_neighbors=42;; score=0.618 total time=0.0s  
 [CV 3/5; 1626/1980] START leaf\_size=36, n\_neighbors=42...  
 [CV 1/5; 1629/1980] END leaf\_size=36, n\_neighbors=45;; score=0.678 total time=0.0s  
 [CV 2/5; 1629/1980] START leaf\_size=36, n\_neighbors=45...  
 [CV 5/5; 1624/1980] END leaf\_size=36, n\_neighbors=40;; score=0.617 total time=0.0s  
 [CV 1/5; 1625/1980] START leaf\_size=36, n\_neighbors=41...  
 [CV 4/5; 1623/1980] END leaf\_size=36, n\_neighbors=39;; score=0.602 total time=0.0s  
 [CV 5/5; 1623/1980] START leaf\_size=36, n\_neighbors=39...  
 [CV 2/5; 1619/1980] END leaf\_size=36, n\_neighbors=35;; score=0.607 total time=0.0s  
 [CV 5/5; 1627/1980] END leaf\_size=36, n\_neighbors=43;; score=0.615 total time=0.0s  
 [CV 1/5; 1628/1980] START leaf\_size=36, n\_neighbors=44...  
 [CV 3/5; 1622/1980] END leaf\_size=36, n\_neighbors=38;; score=0.566 total time=0.0s  
 [CV 5/5; 1633/1980] START leaf\_size=36, n\_neighbors=49...  
 [CV 5/5; 1620/1980] END leaf\_size=36, n\_neighbors=36;; score=0.628 total time=0.1s  
 [CV 4/5; 1630/1980] END leaf\_size=36, n\_neighbors=46;; score=0.597 total time=0.0s  
 [CV 5/5; 1630/1980] START leaf\_size=36, n\_neighbors=46...

[CV 2/5; 1632/1980] END leaf\_size=36, n\_neighbors=48;; score=0.609 total time=0.0s  
 [CV 3/5; 1632/1980] START leaf\_size=36, n\_neighbors=48..  
 [CV 3/5; 1635/1980] START leaf\_size=36, n\_neighbors=51..  
 [CV 3/5; 1626/1980] END leaf\_size=36, n\_neighbors=42;; score=0.564 total time=0.0s  
 [CV 4/5; 1626/1980] START leaf\_size=36, n\_neighbors=42..  
 [CV 1/5; 1637/1980] START leaf\_size=36, n\_neighbors=53..  
 [CV 2/5; 1629/1980] END leaf\_size=36, n\_neighbors=45;; score=0.611 total time=0.0s  
 [CV 3/5; 1629/1980] START leaf\_size=36, n\_neighbors=45..  
 [CV 1/5; 1625/1980] END leaf\_size=36, n\_neighbors=41;; score=0.665 total time=0.0s  
 [CV 2/5; 1625/1980] START leaf\_size=36, n\_neighbors=41..  
 [CV 5/5; 1623/1980] END leaf\_size=36, n\_neighbors=39;; score=0.636 total time=0.0s  
 [CV 1/5; 1624/1980] START leaf\_size=36, n\_neighbors=40..  
 [CV 1/5; 1628/1980] END leaf\_size=36, n\_neighbors=44;; score=0.667 total time=0.0s  
 [CV 2/5; 1628/1980] START leaf\_size=36, n\_neighbors=44..  
 [CV 5/5; 1633/1980] END leaf\_size=36, n\_neighbors=49;; score=0.623 total time=0.0s  
 [CV 1/5; 1634/1980] START leaf\_size=36, n\_neighbors=50..  
 [CV 3/5; 1632/1980] END leaf\_size=36, n\_neighbors=48;; score=0.562 total time=0.0s  
 [CV 4/5; 1632/1980] START leaf\_size=36, n\_neighbors=48..  
 [CV 5/5; 1630/1980] END leaf\_size=36, n\_neighbors=46;; score=0.619 total time=0.0s  
 [CV 1/5; 1631/1980] START leaf\_size=36, n\_neighbors=47..  
 [CV 4/5; 1626/1980] END leaf\_size=36, n\_neighbors=42;; score=0.608 total time=0.0s  
 [CV 5/5; 1626/1980] START leaf\_size=36, n\_neighbors=42..  
 [CV 3/5; 1629/1980] END leaf\_size=36, n\_neighbors=45;; score=0.575 total time=0.0s  
 [CV 4/5; 1629/1980] START leaf\_size=36, n\_neighbors=45..  
 [CV 1/5; 1637/1980] END leaf\_size=36, n\_neighbors=53;; score=0.678 total time=0.0s  
 [CV 2/5; 1637/1980] START leaf\_size=36, n\_neighbors=53..  
 [CV 3/5; 1635/1980] END leaf\_size=36, n\_neighbors=51;; score=0.566 total time=0.0s  
 [CV 4/5; 1635/1980] START leaf\_size=36, n\_neighbors=51..  
 [CV 1/5; 1624/1980] END leaf\_size=36, n\_neighbors=40;; score=0.661 total time=0.0s  
 [CV 4/5; 1638/1980] START leaf\_size=36, n\_neighbors=54..  
 [CV 2/5; 1625/1980] END leaf\_size=36, n\_neighbors=41;; score=0.618 total time=0.0s  
 [CV 3/5; 1625/1980] START leaf\_size=36, n\_neighbors=41..  
 [CV 2/5; 1628/1980] END leaf\_size=36, n\_neighbors=44;; score=0.613 total time=

0.0s  
 [CV 3/5; 1628/1980] START leaf\_size=36, n\_neighbors=44...  
 [CV 4/5; 1632/1980] END leaf\_size=36, n\_neighbors=48;; score=0.589 total time=  
 0.0s  
 [CV 5/5; 1632/1980] START leaf\_size=36, n\_neighbors=48...  
 [CV 1/5; 1634/1980] END leaf\_size=36, n\_neighbors=50;; score=0.678 total time=  
 0.0s  
 [CV 2/5; 1634/1980] START leaf\_size=36, n\_neighbors=50...  
 [CV 1/5; 1631/1980] END leaf\_size=36, n\_neighbors=47;; score=0.676 total time=  
 0.0s  
 [CV 4/5; 1629/1980] END leaf\_size=36, n\_neighbors=45;; score=0.600 total time=  
 0.0s[CV 2/5; 1631/1980] START leaf\_size=36,  
 n\_neighbors=47...  
  
 [CV 5/5; 1629/1980] START leaf\_size=36, n\_neighbors=45...  
 [CV 5/5; 1626/1980] END leaf\_size=36, n\_neighbors=42;; score=0.621 total time=  
 0.0s  
 [CV 1/5; 1627/1980] START leaf\_size=36, n\_neighbors=43...  
 [CV 2/5; 1637/1980] END leaf\_size=36, n\_neighbors=53;; score=0.611 total time=  
 0.0s  
 [CV 3/5; 1637/1980] START leaf\_size=36, n\_neighbors=53...  
 [CV 4/5; 1638/1980] END leaf\_size=36, n\_neighbors=54;; score=0.595 total time=  
 0.0s[CV 3/5; 1625/1980] END leaf\_size=36, n\_neighbors=41;; score=0.568 total  
 time= 0.0s  
 [CV 4/5; 1625/1980] START leaf\_size=36, n\_neighbors=41...  
 [CV 4/5; 1635/1980] END leaf\_size=36, n\_neighbors=51;; score=0.602 total time=  
 0.0s  
 [CV 5/5; 1635/1980] START leaf\_size=36, n\_neighbors=51...  
  
 [CV 5/5; 1638/1980] START leaf\_size=36, n\_neighbors=54...  
 [CV 3/5; 1628/1980] END leaf\_size=36, n\_neighbors=44;; score=0.570 total time=  
 0.0s  
 [CV 4/5; 1628/1980] START leaf\_size=36, n\_neighbors=44...  
 [CV 5/5; 1632/1980] END leaf\_size=36, n\_neighbors=48;; score=0.630 total time=  
 0.0s  
 [CV 1/5; 1633/1980] START leaf\_size=36, n\_neighbors=49...  
 [CV 2/5; 1634/1980] END leaf\_size=36, n\_neighbors=50;; score=0.603 total time=  
 0.0s  
 [CV 3/5; 1634/1980] START leaf\_size=36, n\_neighbors=50...  
 [CV 5/5; 1629/1980] END leaf\_size=36, n\_neighbors=45;; score=0.619 total time=  
 0.0s  
 [CV 1/5; 1630/1980] START leaf\_size=36, n\_neighbors=46...  
 [CV 2/5; 1631/1980] END leaf\_size=36, n\_neighbors=47;; score=0.611 total time=  
 0.0s  
 [CV 3/5; 1631/1980] START leaf\_size=36, n\_neighbors=47...  
 [CV 1/5; 1627/1980] END leaf\_size=36, n\_neighbors=43;; score=0.674 total time=  
 0.0s  
 [CV 2/5; 1627/1980] START leaf\_size=36, n\_neighbors=43...

[CV 3/5; 1637/1980] END leaf\_size=36, n\_neighbors=53;; score=0.572 total time=0.0s  
 [CV 4/5; 1637/1980] START leaf\_size=36, n\_neighbors=53...  
 [CV 4/5; 1625/1980] END leaf\_size=36, n\_neighbors=41;; score=0.610 total time=0.0s  
 [CV 5/5; 1638/1980] END leaf\_size=36, n\_neighbors=54;; score=0.608 total time=0.0s  
 [CV 1/5; 1639/1980] START leaf\_size=36, n\_neighbors=55...  
 [CV 2/5; 1640/1980] START leaf\_size=36, n\_neighbors=56...  
 [CV 4/5; 1628/1980] END leaf\_size=36, n\_neighbors=44;; score=0.597 total time=0.0s  
 [CV 5/5; 1628/1980] START leaf\_size=36, n\_neighbors=44...  
 [CV 1/5; 1633/1980] END leaf\_size=36, n\_neighbors=49;; score=0.676 total time=0.0s  
 [CV 5/5; 1635/1980] END leaf\_size=36, n\_neighbors=51;; score=0.621 total time=0.0s  
 [CV 1/5; 1636/1980] START leaf\_size=36, n\_neighbors=52...  
 [CV 2/5; 1633/1980] START leaf\_size=36, n\_neighbors=49...  
 [CV 3/5; 1634/1980] END leaf\_size=36, n\_neighbors=50;; score=0.557 total time=0.0s  
 [CV 4/5; 1634/1980] START leaf\_size=36, n\_neighbors=50...  
 [CV 1/5; 1630/1980] END leaf\_size=36, n\_neighbors=46;; score=0.672 total time=0.0s  
 [CV 2/5; 1630/1980] START leaf\_size=36, n\_neighbors=46...  
 [CV 3/5; 1631/1980] END leaf\_size=36, n\_neighbors=47;; score=0.572 total time=0.0s  
 [CV 4/5; 1631/1980] START leaf\_size=36, n\_neighbors=47...  
 [CV 2/5; 1627/1980] END leaf\_size=36, n\_neighbors=43;; score=0.616 total time=0.0s  
 [CV 4/5; 1637/1980] END leaf\_size=36, n\_neighbors=53;; score=0.600 total time=0.0s  
 [CV 5/5; 1637/1980] START leaf\_size=36, n\_neighbors=53...  
 [CV 5/5; 1641/1980] START leaf\_size=36, n\_neighbors=57...  
 [CV 1/5; 1639/1980] END leaf\_size=36, n\_neighbors=55;; score=0.667 total time=0.0s  
 [CV 2/5; 1639/1980] START leaf\_size=36, n\_neighbors=55...  
 [CV 5/5; 1628/1980] END leaf\_size=36, n\_neighbors=44;; score=0.615 total time=0.0s  
 [CV 3/5; 1643/1980] START leaf\_size=36, n\_neighbors=59...  
 [CV 2/5; 1640/1980] END leaf\_size=36, n\_neighbors=56;; score=0.609 total time=0.0s  
 [CV 3/5; 1640/1980] START leaf\_size=36, n\_neighbors=56...  
 [CV 4/5; 1634/1980] END leaf\_size=36, n\_neighbors=50;; score=0.597 total time=0.0s  
 [CV 5/5; 1634/1980] START leaf\_size=36,  
 n\_neighbors=50...[CV 2/5; 1633/1980] END leaf\_size=36,  
 n\_neighbors=49;; score=0.622 total time= 0.0s

[CV 3/5; 1633/1980] START leaf\_size=36, n\_neighbors=49...  
 [CV 1/5; 1636/1980] END leaf\_size=36, n\_neighbors=52;; score=0.676 total time=0.0s  
 [CV 2/5; 1636/1980] START leaf\_size=36, n\_neighbors=52...  
 [CV 2/5; 1630/1980] END leaf\_size=36, n\_neighbors=46;; score=0.616 total time=0.0s  
 [CV 3/5; 1630/1980] START leaf\_size=36, n\_neighbors=46...  
 [CV 4/5; 1631/1980] END leaf\_size=36, n\_neighbors=47;; score=0.589 total time=0.0s  
 [CV 5/5; 1631/1980] START leaf\_size=36, n\_neighbors=47...  
 [CV 5/5; 1637/1980] END leaf\_size=36, n\_neighbors=53;; score=0.613 total time=0.0s  
 [CV 1/5; 1638/1980] START leaf\_size=36, n\_neighbors=54...  
 [CV 5/5; 1641/1980] END leaf\_size=36, n\_neighbors=57;; score=0.610 total time=0.0s  
 [CV 1/5; 1642/1980] START leaf\_size=36, n\_neighbors=58...  
 [CV 2/5; 1639/1980] END leaf\_size=36, n\_neighbors=55;; score=0.618 total time=0.0s  
 [CV 3/5; 1639/1980] START leaf\_size=36, n\_neighbors=55...  
 [CV 3/5; 1643/1980] END leaf\_size=36, n\_neighbors=59;; score=0.553 total time=0.0s  
 [CV 4/5; 1643/1980] START leaf\_size=36, n\_neighbors=59...  
 [CV 3/5; 1633/1980] END leaf\_size=36, n\_neighbors=49;; score=0.568 total time=0.0s  
 [CV 4/5; 1633/1980] START leaf\_size=36, n\_neighbors=49...  
 [CV 5/5; 1634/1980] END leaf\_size=36, n\_neighbors=50;; score=0.619 total time=0.0s  
 [CV 1/5; 1635/1980] START leaf\_size=36, n\_neighbors=51...  
 [CV 3/5; 1640/1980] END leaf\_size=36, n\_neighbors=56;; score=0.551 total time=0.0s  
 [CV 4/5; 1640/1980] START leaf\_size=36, n\_neighbors=56...  
 [CV 3/5; 1630/1980] END leaf\_size=36, n\_neighbors=46;; score=0.572 total time=0.0s  
 [CV 2/5; 1636/1980] END leaf\_size=36, n\_neighbors=52;; score=0.611 total time=0.0s  
 [CV 3/5; 1636/1980] START leaf\_size=36, n\_neighbors=52...  
 [CV 5/5; 1631/1980] END leaf\_size=36, n\_neighbors=47;; score=0.623 total time=0.0s  
 [CV 1/5; 1632/1980] START leaf\_size=36, n\_neighbors=48...  
 [CV 1/5; 1638/1980] END leaf\_size=36, n\_neighbors=54;; score=0.667 total time=0.0s  
 [CV 2/5; 1638/1980] START leaf\_size=36, n\_neighbors=54...  
 [CV 1/5; 1642/1980] END leaf\_size=36, n\_neighbors=58;; score=0.665 total time=0.0s  
 [CV 2/5; 1642/1980] START leaf\_size=36, n\_neighbors=58...  
 [CV 1/5; 1645/1980] START leaf\_size=36, n\_neighbors=61...  
 [CV 3/5; 1639/1980] END leaf\_size=36, n\_neighbors=55;; score=0.564 total time=0.0s



[CV 4/5; 1639/1980] START leaf\_size=36, n\_neighbors=55...  
 [CV 4/5; 1633/1980] END leaf\_size=36, n\_neighbors=49;; score=0.593 total time=0.0s  
 [CV 4/5; 1643/1980] END leaf\_size=36, n\_neighbors=59;; score=0.604 total time=0.0s  
 [CV 5/5; 1643/1980] START leaf\_size=36, n\_neighbors=59...  
 [CV 1/5; 1635/1980] END leaf\_size=36, n\_neighbors=51;; score=0.680 total time=0.0s  
 [CV 2/5; 1635/1980] START leaf\_size=36, n\_neighbors=51...  
 [CV 4/5; 1646/1980] START leaf\_size=36, n\_neighbors=62...  
 [CV 4/5; 1640/1980] END leaf\_size=36, n\_neighbors=56;; score=0.591 total time=0.0s  
 [CV 5/5; 1640/1980] START leaf\_size=36, n\_neighbors=56...  
 [CV 1/5; 1632/1980] END leaf\_size=36, n\_neighbors=48;; score=0.672 total time=0.0s  
 [CV 2/5; 1648/1980] START leaf\_size=36, n\_neighbors=64...  
 [CV 3/5; 1636/1980] END leaf\_size=36, n\_neighbors=52;; score=0.566 total time=0.0s  
 [CV 4/5; 1636/1980] START leaf\_size=36, n\_neighbors=52...  
 [CV 1/5; 1645/1980] END leaf\_size=36, n\_neighbors=61;; score=0.665 total time=0.0s  
 [CV 2/5; 1645/1980] START leaf\_size=36, n\_neighbors=61...  
 [CV 2/5; 1642/1980] END leaf\_size=36, n\_neighbors=58;; score=0.609 total time=0.0s  
 [CV 3/5; 1642/1980] START leaf\_size=36, n\_neighbors=58...  
 [CV 2/5; 1638/1980] END leaf\_size=36, n\_neighbors=54;; score=0.618 total time=0.0s  
 [CV 3/5; 1638/1980] START leaf\_size=36, n\_neighbors=54...  
 [CV 2/5; 1635/1980] END leaf\_size=36, n\_neighbors=51;; score=0.618 total time=0.0s  
 [CV 4/5; 1639/1980] END leaf\_size=36, n\_neighbors=55;; score=0.593 total time=0.0s  
 [CV 5/5; 1639/1980] START leaf\_size=36, n\_neighbors=55...  
 [CV 5/5; 1643/1980] END leaf\_size=36, n\_neighbors=59;; score=0.610 total time=0.0s  
 [CV 1/5; 1644/1980] START leaf\_size=36, n\_neighbors=60...  
 [CV 5/5; 1649/1980] START leaf\_size=36, n\_neighbors=65...  
 [CV 4/5; 1646/1980] END leaf\_size=36, n\_neighbors=62;; score=0.600 total time=0.0s  
 [CV 5/5; 1646/1980] START leaf\_size=36, n\_neighbors=62...  
 [CV 5/5; 1640/1980] END leaf\_size=36, n\_neighbors=56;; score=0.613 total time=0.0s  
 [CV 1/5; 1641/1980] START leaf\_size=36, n\_neighbors=57...  
 [CV 2/5; 1648/1980] END leaf\_size=36, n\_neighbors=64;; score=0.609 total time=0.0s  
 [CV 3/5; 1648/1980] START leaf\_size=36, n\_neighbors=64...  
 [CV 2/5; 1645/1980] END leaf\_size=36, n\_neighbors=61;; score=0.603 total time=0.0s

[CV 3/5; 1645/1980] START leaf\_size=36, n\_neighbors=61...  
 [CV 4/5; 1636/1980] END leaf\_size=36, n\_neighbors=52;; score=0.597 total time=0.0s  
 [CV 3/5; 1642/1980] END leaf\_size=36, n\_neighbors=58;; score=0.549 total time=0.0s  
 [CV 4/5; 1642/1980] START leaf\_size=36,  
 n\_neighbors=58...[CV 5/5; 1636/1980] START leaf\_size=36,  
 n\_neighbors=52...  
  
 [CV 3/5; 1638/1980] END leaf\_size=36, n\_neighbors=54;; score=0.562 total time=0.0s  
 [CV 3/5; 1651/1980] START leaf\_size=36, n\_neighbors=67...  
 [CV 5/5; 1649/1980] END leaf\_size=36, n\_neighbors=65;; score=0.621 total time=0.0s  
 [CV 1/5; 1650/1980] START leaf\_size=36, n\_neighbors=66...  
 [CV 1/5; 1644/1980] END leaf\_size=36, n\_neighbors=60;; score=0.667 total time=0.0s  
 [CV 2/5; 1644/1980] START leaf\_size=36, n\_neighbors=60...  
 [CV 5/5; 1639/1980] END leaf\_size=36, n\_neighbors=55;; score=0.608 total time=0.0s  
 [CV 1/5; 1640/1980] START leaf\_size=36, n\_neighbors=56...  
 [CV 5/5; 1646/1980] END leaf\_size=36, n\_neighbors=62;; score=0.610 total time=0.0s  
 [CV 1/5; 1647/1980] START leaf\_size=36, n\_neighbors=63...  
 [CV 1/5; 1641/1980] END leaf\_size=36, n\_neighbors=57;; score=0.665 total time=0.0s  
 [CV 2/5; 1641/1980] START leaf\_size=36, n\_neighbors=57...  
 [CV 3/5; 1648/1980] END leaf\_size=36, n\_neighbors=64;; score=0.562 total time=0.0s  
 [CV 4/5; 1648/1980] START leaf\_size=36, n\_neighbors=64...  
 [CV 3/5; 1645/1980] END leaf\_size=36, n\_neighbors=61;; score=0.557 total time=0.0s  
 [CV 4/5; 1645/1980] START leaf\_size=36, n\_neighbors=61...  
 [CV 4/5; 1642/1980] END leaf\_size=36, n\_neighbors=58;; score=0.595 total time=0.0s  
 [CV 5/5; 1642/1980] START leaf\_size=36, n\_neighbors=58...  
 [CV 5/5; 1636/1980] END leaf\_size=36, n\_neighbors=52;; score=0.619 total time=0.0s  
 [CV 1/5; 1653/1980] START leaf\_size=36, n\_neighbors=69...  
 [CV 3/5; 1651/1980] END leaf\_size=36, n\_neighbors=67;; score=0.564 total time=0.0s  
 [CV 4/5; 1651/1980] START leaf\_size=36, n\_neighbors=67...  
 [CV 1/5; 1650/1980] END leaf\_size=36, n\_neighbors=66;; score=0.663 total time=0.0s  
 [CV 2/5; 1650/1980] START leaf\_size=36, n\_neighbors=66...  
 [CV 2/5; 1644/1980] END leaf\_size=36, n\_neighbors=60;; score=0.605 total time=0.0s  
 [CV 3/5; 1644/1980] START leaf\_size=36, n\_neighbors=60...

[CV 1/5; 1640/1980] END leaf\_size=36, n\_neighbors=56;; score=0.670 total time=0.0s  
 [CV 1/5; 1647/1980] END leaf\_size=36, n\_neighbors=63;; score=0.665 total time=0.0s  
 [CV 2/5; 1647/1980] START leaf\_size=36, n\_neighbors=63...  
 [CV 4/5; 1654/1980] START leaf\_size=36, n\_neighbors=70...  
 [CV 2/5; 1641/1980] END leaf\_size=36, n\_neighbors=57;; score=0.616 total time=0.0s  
 [CV 3/5; 1641/1980] START leaf\_size=36, n\_neighbors=57...  
 [CV 4/5; 1648/1980] END leaf\_size=36, n\_neighbors=64;; score=0.593 total time=0.0s  
 [CV 5/5; 1648/1980] START leaf\_size=36, n\_neighbors=64...  
 [CV 4/5; 1645/1980] END leaf\_size=36, n\_neighbors=61;; score=0.604 total time=0.0s  
 [CV 5/5; 1645/1980] START leaf\_size=36, n\_neighbors=61...  
 [CV 5/5; 1642/1980] END leaf\_size=36, n\_neighbors=58;; score=0.610 total time=0.0s  
 [CV 1/5; 1643/1980] START leaf\_size=36, n\_neighbors=59...  
 [CV 4/5; 1651/1980] END leaf\_size=36, n\_neighbors=67;; score=0.587 total time=0.0s  
 [CV 5/5; 1651/1980] START leaf\_size=36, n\_neighbors=67...  
 [CV 2/5; 1650/1980] END leaf\_size=36, n\_neighbors=66;; score=0.609 total time=0.0s  
 [CV 3/5; 1650/1980] START leaf\_size=36, n\_neighbors=66...  
 [CV 3/5; 1644/1980] END leaf\_size=36, n\_neighbors=60;; score=0.553 total time=0.0s  
 [CV 4/5; 1644/1980] START leaf\_size=36, n\_neighbors=60...  
 [CV 1/5; 1653/1980] END leaf\_size=36, n\_neighbors=69;; score=0.663 total time=0.0s  
 [CV 2/5; 1653/1980] START leaf\_size=36, n\_neighbors=69...  
 [CV 2/5; 1647/1980] END leaf\_size=36, n\_neighbors=63;; score=0.609 total time=0.0s  
 [CV 3/5; 1647/1980] START leaf\_size=36, n\_neighbors=63...  
 [CV 3/5; 1641/1980] END leaf\_size=36, n\_neighbors=57;; score=0.559 total time=0.0s  
 [CV 4/5; 1641/1980] START leaf\_size=36, n\_neighbors=57...  
 [CV 5/5; 1648/1980] END leaf\_size=36, n\_neighbors=64;; score=0.613 total time=0.0s  
 [CV 1/5; 1649/1980] START leaf\_size=36, n\_neighbors=65...  
 [CV 5/5; 1645/1980] END leaf\_size=36, n\_neighbors=61;; score=0.606 total time=0.0s  
 [CV 1/5; 1646/1980] START leaf\_size=36, n\_neighbors=62...  
 [CV 4/5; 1654/1980] END leaf\_size=36, n\_neighbors=70;; score=0.589 total time=0.0s  
 [CV 5/5; 1654/1980] START leaf\_size=36, n\_neighbors=70...  
 [CV 1/5; 1643/1980] END leaf\_size=36, n\_neighbors=59;; score=0.670 total time=0.0s  
 [CV 2/5; 1643/1980] START leaf\_size=36, n\_neighbors=59...

[CV 3/5; 1650/1980] END leaf\_size=36, n\_neighbors=66;; score=0.566 total time=0.0s  
 [CV 4/5; 1650/1980] START leaf\_size=36, n\_neighbors=66...  
 [CV 5/5; 1651/1980] END leaf\_size=36, n\_neighbors=67;; score=0.613 total time=0.0s  
 [CV 1/5; 1652/1980] START leaf\_size=36, n\_neighbors=68...  
 [CV 4/5; 1644/1980] END leaf\_size=36, n\_neighbors=60;; score=0.602 total time=0.0s  
 [CV 5/5; 1644/1980] START leaf\_size=36, n\_neighbors=60...  
 [CV 3/5; 1647/1980] END leaf\_size=36, n\_neighbors=63;; score=0.562 total time=0.0s  
 [CV 4/5; 1647/1980] START leaf\_size=36, n\_neighbors=63...  
 [CV 4/5; 1641/1980] END leaf\_size=36, n\_neighbors=57;; score=0.597 total time=0.0s  
 [CV 1/5; 1646/1980] END leaf\_size=36, n\_neighbors=62;; score=0.663 total time=0.0s  
 [CV 2/5; 1646/1980] START leaf\_size=36, n\_neighbors=62...  
 [CV 1/5; 1649/1980] END leaf\_size=36, n\_neighbors=65;; score=0.663 total time=0.0s  
 [CV 2/5; 1649/1980] START leaf\_size=36, n\_neighbors=65...  
 [CV 2/5; 1656/1980] START leaf\_size=36, n\_neighbors=72...  
 [CV 5/5; 1654/1980] END leaf\_size=36, n\_neighbors=70;; score=0.606 total time=0.0s  
 [CV 1/5; 1655/1980] START leaf\_size=36, n\_neighbors=71...  
 [CV 2/5; 1653/1980] END leaf\_size=36, n\_neighbors=69;; score=0.609 total time=0.0s  
 [CV 3/5; 1653/1980] START leaf\_size=36, n\_neighbors=69...  
 [CV 2/5; 1643/1980] END leaf\_size=36, n\_neighbors=59;; score=0.609 total time=0.0s  
 [CV 5/5; 1657/1980] START leaf\_size=36, n\_neighbors=73...  
 [CV 4/5; 1650/1980] END leaf\_size=36, n\_neighbors=66;; score=0.574 total time=0.0s  
 [CV 5/5; 1650/1980] START leaf\_size=36, n\_neighbors=66...  
 [CV 5/5; 1644/1980] END leaf\_size=36, n\_neighbors=60;; score=0.604 total time=0.0s  
 [CV 3/5; 1659/1980] START leaf\_size=36, n\_neighbors=75...  
 [CV 1/5; 1652/1980] END leaf\_size=36, n\_neighbors=68;; score=0.667 total time=0.0s  
 [CV 2/5; 1652/1980] START leaf\_size=36, n\_neighbors=68...  
 [CV 2/5; 1646/1980] END leaf\_size=36, n\_neighbors=62;; score=0.603 total time=0.0s  
 [CV 3/5; 1646/1980] START leaf\_size=36, n\_neighbors=62...  
 [CV 2/5; 1649/1980] END leaf\_size=36, n\_neighbors=65;; score=0.616 total time=0.0s  
 [CV 4/5; 1647/1980] END leaf\_size=36, n\_neighbors=63;; score=0.604 total time=0.0s  
 [CV 3/5; 1649/1980] START leaf\_size=36, n\_neighbors=65...

[CV 5/5; 1647/1980] START leaf\_size=36, n\_neighbors=63...  
 [CV 2/5; 1656/1980] END leaf\_size=36, n\_neighbors=72;; score=0.607 total time=0.0s  
 [CV 3/5; 1656/1980] START leaf\_size=36, n\_neighbors=72...  
 [CV 1/5; 1655/1980] END leaf\_size=36, n\_neighbors=71;; score=0.670 total time=0.0s  
 [CV 2/5; 1655/1980] START leaf\_size=36, n\_neighbors=71...  
 [CV 5/5; 1657/1980] END leaf\_size=36, n\_neighbors=73;; score=0.628 total time=0.0s  
 [CV 1/5; 1658/1980] START leaf\_size=36, n\_neighbors=74...  
 [CV 5/5; 1650/1980] END leaf\_size=36, n\_neighbors=66;; score=0.613 total time=0.0s  
 [CV 1/5; 1651/1980] START leaf\_size=36, n\_neighbors=67...  
 [CV 3/5; 1653/1980] END leaf\_size=36, n\_neighbors=69;; score=0.568 total time=0.0s  
 [CV 4/5; 1653/1980] START leaf\_size=36, n\_neighbors=69...  
 [CV 3/5; 1659/1980] END leaf\_size=36, n\_neighbors=75;; score=0.555 total time=0.0s  
 [CV 4/5; 1659/1980] START leaf\_size=36, n\_neighbors=75...  
 [CV 2/5; 1652/1980] END leaf\_size=36, n\_neighbors=68;; score=0.609 total time=0.0s  
 [CV 3/5; 1652/1980] START leaf\_size=36, n\_neighbors=68...  
 [CV 5/5; 1647/1980] END leaf\_size=36, n\_neighbors=63;; score=0.615 total time=0.0s  
 [CV 1/5; 1648/1980] START leaf\_size=36, n\_neighbors=64...  
 [CV 3/5; 1646/1980] END leaf\_size=36, n\_neighbors=62;; score=0.555 total time=0.0s  
 [CV 3/5; 1649/1980] END leaf\_size=36, n\_neighbors=65;; score=0.566 total time=0.0s  
 [CV 4/5; 1649/1980] START leaf\_size=36, n\_neighbors=65...  
 [CV 3/5; 1656/1980] END leaf\_size=36, n\_neighbors=72;; score=0.562 total time=0.0s  
 [CV 4/5; 1656/1980] START leaf\_size=36, n\_neighbors=72...  
 [CV 1/5; 1661/1980] START leaf\_size=36, n\_neighbors=77...  
 [CV 1/5; 1658/1980] END leaf\_size=36, n\_neighbors=74;; score=0.661 total time=0.0s  
 [CV 2/5; 1658/1980] START leaf\_size=36, n\_neighbors=74...  
 [CV 2/5; 1655/1980] END leaf\_size=36, n\_neighbors=71;; score=0.616 total time=0.0s  
 [CV 3/5; 1655/1980] START leaf\_size=36, n\_neighbors=71...  
 [CV 1/5; 1651/1980] END leaf\_size=36, n\_neighbors=67;; score=0.663 total time=0.0s  
 [CV 2/5; 1651/1980] START leaf\_size=36, n\_neighbors=67...  
 [CV 4/5; 1659/1980] END leaf\_size=36, n\_neighbors=75;; score=0.591 total time=0.0s  
 [CV 5/5; 1659/1980] START leaf\_size=36, n\_neighbors=75...  
 [CV 3/5; 1652/1980] END leaf\_size=36, n\_neighbors=68;; score=0.566 total time=0.0s

[CV 4/5; 1652/1980] START leaf\_size=36, n\_neighbors=68...  
 [CV 4/5; 1653/1980] END leaf\_size=36, n\_neighbors=69;; score=0.582 total time=0.0s  
 [CV 5/5; 1653/1980] START leaf\_size=36, n\_neighbors=69...  
 [CV 4/5; 1649/1980] END leaf\_size=36, n\_neighbors=65;; score=0.591 total time=0.0s  
 [CV 1/5; 1648/1980] END leaf\_size=36, n\_neighbors=64;; score=0.663 total time=0.0s  
 [CV 4/5; 1662/1980] START leaf\_size=36, n\_neighbors=78...  
 [CV 2/5; 1664/1980] START leaf\_size=36, n\_neighbors=80...  
 [CV 4/5; 1656/1980] END leaf\_size=36, n\_neighbors=72;; score=0.593 total time=0.0s  
 [CV 5/5; 1656/1980] START leaf\_size=36, n\_neighbors=72...  
 [CV 1/5; 1661/1980] END leaf\_size=36, n\_neighbors=77;; score=0.667 total time=0.0s  
 [CV 2/5; 1661/1980] START leaf\_size=36, n\_neighbors=77...  
 [CV 2/5; 1658/1980] END leaf\_size=36, n\_neighbors=74;; score=0.607 total time=0.0s  
 [CV 3/5; 1658/1980] START leaf\_size=36, n\_neighbors=74...  
 [CV 3/5; 1655/1980] END leaf\_size=36, n\_neighbors=71;; score=0.562 total time=0.0s  
 [CV 4/5; 1655/1980] START leaf\_size=36, n\_neighbors=71...  
 [CV 2/5; 1651/1980] END leaf\_size=36, n\_neighbors=67;; score=0.611 total time=0.0s  
 [CV 5/5; 1659/1980] END leaf\_size=36, n\_neighbors=75;; score=0.632 total time=0.0s  
 [CV 1/5; 1660/1980] START leaf\_size=36, n\_neighbors=76...  
 [CV 5/5; 1665/1980] START leaf\_size=36, n\_neighbors=81...  
 [CV 5/5; 1653/1980] END leaf\_size=36, n\_neighbors=69;; score=0.621 total time=0.0s  
 [CV 1/5; 1654/1980] START leaf\_size=36, n\_neighbors=70...  
 [CV 5/5; 1656/1980] END leaf\_size=36, n\_neighbors=72;; score=0.613 total time=0.0s  
 [CV 1/5; 1657/1980] START leaf\_size=36, n\_neighbors=73...  
 [CV 3/5; 1658/1980] END leaf\_size=36, n\_neighbors=74;; score=0.557 total time=0.0s  
 [CV 4/5; 1658/1980] START leaf\_size=36, n\_neighbors=74...  
 [CV 4/5; 1655/1980] END leaf\_size=36, n\_neighbors=71;; score=0.587 total time=0.0s  
 [CV 5/5; 1655/1980] START leaf\_size=36, n\_neighbors=71...  
 [CV 2/5; 1664/1980] END leaf\_size=36, n\_neighbors=80;; score=0.594 total time=0.0s  
 [CV 3/5; 1664/1980] START leaf\_size=36, n\_neighbors=80...  
 [CV 5/5; 1665/1980] END leaf\_size=36, n\_neighbors=81;; score=0.626 total time=0.0s  
 [CV 1/5; 1666/1980] START leaf\_size=36, n\_neighbors=82...  
 [CV 1/5; 1660/1980] END leaf\_size=36, n\_neighbors=76;; score=0.667 total time=0.0s

[CV 2/5; 1660/1980] START leaf\_size=36, n\_neighbors=76...  
 [CV 4/5; 1662/1980] END leaf\_size=36, n\_neighbors=78;; score=0.571 total time=0.1s  
 [CV 4/5; 1652/1980] END leaf\_size=36, n\_neighbors=68;; score=0.576 total time= 0.1s  
 [CV 5/5; 1652/1980] START leaf\_size=36, n\_neighbors=68...  
 [CV 4/5; 1658/1980] END leaf\_size=36, n\_neighbors=74;; score=0.591 total time=0.0s  
 [CV 5/5; 1658/1980] START leaf\_size=36, n\_neighbors=74...  
 [CV 1/5; 1657/1980] END leaf\_size=36, n\_neighbors=73;; score=0.663 total time=0.0s  
 [CV 2/5; 1657/1980] START leaf\_size=36, n\_neighbors=73...  
  
 [CV 5/5; 1662/1980] START leaf\_size=36, n\_neighbors=78...  
 [CV 5/5; 1655/1980] END leaf\_size=36, n\_neighbors=71;; score=0.613 total time=0.0s  
 [CV 1/5; 1656/1980] START leaf\_size=36, n\_neighbors=72...  
 [CV 1/5; 1654/1980] END leaf\_size=36, n\_neighbors=70;; score=0.663 total time=0.0s  
 [CV 2/5; 1654/1980] START leaf\_size=36, n\_neighbors=70...  
 [CV 1/5; 1666/1980] END leaf\_size=36, n\_neighbors=82;; score=0.659 total time=0.0s  
 [CV 2/5; 1666/1980] START leaf\_size=36, n\_neighbors=82...  
 [CV 2/5; 1660/1980] END leaf\_size=36, n\_neighbors=76;; score=0.603 total time=0.0s  
 [CV 3/5; 1660/1980] START leaf\_size=36, n\_neighbors=76...  
 [CV 3/5; 1664/1980] END leaf\_size=36, n\_neighbors=80;; score=0.564 total time=0.0s  
 [CV 4/5; 1664/1980] START leaf\_size=36, n\_neighbors=80...  
 [CV 2/5; 1661/1980] END leaf\_size=36, n\_neighbors=77;; score=0.605 total time=0.1s  
 [CV 3/5; 1661/1980] START leaf\_size=36, n\_neighbors=77...  
 [CV 2/5; 1657/1980] END leaf\_size=36, n\_neighbors=73;; score=0.605 total time=0.0s  
 [CV 3/5; 1657/1980] START leaf\_size=36, n\_neighbors=73...  
 [CV 5/5; 1658/1980] END leaf\_size=36, n\_neighbors=74;; score=0.623 total time=0.0s  
 [CV 1/5; 1659/1980] START leaf\_size=36, n\_neighbors=75...  
 [CV 1/5; 1656/1980] END leaf\_size=36, n\_neighbors=72;; score=0.663 total time=0.0s  
 [CV 3/5; 1667/1980] START leaf\_size=36, n\_neighbors=83...  
 [CV 5/5; 1662/1980] END leaf\_size=36, n\_neighbors=78;; score=0.628 total time=0.0s  
 [CV 1/5; 1663/1980] START leaf\_size=36, n\_neighbors=79...  
 [CV 5/5; 1652/1980] END leaf\_size=36, n\_neighbors=68;; score=0.615 total time=0.0s  
 [CV 2/5; 1666/1980] END leaf\_size=36, n\_neighbors=82;; score=0.600 total time=0.0s  
 [CV 3/5; 1666/1980] START leaf\_size=36, n\_neighbors=82...

[CV 3/5; 1660/1980] END leaf\_size=36, n\_neighbors=76;; score=0.557 total time=0.0s  
 [CV 4/5; 1660/1980] START leaf\_size=36, n\_neighbors=76..  
 [CV 1/5; 1669/1980] START leaf\_size=36, n\_neighbors=85..  
 [CV 2/5; 1654/1980] END leaf\_size=36, n\_neighbors=70;; score=0.607 total time=0.0s  
 [CV 3/5; 1654/1980] START leaf\_size=36, n\_neighbors=70..  
 [CV 4/5; 1664/1980] END leaf\_size=36, n\_neighbors=80;; score=0.584 total time=0.0s  
 [CV 5/5; 1664/1980] START leaf\_size=36, n\_neighbors=80..  
 [CV 3/5; 1661/1980] END leaf\_size=36, n\_neighbors=77;; score=0.562 total time=0.0s  
 [CV 4/5; 1661/1980] START leaf\_size=36, n\_neighbors=77..  
 [CV 1/5; 1659/1980] END leaf\_size=36, n\_neighbors=75;; score=0.667 total time=0.0s  
 [CV 2/5; 1659/1980] START leaf\_size=36, n\_neighbors=75..  
 [CV 3/5; 1667/1980] END leaf\_size=36, n\_neighbors=83;; score=0.564 total time=0.0s  
 [CV 4/5; 1667/1980] START leaf\_size=36, n\_neighbors=83..  
 [CV 3/5; 1666/1980] END leaf\_size=36, n\_neighbors=82;; score=0.566 total time=0.0s  
 [CV 4/5; 1666/1980] START leaf\_size=36, n\_neighbors=82..  
 [CV 3/5; 1657/1980] END leaf\_size=36, n\_neighbors=73;; score=0.566 total time=0.0s  
 [CV 4/5; 1657/1980] START leaf\_size=36, n\_neighbors=73..  
 [CV 4/5; 1660/1980] END leaf\_size=36, n\_neighbors=76;; score=0.578 total time=0.0s  
 [CV 5/5; 1660/1980] START leaf\_size=36, n\_neighbors=76..  
 [CV 1/5; 1663/1980] END leaf\_size=36, n\_neighbors=79;; score=0.659 total time=0.1s  
 [CV 2/5; 1663/1980] START leaf\_size=36, n\_neighbors=79..  
 [CV 4/5; 1661/1980] END leaf\_size=36, n\_neighbors=77;; score=0.580 total time=0.0s  
 [CV 5/5; 1661/1980] START leaf\_size=36, n\_neighbors=77..  
 [CV 2/5; 1659/1980] END leaf\_size=36, n\_neighbors=75;; score=0.603 total time=0.0s  
 [CV 4/5; 1670/1980] START leaf\_size=36, n\_neighbors=86..  
 [CV 5/5; 1664/1980] END leaf\_size=36, n\_neighbors=80;; score=0.628 total time=0.0s  
 [CV 1/5; 1665/1980] START leaf\_size=36, n\_neighbors=81..  
 [CV 4/5; 1667/1980] END leaf\_size=36, n\_neighbors=83;; score=0.584 total time=0.0s  
 [CV 5/5; 1667/1980] START leaf\_size=36, n\_neighbors=83..  
 [CV 4/5; 1666/1980] END leaf\_size=36, n\_neighbors=82;; score=0.587 total time=0.0s  
 [CV 5/5; 1666/1980] START leaf\_size=36, n\_neighbors=82..  
 [CV 4/5; 1657/1980] END leaf\_size=36, n\_neighbors=73;; score=0.591 total time=0.0s



[CV 2/5; 1672/1980] START leaf\_size=36, n\_neighbors=88...  
 [CV 5/5; 1660/1980] END leaf\_size=36, n\_neighbors=76;; score=0.621 total time=0.0s  
 [CV 5/5; 1673/1980] START leaf\_size=36, n\_neighbors=89...  
 [CV 3/5; 1654/1980] END leaf\_size=36, n\_neighbors=70;; score=0.559 total time=0.1s  
 [CV 5/5; 1661/1980] END leaf\_size=36, n\_neighbors=77;; score=0.617 total time=0.0s  
 [CV 1/5; 1662/1980] START leaf\_size=36, n\_neighbors=78...  
 [CV 2/5; 1663/1980] END leaf\_size=36, n\_neighbors=79;; score=0.598 total time=0.0s  
 [CV 3/5; 1663/1980] START leaf\_size=36, n\_neighbors=79...  
 [CV 3/5; 1675/1980] START leaf\_size=36, n\_neighbors=91...  
 [CV 4/5; 1670/1980] END leaf\_size=36, n\_neighbors=86;; score=0.580 total time=0.0s  
 [CV 5/5; 1670/1980] START leaf\_size=36, n\_neighbors=86...  
 [CV 5/5; 1666/1980] END leaf\_size=36, n\_neighbors=82;; score=0.630 total time=0.0s  
 [CV 1/5; 1667/1980] START leaf\_size=36, n\_neighbors=83...  
 [CV 1/5; 1669/1980] END leaf\_size=36, n\_neighbors=85;; score=0.650 total time=0.1s  
 [CV 2/5; 1669/1980] START leaf\_size=36, n\_neighbors=85...  
 [CV 5/5; 1667/1980] END leaf\_size=36, n\_neighbors=83;; score=0.619 total time=0.0s  
 [CV 1/5; 1668/1980] START leaf\_size=36, n\_neighbors=84...  
 [CV 1/5; 1665/1980] END leaf\_size=36, n\_neighbors=81;; score=0.659 total time=0.0s  
 [CV 2/5; 1665/1980] START leaf\_size=36, n\_neighbors=81...  
 [CV 2/5; 1672/1980] END leaf\_size=36, n\_neighbors=88;; score=0.600 total time=0.0s  
 [CV 3/5; 1672/1980] START leaf\_size=36, n\_neighbors=88...  
 [CV 5/5; 1673/1980] END leaf\_size=36, n\_neighbors=89;; score=0.621 total time=0.0s  
 [CV 1/5; 1674/1980] START leaf\_size=36, n\_neighbors=90...  
 [CV 1/5; 1662/1980] END leaf\_size=36, n\_neighbors=78;; score=0.659 total time=0.0s  
 [CV 2/5; 1662/1980] START leaf\_size=36, n\_neighbors=78...  
 [CV 3/5; 1663/1980] END leaf\_size=36, n\_neighbors=79;; score=0.557 total time=0.0s  
 [CV 4/5; 1663/1980] START leaf\_size=36, n\_neighbors=79...  
 [CV 5/5; 1670/1980] END leaf\_size=36, n\_neighbors=86;; score=0.623 total time=0.0s  
 [CV 1/5; 1671/1980] START leaf\_size=36, n\_neighbors=87...  
 [CV 1/5; 1667/1980] END leaf\_size=36, n\_neighbors=83;; score=0.650 total time=0.0s  
 [CV 2/5; 1667/1980] START leaf\_size=36, n\_neighbors=83...  
 [CV 3/5; 1675/1980] END leaf\_size=36, n\_neighbors=91;; score=0.564 total time=0.1s

[CV 4/5; 1675/1980] START leaf\_size=36, n\_neighbors=91...  
 [CV 1/5; 1668/1980] END leaf\_size=36, n\_neighbors=84;; score=0.654 total time=0.0s  
 [CV 3/5; 1672/1980] END leaf\_size=36, n\_neighbors=88;; score=0.562 total time=0.0s  
 [CV 2/5; 1668/1980] START leaf\_size=36, n\_neighbors=84...  
 [CV 4/5; 1672/1980] START leaf\_size=36, n\_neighbors=88...  
 [CV 1/5; 1674/1980] END leaf\_size=36, n\_neighbors=90;; score=0.650 total time=0.0s  
 [CV 2/5; 1674/1980] START leaf\_size=36, n\_neighbors=90...  
 [CV 2/5; 1662/1980] END leaf\_size=36, n\_neighbors=78;; score=0.603 total time=0.0s  
 [CV 3/5; 1662/1980] START leaf\_size=36, n\_neighbors=78...  
 [CV 2/5; 1665/1980] END leaf\_size=36, n\_neighbors=81;; score=0.596 total time=0.0s  
 [CV 3/5; 1665/1980] START leaf\_size=36, n\_neighbors=81...  
 [CV 4/5; 1663/1980] END leaf\_size=36, n\_neighbors=79;; score=0.584 total time=0.0s  
 [CV 5/5; 1663/1980] START leaf\_size=36, n\_neighbors=79...  
 [CV 2/5; 1667/1980] END leaf\_size=36, n\_neighbors=83;; score=0.596 total time=0.0s  
 [CV 1/5; 1671/1980] END leaf\_size=36, n\_neighbors=87;; score=0.650 total time=0.0s  
 [CV 2/5; 1671/1980] START leaf\_size=36, n\_neighbors=87...  
 [CV 2/5; 1669/1980] END leaf\_size=36, n\_neighbors=85;; score=0.600 total time=0.1s  
 [CV 3/5; 1669/1980] START leaf\_size=36, n\_neighbors=85...  
 [CV 1/5; 1677/1980] START leaf\_size=36, n\_neighbors=93...  
 [CV 4/5; 1672/1980] END leaf\_size=36, n\_neighbors=88;; score=0.578 total time=0.0s  
 [CV 5/5; 1672/1980] START leaf\_size=36, n\_neighbors=88...  
 [CV 3/5; 1662/1980] END leaf\_size=36, n\_neighbors=78;; score=0.555 total time=0.0s  
 [CV 5/5; 1663/1980] END leaf\_size=36, n\_neighbors=79;; score=0.619 total time=0.0s  
 [CV 1/5; 1664/1980] START leaf\_size=36, n\_neighbors=80...  
 [CV 2/5; 1674/1980] END leaf\_size=36, n\_neighbors=90;; score=0.600 total time=0.0s  
 [CV 3/5; 1674/1980] START leaf\_size=36, n\_neighbors=90...  
 [CV 4/5; 1678/1980] START leaf\_size=36, n\_neighbors=94...  
 [CV 4/5; 1675/1980] END leaf\_size=36, n\_neighbors=91;; score=0.591 total time=0.0s  
 [CV 5/5; 1675/1980] START leaf\_size=36, n\_neighbors=91...  
 [CV 3/5; 1665/1980] END leaf\_size=36, n\_neighbors=81;; score=0.562 total time=0.0s  
 [CV 4/5; 1665/1980] START leaf\_size=36, n\_neighbors=81...  
 [CV 2/5; 1671/1980] END leaf\_size=36, n\_neighbors=87;; score=0.603 total time=0.0s

[CV 3/5; 1671/1980] START leaf\_size=36, n\_neighbors=87...  
 [CV 2/5; 1668/1980] END leaf\_size=36, n\_neighbors=84;; score=0.603 total time=0.1s  
 [CV 3/5; 1668/1980] START leaf\_size=36, n\_neighbors=84...  
 [CV 1/5; 1677/1980] END leaf\_size=36, n\_neighbors=93;; score=0.646 total time=0.0s  
 [CV 2/5; 1677/1980] START leaf\_size=36, n\_neighbors=93...  
 [CV 5/5; 1672/1980] END leaf\_size=36, n\_neighbors=88;; score=0.617 total time=0.0s  
 [CV 1/5; 1673/1980] START leaf\_size=36, n\_neighbors=89...  
 [CV 1/5; 1664/1980] END leaf\_size=36, n\_neighbors=80;; score=0.659 total time=0.0s  
 [CV 2/5; 1680/1980] START leaf\_size=36, n\_neighbors=96...  
 [CV 4/5; 1678/1980] END leaf\_size=36, n\_neighbors=94;; score=0.582 total time=0.0s  
 [CV 5/5; 1678/1980] START leaf\_size=36, n\_neighbors=94...  
 [CV 3/5; 1674/1980] END leaf\_size=36, n\_neighbors=90;; score=0.564 total time=0.0s  
 [CV 4/5; 1674/1980] START leaf\_size=36, n\_neighbors=90...  
 [CV 3/5; 1669/1980] END leaf\_size=36, n\_neighbors=85;; score=0.557 total time=0.1s  
 [CV 4/5; 1669/1980] START leaf\_size=36, n\_neighbors=85...  
 [CV 3/5; 1671/1980] END leaf\_size=36, n\_neighbors=87;; score=0.562 total time=0.0s  
 [CV 4/5; 1671/1980] START leaf\_size=36, n\_neighbors=87...  
 [CV 4/5; 1665/1980] END leaf\_size=36, n\_neighbors=81;; score=0.587 total time=0.0s  
 [CV 5/5; 1681/1980] START leaf\_size=36, n\_neighbors=97...  
 [CV 3/5; 1668/1980] END leaf\_size=36, n\_neighbors=84;; score=0.555 total time=0.0s  
 [CV 4/5; 1668/1980] START leaf\_size=36, n\_neighbors=84...  
 [CV 2/5; 1677/1980] END leaf\_size=36, n\_neighbors=93;; score=0.603 total time=0.0s  
 [CV 3/5; 1677/1980] START leaf\_size=36, n\_neighbors=93...  
 [CV 5/5; 1675/1980] END leaf\_size=36, n\_neighbors=91;; score=0.623 total time=0.1s  
 [CV 1/5; 1676/1980] START leaf\_size=36, n\_neighbors=92...  
 [CV 1/5; 1673/1980] END leaf\_size=36, n\_neighbors=89;; score=0.646 total time=0.0s  
 [CV 2/5; 1673/1980] START leaf\_size=36, n\_neighbors=89...  
 [CV 5/5; 1678/1980] END leaf\_size=36, n\_neighbors=94;; score=0.608 total time=0.0s  
 [CV 1/5; 1679/1980] START leaf\_size=36, n\_neighbors=95...  
 [CV 2/5; 1680/1980] END leaf\_size=36, n\_neighbors=96;; score=0.598 total time=0.0s  
 [CV 3/5; 1680/1980] START leaf\_size=36, n\_neighbors=96...  
 [CV 4/5; 1674/1980] END leaf\_size=36, n\_neighbors=90;; score=0.580 total time=0.0s

[CV 5/5; 1674/1980] START leaf\_size=36, n\_neighbors=90...  
 [CV 4/5; 1671/1980] END leaf\_size=36, n\_neighbors=87;; score=0.584 total time=0.0s  
 [CV 5/5; 1671/1980] START leaf\_size=36, n\_neighbors=87...  
 [CV 4/5; 1669/1980] END leaf\_size=36, n\_neighbors=85;; score=0.576 total time=0.0s  
 [CV 5/5; 1669/1980] START leaf\_size=36, n\_neighbors=85...  
 [CV 4/5; 1668/1980] END leaf\_size=36, n\_neighbors=84;; score=0.582 total time=0.0s  
 [CV 5/5; 1668/1980] START leaf\_size=36, n\_neighbors=84...  
 [CV 3/5; 1677/1980] END leaf\_size=36, n\_neighbors=93;; score=0.564 total time=0.0s  
 [CV 4/5; 1677/1980] START leaf\_size=36, n\_neighbors=93...  
 [CV 5/5; 1681/1980] END leaf\_size=36, n\_neighbors=97;; score=0.602 total time=0.0s  
 [CV 1/5; 1676/1980] END leaf\_size=36, n\_neighbors=92;; score=0.646 total time= 0.0s  
  
 [CV 2/5; 1676/1980] START leaf\_size=36, n\_neighbors=92...  
 [CV 1/5; 1682/1980] START leaf\_size=36, n\_neighbors=98...  
 [CV 1/5; 1679/1980] END leaf\_size=36, n\_neighbors=95;; score=0.644 total time=0.0s  
 [CV 2/5; 1679/1980] START leaf\_size=36, n\_neighbors=95...  
 [CV 3/5; 1680/1980] END leaf\_size=36, n\_neighbors=96;; score=0.564 total time=0.0s  
 [CV 4/5; 1680/1980] START leaf\_size=36, n\_neighbors=96...  
 [CV 2/5; 1673/1980] END leaf\_size=36, n\_neighbors=89;; score=0.600 total time=0.0s  
 [CV 3/5; 1673/1980] START leaf\_size=36, n\_neighbors=89...  
 [CV 5/5; 1674/1980] END leaf\_size=36, n\_neighbors=90;; score=0.617 total time=0.0s  
 [CV 1/5; 1675/1980] START leaf\_size=36, n\_neighbors=91...  
 [CV 5/5; 1671/1980] END leaf\_size=36, n\_neighbors=87;; score=0.619 total time=0.0s  
 [CV 1/5; 1672/1980] START leaf\_size=36, n\_neighbors=88...  
 [CV 5/5; 1668/1980] END leaf\_size=36, n\_neighbors=84;; score=0.626 total time=0.0s  
 [CV 3/5; 1683/1980] START leaf\_size=36, n\_neighbors=99...  
 [CV 5/5; 1669/1980] END leaf\_size=36, n\_neighbors=85;; score=0.626 total time=0.0s  
 [CV 4/5; 1677/1980] END leaf\_size=36, n\_neighbors=93;; score=0.587 total time=0.0s  
 [CV 1/5; 1670/1980] START leaf\_size=36, n\_neighbors=86...  
 [CV 5/5; 1677/1980] START leaf\_size=36, n\_neighbors=93...  
 [CV 2/5; 1679/1980] END leaf\_size=36, n\_neighbors=95;; score=0.603 total time=0.0s  
 [CV 3/5; 1679/1980] START leaf\_size=36, n\_neighbors=95...  
 [CV 4/5; 1680/1980] END leaf\_size=36, n\_neighbors=96;; score=0.582 total time=0.0s

[CV 2/5; 1676/1980] END leaf\_size=36, n\_neighbors=92;; score=0.598 total time=0.0s  
 [CV 5/5; 1680/1980] START leaf\_size=36, n\_neighbors=96...  
 [CV 3/5; 1676/1980] START leaf\_size=36, n\_neighbors=92...  
 [CV 3/5; 1673/1980] END leaf\_size=36, n\_neighbors=89;; score=0.564 total time=0.0s  
 [CV 4/5; 1673/1980] START leaf\_size=36, n\_neighbors=89...  
 [CV 1/5; 1682/1980] END leaf\_size=36, n\_neighbors=98;; score=0.635 total time=0.0s  
 [CV 2/5; 1682/1980] START leaf\_size=36, n\_neighbors=98...  
 [CV 1/5; 1675/1980] END leaf\_size=36, n\_neighbors=91;; score=0.648 total time=0.0s  
 [CV 2/5; 1675/1980] START leaf\_size=36, n\_neighbors=91...  
 [CV 1/5; 1672/1980] END leaf\_size=36, n\_neighbors=88;; score=0.652 total time=0.0s  
 [CV 1/5; 1685/1980] START leaf\_size=37, n\_neighbors=2...  
 [CV 3/5; 1683/1980] END leaf\_size=36, n\_neighbors=99;; score=0.566 total time=0.0s  
 [CV 4/5; 1683/1980] START leaf\_size=36, n\_neighbors=99...  
 [CV 5/5; 1677/1980] END leaf\_size=36, n\_neighbors=93;; score=0.617 total time=0.0s  
 [CV 1/5; 1678/1980] START leaf\_size=36, n\_neighbors=94...  
 [CV 1/5; 1670/1980] END leaf\_size=36, n\_neighbors=86;; score=0.648 total time=0.0s  
 [CV 2/5; 1670/1980] START leaf\_size=36, n\_neighbors=86...  
 [CV 3/5; 1679/1980] END leaf\_size=36, n\_neighbors=95;; score=0.566 total time=0.0s  
 [CV 4/5; 1679/1980] START leaf\_size=36, n\_neighbors=95...  
 [CV 3/5; 1676/1980] END leaf\_size=36, n\_neighbors=92;; score=0.564 total time=0.0s  
 [CV 4/5; 1676/1980] START leaf\_size=36, n\_neighbors=92...  
 [CV 1/5; 1685/1980] END leaf\_size=37, n\_neighbors=2;; score=0.566 total time=0.0s  
 [CV 2/5; 1685/1980] START leaf\_size=37, n\_neighbors=2...  
 [CV 4/5; 1673/1980] END leaf\_size=36, n\_neighbors=89;; score=0.591 total time=0.0s  
 [CV 5/5; 1680/1980] END leaf\_size=36, n\_neighbors=96;; score=0.604 total time=0.0s  
 [CV 1/5; 1681/1980] START leaf\_size=36, n\_neighbors=97...  
 [CV 4/5; 1686/1980] START leaf\_size=37, n\_neighbors=3...  
 [CV 2/5; 1675/1980] END leaf\_size=36, n\_neighbors=91;; score=0.605 total time=0.0s  
 [CV 2/5; 1688/1980] START leaf\_size=37, n\_neighbors=5...  
 [CV 4/5; 1683/1980] END leaf\_size=36, n\_neighbors=99;; score=0.589 total time=0.0s  
 [CV 5/5; 1683/1980] START leaf\_size=36, n\_neighbors=99...  
 [CV 2/5; 1685/1980] END leaf\_size=37, n\_neighbors=2;; score=0.579 total time=0.0s

[CV 3/5; 1685/1980] START leaf\_size=37, n\_neighbors=2...  
 [CV 1/5; 1678/1980] END leaf\_size=36, n\_neighbors=94;; score=0.644 total time=0.0s  
 [CV 2/5; 1678/1980] START leaf\_size=36, n\_neighbors=94...  
 [CV 2/5; 1682/1980] END leaf\_size=36, n\_neighbors=98;; score=0.596 total time=0.1s  
 [CV 3/5; 1682/1980] START leaf\_size=36, n\_neighbors=98...  
 [CV 4/5; 1686/1980] END leaf\_size=37, n\_neighbors=3;; score=0.584 total time=0.0s  
 [CV 5/5; 1686/1980] START leaf\_size=37, n\_neighbors=3...  
 [CV 4/5; 1679/1980] END leaf\_size=36, n\_neighbors=95;; score=0.584 total time=0.0s  
 [CV 5/5; 1679/1980] START leaf\_size=36, n\_neighbors=95...  
 [CV 2/5; 1670/1980] END leaf\_size=36, n\_neighbors=86;; score=0.598 total time=0.0s  
 [CV 3/5; 1670/1980] START leaf\_size=36, n\_neighbors=86...  
 [CV 2/5; 1688/1980] END leaf\_size=37, n\_neighbors=5;; score=0.562 total time=0.0s  
 [CV 3/5; 1688/1980] START leaf\_size=37, n\_neighbors=5...  
 [CV 4/5; 1676/1980] END leaf\_size=36, n\_neighbors=92;; score=0.582 total time=0.0s  
 [CV 5/5; 1676/1980] START leaf\_size=36, n\_neighbors=92...  
 [CV 1/5; 1681/1980] END leaf\_size=36, n\_neighbors=97;; score=0.641 total time=0.0s  
 [CV 2/5; 1681/1980] START leaf\_size=36, n\_neighbors=97...  
 [CV 3/5; 1685/1980] END leaf\_size=37, n\_neighbors=2;; score=0.512 total time=0.0s  
 [CV 4/5; 1685/1980] START leaf\_size=37, n\_neighbors=2...  
 [CV 5/5; 1683/1980] END leaf\_size=36, n\_neighbors=99;; score=0.610 total time=0.0s  
 [CV 1/5; 1684/1980] START leaf\_size=37, n\_neighbors=1...  
 [CV 2/5; 1678/1980] END leaf\_size=36, n\_neighbors=94;; score=0.600 total time=0.0s  
 [CV 3/5; 1678/1980] START leaf\_size=36, n\_neighbors=94...  
 [CV 5/5; 1686/1980] END leaf\_size=37, n\_neighbors=3;; score=0.593 total time=0.0s  
 [CV 1/5; 1687/1980] START leaf\_size=37,  
 n\_neighbors=4...[CV 3/5; 1688/1980] END leaf\_size=37,  
 n\_neighbors=5;; score=0.536 total time= 0.0s  
  
 [CV 4/5; 1688/1980] START leaf\_size=37, n\_neighbors=5...  
 [CV 4/5; 1685/1980] END leaf\_size=37, n\_neighbors=2;; score=0.571 total time=0.0s  
 [CV 5/5; 1685/1980] START leaf\_size=37, n\_neighbors=2...  
 [CV 5/5; 1679/1980] END leaf\_size=36, n\_neighbors=95;; score=0.608 total time=0.0s  
 [CV 1/5; 1680/1980] START leaf\_size=36, n\_neighbors=96...  
 [CV 1/5; 1684/1980] END leaf\_size=37, n\_neighbors=1;; score=0.516 total time=

```

0.0s
[CV 2/5; 1684/1980] START leaf_size=37, n_neighbors=1...
[CV 3/5; 1682/1980] END leaf_size=36, n_neighbors=98;; score=0.562 total time=
0.1s
[CV 4/5; 1682/1980] START leaf_size=36, n_neighbors=98...
[CV 2/5; 1681/1980] END leaf_size=36, n_neighbors=97;; score=0.594 total time=
0.0s
[CV 3/5; 1681/1980] START leaf_size=36, n_neighbors=97...
[CV 4/5; 1688/1980] END leaf_size=37, n_neighbors=5;; score=0.589 total time=
0.0s
[CV 5/5; 1688/1980] START leaf_size=37, n_neighbors=5...
[CV 5/5; 1685/1980] END leaf_size=37, n_neighbors=2;; score=0.574 total time=
0.0s
[CV 1/5; 1686/1980] START leaf_size=37, n_neighbors=3...
[CV 3/5; 1678/1980] END leaf_size=36, n_neighbors=94;; score=0.562 total time=
0.0s
[CV 1/5; 1687/1980] END leaf_size=37, n_neighbors=4;; score=0.562 total time=
0.0s
[CV 2/5; 1687/1980] START leaf_size=37, n_neighbors=4...
[CV 5/5; 1689/1980] START leaf_size=37, n_neighbors=6...
[CV 3/5; 1670/1980] END leaf_size=36, n_neighbors=86;; score=0.559 total time=
0.1s
[CV 3/5; 1691/1980] START leaf_size=37, n_neighbors=8...
[CV 2/5; 1684/1980] END leaf_size=37, n_neighbors=1;; score=0.568 total time=
0.0s
[CV 3/5; 1684/1980] START leaf_size=37, n_neighbors=1...
[CV 5/5; 1676/1980] END leaf_size=36, n_neighbors=92;; score=0.621 total time=
0.1s
[CV 1/5; 1680/1980] END leaf_size=36, n_neighbors=96;; score=0.637 total time=
0.0s
[CV 5/5; 1688/1980] END leaf_size=37, n_neighbors=5;; score=0.591 total time=
0.0s
[CV 1/5; 1689/1980] START leaf_size=37, n_neighbors=6...
[CV 1/5; 1693/1980] START leaf_size=37, n_neighbors=10...
[CV 1/5; 1686/1980] END leaf_size=37, n_neighbors=3;; score=0.557 total time=
0.0s
[CV 2/5; 1686/1980] START leaf_size=37, n_neighbors=3...
[CV 4/5; 1694/1980] START leaf_size=37, n_neighbors=11...
[CV 5/5; 1689/1980] END leaf_size=37, n_neighbors=6;; score=0.582 total time=
0.0s[CV 3/5; 1681/1980] END leaf_size=36, n_neighbors=97;; score=0.564 total
time= 0.0s

[CV 4/5; 1681/1980] START leaf_size=36, n_neighbors=97...
[CV 1/5; 1690/1980] START leaf_size=37, n_neighbors=7...
[CV 2/5; 1687/1980] END leaf_size=37, n_neighbors=4;; score=0.581 total time=
0.0s
[CV 3/5; 1687/1980] START leaf_size=37, n_neighbors=4...
[CV 4/5; 1682/1980] END leaf_size=36, n_neighbors=98;; score=0.584 total time=

```

0.0s  
 [CV 5/5; 1682/1980] START leaf\_size=36, n\_neighbors=98...  
 [CV 3/5; 1684/1980] END leaf\_size=37, n\_neighbors=1;; score=0.490 total time=  
 0.0s  
 [CV 4/5; 1684/1980] START leaf\_size=37, n\_neighbors=1...  
 [CV 3/5; 1691/1980] END leaf\_size=37, n\_neighbors=8;; score=0.551 total time=  
 0.0s  
 [CV 4/5; 1691/1980] START leaf\_size=37, n\_neighbors=8...  
 [CV 2/5; 1686/1980] END leaf\_size=37, n\_neighbors=3;; score=0.579 total time=  
 0.0s  
 [CV 3/5; 1686/1980] START leaf\_size=37, n\_neighbors=3...  
 [CV 1/5; 1689/1980] END leaf\_size=37, n\_neighbors=6;; score=0.570 total time=  
 0.0s  
 [CV 2/5; 1689/1980] START leaf\_size=37, n\_neighbors=6...  
 [CV 4/5; 1684/1980] END leaf\_size=37, n\_neighbors=1;; score=0.539 total time=  
 0.0s  
 [CV 5/5; 1684/1980] START leaf\_size=37, n\_neighbors=1...  
 [CV 1/5; 1693/1980] END leaf\_size=37, n\_neighbors=10;; score=0.611 total time=  
 0.0s  
 [CV 2/5; 1693/1980] START leaf\_size=37, n\_neighbors=10...  
 [CV 4/5; 1694/1980] END leaf\_size=37, n\_neighbors=11;; score=0.589 total time=  
 0.0s  
 [CV 3/5; 1687/1980] END leaf\_size=37, n\_neighbors=4;; score=0.544 total time=  
 0.0s  
 [CV 5/5; 1694/1980] START leaf\_size=37,  
 n\_neighbors=11...[CV 4/5; 1687/1980] START leaf\_size=37,  
 n\_neighbors=4...  
  
 [CV 1/5; 1690/1980] END leaf\_size=37, n\_neighbors=7;; score=0.568 total time=  
 0.0s  
 [CV 2/5; 1690/1980] START leaf\_size=37, n\_neighbors=7...  
 [CV 3/5; 1686/1980] END leaf\_size=37, n\_neighbors=3;; score=0.484 total time=  
 0.0s[CV 2/5; 1689/1980] END leaf\_size=37, n\_neighbors=6;; score=0.546 total  
 time= 0.0s  
  
 [CV 3/5; 1689/1980] START leaf\_size=37, n\_neighbors=6...  
 [CV 4/5; 1691/1980] END leaf\_size=37, n\_neighbors=8;; score=0.617 total time=  
 0.0s  
 [CV 5/5; 1691/1980] START leaf\_size=37, n\_neighbors=8...  
 [CV 5/5; 1682/1980] END leaf\_size=36, n\_neighbors=98;; score=0.606 total time=  
 0.0s  
 [CV 1/5; 1683/1980] START leaf\_size=36, n\_neighbors=99...  
 [CV 4/5; 1681/1980] END leaf\_size=36, n\_neighbors=97;; score=0.580 total time=  
 0.0s[CV 2/5; 1696/1980] START leaf\_size=37,  
 n\_neighbors=13...  
  
 [CV 5/5; 1684/1980] END leaf\_size=37, n\_neighbors=1;; score=0.567 total time=  
 0.0s



[CV 5/5; 1697/1980] START leaf\_size=37, n\_neighbors=14...  
 [CV 4/5; 1687/1980] END leaf\_size=37, n\_neighbors=4;; score=0.580 total time=0.0s  
 [CV 5/5; 1687/1980] START leaf\_size=37, n\_neighbors=4...  
 [CV 3/5; 1699/1980] START leaf\_size=37, n\_neighbors=16...  
 [CV 5/5; 1694/1980] END leaf\_size=37, n\_neighbors=11;; score=0.606 total time=0.0s  
 [CV 1/5; 1695/1980] START leaf\_size=37, n\_neighbors=12...  
 [CV 2/5; 1690/1980] END leaf\_size=37, n\_neighbors=7;; score=0.559 total time=0.0s  
 [CV 3/5; 1690/1980] START leaf\_size=37, n\_neighbors=7...  
 [CV 2/5; 1693/1980] END leaf\_size=37, n\_neighbors=10;; score=0.568 total time=0.0s  
 [CV 3/5; 1693/1980] START leaf\_size=37, n\_neighbors=10...  
 [CV 3/5; 1689/1980] END leaf\_size=37, n\_neighbors=6;; score=0.555 total time=0.0s  
 [CV 4/5; 1689/1980] START leaf\_size=37, n\_neighbors=6...  
 [CV 2/5; 1696/1980] END leaf\_size=37, n\_neighbors=13;; score=0.570 total time=0.0s  
 [CV 3/5; 1696/1980] START leaf\_size=37, n\_neighbors=13...  
 [CV 5/5; 1691/1980] END leaf\_size=37, n\_neighbors=8;; score=0.608 total time=0.0s  
 [CV 1/5; 1692/1980] START leaf\_size=37, n\_neighbors=9...  
 [CV 5/5; 1687/1980] END leaf\_size=37, n\_neighbors=4;; score=0.593 total time=0.0s  
 [CV 1/5; 1688/1980] START leaf\_size=37, n\_neighbors=5...  
 [CV 5/5; 1697/1980] END leaf\_size=37, n\_neighbors=14;; score=0.606 total time=0.0s  
 [CV 1/5; 1698/1980] START leaf\_size=37, n\_neighbors=15...  
 [CV 1/5; 1695/1980] END leaf\_size=37, n\_neighbors=12;; score=0.648 total time=0.0s  
 [CV 2/5; 1695/1980] START leaf\_size=37, n\_neighbors=12...  
 [CV 1/5; 1683/1980] END leaf\_size=36, n\_neighbors=99;; score=0.641 total time=0.0s  
 [CV 2/5; 1683/1980] START leaf\_size=36, n\_neighbors=99...  
 [CV 3/5; 1690/1980] END leaf\_size=37, n\_neighbors=7;; score=0.551 total time=0.0s  
 [CV 4/5; 1690/1980] START leaf\_size=37, n\_neighbors=7...  
 [CV 3/5; 1693/1980] END leaf\_size=37, n\_neighbors=10;; score=0.549 total time=0.0s  
 [CV 4/5; 1693/1980] START leaf\_size=37, n\_neighbors=10...  
 [CV 4/5; 1689/1980] END leaf\_size=37, n\_neighbors=6;; score=0.578 total time=0.0s  
 [CV 3/5; 1699/1980] END leaf\_size=37, n\_neighbors=16;; score=0.557 total time=0.0s  
 [CV 4/5; 1699/1980] START leaf\_size=37, n\_neighbors=16...  
 [CV 1/5; 1701/1980] START leaf\_size=37, n\_neighbors=18...  
 [CV 3/5; 1696/1980] END leaf\_size=37, n\_neighbors=13;; score=0.553 total time=

0.0s  
 [CV 4/5; 1696/1980] START leaf\_size=37, n\_neighbors=13...  
 [CV 1/5; 1688/1980] END leaf\_size=37, n\_neighbors=5;;, score=0.546 total time=  
 0.0s  
 [CV 4/5; 1702/1980] START leaf\_size=37, n\_neighbors=19...  
 [CV 1/5; 1698/1980] END leaf\_size=37, n\_neighbors=15;;, score=0.637 total time=  
 0.0s  
 [CV 2/5; 1698/1980] START leaf\_size=37, n\_neighbors=15...  
 [CV 4/5; 1690/1980] END leaf\_size=37, n\_neighbors=7;;, score=0.584 total time=  
 0.0s  
 [CV 5/5; 1690/1980] START leaf\_size=37, n\_neighbors=7...  
 [CV 1/5; 1692/1980] END leaf\_size=37, n\_neighbors=9;;, score=0.592 total time=  
 0.0s  
 [CV 2/5; 1692/1980] START leaf\_size=37, n\_neighbors=9...  
 [CV 2/5; 1695/1980] END leaf\_size=37, n\_neighbors=12;;, score=0.581 total time=  
 0.0s  
 [CV 3/5; 1695/1980] START leaf\_size=37, n\_neighbors=12...  
 [CV 4/5; 1693/1980] END leaf\_size=37, n\_neighbors=10;;, score=0.597 total time=  
 0.0s  
 [CV 5/5; 1693/1980] START leaf\_size=37, n\_neighbors=10...  
 [CV 1/5; 1701/1980] END leaf\_size=37, n\_neighbors=18;;, score=0.635 total time=  
 0.0s  
 [CV 2/5; 1701/1980] START leaf\_size=37, n\_neighbors=18...  
 [CV 4/5; 1696/1980] END leaf\_size=37, n\_neighbors=13;;, score=0.574 total time=  
 0.0s  
 [CV 5/5; 1696/1980] START leaf\_size=37, n\_neighbors=13...  
 [CV 4/5; 1699/1980] END leaf\_size=37, n\_neighbors=16;;, score=0.584 total time=  
 0.0s  
 [CV 5/5; 1699/1980] START leaf\_size=37, n\_neighbors=16...  
 [CV 2/5; 1683/1980] END leaf\_size=36, n\_neighbors=99;;, score=0.598 total time=  
 0.0s  
 [CV 2/5; 1704/1980] START leaf\_size=37, n\_neighbors=21...  
 [CV 4/5; 1702/1980] END leaf\_size=37, n\_neighbors=19;;, score=0.589 total time=  
 0.0s  
 [CV 5/5; 1702/1980] START leaf\_size=37, n\_neighbors=19...  
 [CV 5/5; 1690/1980] END leaf\_size=37, n\_neighbors=7;;, score=0.613 total time=  
 0.0s  
 [CV 1/5; 1691/1980] START leaf\_size=37, n\_neighbors=8...  
 [CV 2/5; 1698/1980] END leaf\_size=37, n\_neighbors=15;;, score=0.570 total time=  
 0.0s  
 [CV 3/5; 1698/1980] START leaf\_size=37, n\_neighbors=15...  
 [CV 3/5; 1695/1980] END leaf\_size=37, n\_neighbors=12;;, score=0.546 total time=  
 0.0s  
 [CV 4/5; 1695/1980] START leaf\_size=37, n\_neighbors=12...  
 [CV 2/5; 1692/1980] END leaf\_size=37, n\_neighbors=9;;, score=0.570 total time=  
 0.0s  
 [CV 3/5; 1692/1980] START leaf\_size=37, n\_neighbors=9...  
 [CV 5/5; 1696/1980] END leaf\_size=37, n\_neighbors=13;;, score=0.591 total time=

0.0s  
 [CV 1/5; 1697/1980] START leaf\_size=37, n\_neighbors=14...  
 [CV 2/5; 1701/1980] END leaf\_size=37, n\_neighbors=18;;, score=0.590 total time=  
 0.0s  
 [CV 3/5; 1701/1980] START leaf\_size=37, n\_neighbors=18...  
 [CV 5/5; 1693/1980] END leaf\_size=37, n\_neighbors=10;;, score=0.615 total time=  
 0.0s  
 [CV 1/5; 1694/1980] START leaf\_size=37, n\_neighbors=11...  
 [CV 5/5; 1699/1980] END leaf\_size=37, n\_neighbors=16;;, score=0.621 total time=  
 0.0s  
 [CV 1/5; 1700/1980] START leaf\_size=37, n\_neighbors=17...  
 [CV 5/5; 1702/1980] END leaf\_size=37, n\_neighbors=19;;, score=0.626 total time=  
 0.0s  
 [CV 1/5; 1703/1980] START leaf\_size=37, n\_neighbors=20...  
 [CV 3/5; 1698/1980] END leaf\_size=37, n\_neighbors=15;;, score=0.557 total time=  
 0.0s  
 [CV 4/5; 1698/1980] START leaf\_size=37, n\_neighbors=15...  
 [CV 2/5; 1704/1980] END leaf\_size=37, n\_neighbors=21;;, score=0.581 total time=  
 0.0s  
 [CV 3/5; 1704/1980] START leaf\_size=37, n\_neighbors=21...  
 [CV 1/5; 1691/1980] END leaf\_size=37, n\_neighbors=8;;, score=0.568 total time=  
 0.0s  
 [CV 2/5; 1691/1980] START leaf\_size=37, n\_neighbors=8...  
 [CV 1/5; 1697/1980] END leaf\_size=37, n\_neighbors=14;;, score=0.644 total time=  
 0.0s  
 [CV 2/5; 1697/1980] START leaf\_size=37, n\_neighbors=14...  
 [CV 3/5; 1701/1980] END leaf\_size=37, n\_neighbors=18;;, score=0.555 total time=  
 0.0s  
 [CV 4/5; 1701/1980] START leaf\_size=37, n\_neighbors=18...  
 [CV 3/5; 1692/1980] END leaf\_size=37, n\_neighbors=9;;, score=0.559 total time=  
 0.0s  
 [CV 4/5; 1692/1980] START leaf\_size=37, n\_neighbors=9...  
 [CV 4/5; 1698/1980] END leaf\_size=37, n\_neighbors=15;;, score=0.584 total time=  
 0.0s  
 [CV 5/5; 1698/1980] START leaf\_size=37, n\_neighbors=15...  
 [CV 1/5; 1703/1980] END leaf\_size=37, n\_neighbors=20;;, score=0.618 total time=  
 0.0s  
 [CV 2/5; 1703/1980] START leaf\_size=37, n\_neighbors=20...  
 [CV 2/5; 1691/1980] END leaf\_size=37, n\_neighbors=8;;, score=0.551 total time=  
 0.0s  
 [CV 3/5; 1704/1980] END leaf\_size=37, n\_neighbors=21;;, score=0.559 total  
 time= 0.0s  
  
 [CV 4/5; 1704/1980] START leaf\_size=37, n\_neighbors=21...  
 [CV 4/5; 1695/1980] END leaf\_size=37, n\_neighbors=12;;, score=0.576 total time=  
 0.0s  
 [CV 5/5; 1695/1980] START leaf\_size=37, n\_neighbors=12...  
 [CV 5/5; 1705/1980] START leaf\_size=37, n\_neighbors=22...  
 [CV 1/5; 1694/1980] END leaf\_size=37, n\_neighbors=11;;, score=0.624 total time=

0.0s  
[CV 2/5; 1694/1980] START leaf\_size=37, n\_neighbors=11...  
[CV 2/5; 1697/1980] END leaf\_size=37, n\_neighbors=14;; score=0.572 total time=  
0.0s  
[CV 3/5; 1697/1980] START leaf\_size=37, n\_neighbors=14...  
[CV 4/5; 1701/1980] END leaf\_size=37, n\_neighbors=18;; score=0.600 total time=  
0.0s  
[CV 5/5; 1701/1980] START leaf\_size=37, n\_neighbors=18...  
[CV 1/5; 1700/1980] END leaf\_size=37, n\_neighbors=17;; score=0.631 total time=  
0.0s  
[CV 5/5; 1698/1980] END leaf\_size=37, n\_neighbors=15;; score=0.615 total time=  
0.0s  
[CV 1/5; 1699/1980] START leaf\_size=37, n\_neighbors=16...  
[CV 2/5; 1703/1980] END leaf\_size=37, n\_neighbors=20;; score=0.583 total time=  
0.0s  
[CV 3/5; 1703/1980] START leaf\_size=37, n\_neighbors=20...  
[CV 2/5; 1700/1980] START leaf\_size=37, n\_neighbors=17...  
[CV 5/5; 1695/1980] END leaf\_size=37, n\_neighbors=12;; score=0.613 total time=  
0.0s  
[CV 1/5; 1696/1980] START leaf\_size=37, n\_neighbors=13...  
[CV 4/5; 1704/1980] END leaf\_size=37, n\_neighbors=21;; score=0.606 total time=  
0.0s  
[CV 5/5; 1704/1980] START leaf\_size=37, n\_neighbors=21...  
[CV 5/5; 1705/1980] END leaf\_size=37, n\_neighbors=22;; score=0.628 total time=  
0.0s  
[CV 1/5; 1706/1980] START leaf\_size=37, n\_neighbors=23...  
[CV 3/5; 1697/1980] END leaf\_size=37, n\_neighbors=14;; score=0.544 total time=  
0.0s  
[CV 4/5; 1697/1980] START leaf\_size=37, n\_neighbors=14...  
[CV 5/5; 1701/1980] END leaf\_size=37, n\_neighbors=18;; score=0.617 total time=  
0.0s  
[CV 1/5; 1702/1980] START leaf\_size=37, n\_neighbors=19...  
[CV 2/5; 1694/1980] END leaf\_size=37, n\_neighbors=11;; score=0.579 total time=  
0.0s  
[CV 3/5; 1694/1980] START leaf\_size=37, n\_neighbors=11...  
[CV 1/5; 1699/1980] END leaf\_size=37, n\_neighbors=16;; score=0.637 total time=  
0.0s  
[CV 2/5; 1699/1980] START leaf\_size=37, n\_neighbors=16...  
[CV 3/5; 1703/1980] END leaf\_size=37, n\_neighbors=20;; score=0.553 total time=  
0.0s  
[CV 4/5; 1703/1980] START leaf\_size=37, n\_neighbors=20...  
[CV 1/5; 1696/1980] END leaf\_size=37, n\_neighbors=13;; score=0.633 total time=  
0.0s  
[CV 3/5; 1707/1980] START leaf\_size=37, n\_neighbors=24...  
[CV 5/5; 1704/1980] END leaf\_size=37, n\_neighbors=21;; score=0.621 total time=  
0.0s  
[CV 1/5; 1705/1980] START leaf\_size=37, n\_neighbors=22...  
[CV 4/5; 1697/1980] END leaf\_size=37, n\_neighbors=14;; score=0.584 total time=

0.0s  
 [CV 1/5; 1706/1980] END leaf\_size=37, n\_neighbors=23;; score=0.646 total time=0.0s  
 [CV 2/5; 1706/1980] START leaf\_size=37, n\_neighbors=23...  
 [CV 1/5; 1702/1980] END leaf\_size=37, n\_neighbors=19;; score=0.637 total time=0.0s  
 [CV 2/5; 1702/1980] START leaf\_size=37, n\_neighbors=19...  
 [CV 4/5; 1692/1980] END leaf\_size=37, n\_neighbors=9;; score=0.589 total time=0.1s  
 [CV 5/5; 1692/1980] START leaf\_size=37, n\_neighbors=9...  
 [CV 2/5; 1700/1980] END leaf\_size=37, n\_neighbors=17;; score=0.568 total time=0.0s  
 [CV 3/5; 1700/1980] START leaf\_size=37, n\_neighbors=17...  
 [CV 3/5; 1694/1980] END leaf\_size=37, n\_neighbors=11;; score=0.551 total time=0.0s  
 [CV 4/5; 1703/1980] END leaf\_size=37, n\_neighbors=20;; score=0.600 total time=0.0s  
 [CV 5/5; 1703/1980] START leaf\_size=37, n\_neighbors=20...  
 [CV 2/5; 1699/1980] END leaf\_size=37, n\_neighbors=16;; score=0.575 total time=0.0s  
 [CV 4/5; 1710/1980] START leaf\_size=37, n\_neighbors=27...  
 [CV 1/5; 1709/1980] START leaf\_size=37, n\_neighbors=26...  
 [CV 2/5; 1712/1980] START leaf\_size=37, n\_neighbors=29...  
 [CV 3/5; 1707/1980] END leaf\_size=37, n\_neighbors=24;; score=0.564 total time=0.0s  
 [CV 4/5; 1707/1980] START leaf\_size=37, n\_neighbors=24...  
 [CV 2/5; 1702/1980] END leaf\_size=37, n\_neighbors=19;; score=0.583 total time=0.0s  
 [CV 2/5; 1706/1980] END leaf\_size=37, n\_neighbors=23;; score=0.583 total time=0.0s  
 [CV 3/5; 1702/1980] START leaf\_size=37, n\_neighbors=19...  
  
 [CV 3/5; 1706/1980] START leaf\_size=37, n\_neighbors=23...  
 [CV 1/5; 1705/1980] END leaf\_size=37, n\_neighbors=22;; score=0.622 total time=0.0s  
 [CV 2/5; 1705/1980] START leaf\_size=37, n\_neighbors=22...  
 [CV 3/5; 1700/1980] END leaf\_size=37, n\_neighbors=17;; score=0.564 total time=0.0s  
 [CV 4/5; 1700/1980] START leaf\_size=37, n\_neighbors=17...  
 [CV 5/5; 1692/1980] END leaf\_size=37, n\_neighbors=9;; score=0.613 total time=0.0s  
 [CV 5/5; 1713/1980] START leaf\_size=37, n\_neighbors=30...  
 [CV 5/5; 1703/1980] END leaf\_size=37, n\_neighbors=20;; score=0.632 total time=0.0s  
 [CV 1/5; 1704/1980] START leaf\_size=37, n\_neighbors=21...  
 [CV 4/5; 1710/1980] END leaf\_size=37, n\_neighbors=27;; score=0.593 total time=0.0s  
 [CV 5/5; 1710/1980] START leaf\_size=37, n\_neighbors=27...

[CV 2/5; 1712/1980] END leaf\_size=37, n\_neighbors=29;; score=0.600 total time=0.0s  
 [CV 3/5; 1712/1980] START leaf\_size=37, n\_neighbors=29...  
 [CV 4/5; 1707/1980] END leaf\_size=37, n\_neighbors=24;; score=0.597 total time=0.0s  
 [CV 5/5; 1707/1980] START leaf\_size=37, n\_neighbors=24...  
 [CV 3/5; 1702/1980] END leaf\_size=37, n\_neighbors=19;; score=0.551 total time=0.0s  
 [CV 2/5; 1705/1980] END leaf\_size=37, n\_neighbors=22;; score=0.587 total time=0.0s  
 [CV 3/5; 1705/1980] START leaf\_size=37, n\_neighbors=22...  
 [CV 3/5; 1706/1980] END leaf\_size=37, n\_neighbors=23;; score=0.557 total time=0.0s  
 [CV 4/5; 1706/1980] START leaf\_size=37, n\_neighbors=23...  
 [CV 3/5; 1715/1980] START leaf\_size=37, n\_neighbors=32...  
 [CV 1/5; 1704/1980] END leaf\_size=37, n\_neighbors=21;; score=0.626 total time=0.0s  
 [CV 1/5; 1709/1980] END leaf\_size=37, n\_neighbors=26;; score=0.639 total time=0.0s  
 [CV 2/5; 1709/1980] START leaf\_size=37, n\_neighbors=26...  
 [CV 1/5; 1717/1980] START leaf\_size=37, n\_neighbors=34...  
 [CV 5/5; 1710/1980] END leaf\_size=37, n\_neighbors=27;; score=0.630 total time=0.0s  
 [CV 1/5; 1711/1980] START leaf\_size=37, n\_neighbors=28...  
 [CV 5/5; 1713/1980] END leaf\_size=37, n\_neighbors=30;; score=0.632 total time=0.0s  
 [CV 1/5; 1714/1980] START leaf\_size=37, n\_neighbors=31...  
 [CV 3/5; 1712/1980] END leaf\_size=37, n\_neighbors=29;; score=0.577 total time=0.0s  
 [CV 4/5; 1712/1980] START leaf\_size=37, n\_neighbors=29...  
 [CV 5/5; 1707/1980] END leaf\_size=37, n\_neighbors=24;; score=0.647 total time=0.0s  
 [CV 1/5; 1708/1980] START leaf\_size=37, n\_neighbors=25...  
 [CV 3/5; 1705/1980] END leaf\_size=37, n\_neighbors=22;; score=0.555 total time=0.0s  
 [CV 4/5; 1705/1980] START leaf\_size=37, n\_neighbors=22...  
 [CV 4/5; 1706/1980] END leaf\_size=37, n\_neighbors=23;; score=0.600 total time=0.0s  
 [CV 5/5; 1706/1980] START leaf\_size=37, n\_neighbors=23...  
 [CV 3/5; 1715/1980] END leaf\_size=37, n\_neighbors=32;; score=0.577 total time=0.0s  
 [CV 4/5; 1715/1980] START leaf\_size=37, n\_neighbors=32...  
 [CV 4/5; 1700/1980] END leaf\_size=37, n\_neighbors=17;; score=0.580 total time=0.0s  
 [CV 5/5; 1700/1980] START leaf\_size=37, n\_neighbors=17...  
 [CV 1/5; 1717/1980] END leaf\_size=37, n\_neighbors=34;; score=0.644 total time=0.0s  
 [CV 2/5; 1717/1980] START leaf\_size=37, n\_neighbors=34...

[CV 1/5; 1711/1980] END leaf\_size=37, n\_neighbors=28;; score=0.650 total time=0.0s  
 [CV 2/5; 1711/1980] START leaf\_size=37, n\_neighbors=28...  
 [CV 4/5; 1705/1980] END leaf\_size=37, n\_neighbors=22;; score=0.600 total time=0.0s  
 [CV 4/5; 1712/1980] END leaf\_size=37, n\_neighbors=29;; score=0.600 total time= 0.0s  
  
 [CV 5/5; 1712/1980] START leaf\_size=37, n\_neighbors=29...  
 [CV 5/5; 1706/1980] END leaf\_size=37, n\_neighbors=23;; score=0.643 total time=0.0s  
 [CV 1/5; 1707/1980] START leaf\_size=37, n\_neighbors=24...  
 [CV 1/5; 1708/1980] END leaf\_size=37, n\_neighbors=25;; score=0.646 total time=0.0s  
 [CV 2/5; 1708/1980] START leaf\_size=37, n\_neighbors=25...  
 [CV 4/5; 1715/1980] END leaf\_size=37, n\_neighbors=32;; score=0.593 total time=0.0s  
 [CV 4/5; 1718/1980] START leaf\_size=37, n\_neighbors=35...  
 [CV 5/5; 1715/1980] START leaf\_size=37, n\_neighbors=32...  
 [CV 1/5; 1714/1980] END leaf\_size=37, n\_neighbors=31;; score=0.644 total time=0.0s  
 [CV 2/5; 1714/1980] START leaf\_size=37, n\_neighbors=31...  
 [CV 2/5; 1709/1980] END leaf\_size=37, n\_neighbors=26;; score=0.600 total time=0.0s  
 [CV 3/5; 1709/1980] START leaf\_size=37, n\_neighbors=26...  
 [CV 5/5; 1700/1980] END leaf\_size=37, n\_neighbors=17;; score=0.610 total time=0.0s  
 [CV 2/5; 1720/1980] START leaf\_size=37, n\_neighbors=37...  
 [CV 2/5; 1717/1980] END leaf\_size=37, n\_neighbors=34;; score=0.600 total time=0.0s  
 [CV 3/5; 1717/1980] START leaf\_size=37, n\_neighbors=34...  
 [CV 2/5; 1711/1980] END leaf\_size=37, n\_neighbors=28;; score=0.598 total time=0.0s  
 [CV 3/5; 1711/1980] START leaf\_size=37, n\_neighbors=28...  
 [CV 1/5; 1707/1980] END leaf\_size=37, n\_neighbors=24;; score=0.646 total time=0.0s  
 [CV 2/5; 1707/1980] START leaf\_size=37, n\_neighbors=24...  
 [CV 5/5; 1712/1980] END leaf\_size=37, n\_neighbors=29;; score=0.639 total time=0.0s  
 [CV 1/5; 1713/1980] START leaf\_size=37, n\_neighbors=30...  
 [CV 5/5; 1715/1980] END leaf\_size=37, n\_neighbors=32;; score=0.628 total time=0.0s  
 [CV 1/5; 1716/1980] START leaf\_size=37, n\_neighbors=33...  
 [CV 4/5; 1718/1980] END leaf\_size=37, n\_neighbors=35;; score=0.604 total time=0.0s  
 [CV 2/5; 1708/1980] END leaf\_size=37, n\_neighbors=25;; score=0.598 total time=0.0s  
 [CV 5/5; 1718/1980] START leaf\_size=37, n\_neighbors=35...  
 [CV 3/5; 1708/1980] START leaf\_size=37, n\_neighbors=25...

[CV 3/5; 1709/1980] END leaf\_size=37, n\_neighbors=26;; score=0.564 total time=0.0s  
 [CV 4/5; 1709/1980] START leaf\_size=37, n\_neighbors=26..  
 [CV 2/5; 1714/1980] END leaf\_size=37, n\_neighbors=31;; score=0.603 total time=0.0s  
 [CV 3/5; 1714/1980] START leaf\_size=37, n\_neighbors=31..  
 [CV 3/5; 1717/1980] END leaf\_size=37, n\_neighbors=34;; score=0.577 total time=0.0s  
 [CV 4/5; 1717/1980] START leaf\_size=37, n\_neighbors=34..  
 [CV 2/5; 1720/1980] END leaf\_size=37, n\_neighbors=37;; score=0.607 total time=0.0s  
 [CV 3/5; 1720/1980] START leaf\_size=37, n\_neighbors=37..  
 [CV 3/5; 1711/1980] END leaf\_size=37, n\_neighbors=28;; score=0.568 total time=0.0s  
 [CV 4/5; 1711/1980] START leaf\_size=37, n\_neighbors=28..  
 [CV 2/5; 1707/1980] END leaf\_size=37, n\_neighbors=24;; score=0.596 total time=0.0s  
 [CV 1/5; 1713/1980] END leaf\_size=37, n\_neighbors=30;; score=0.639 total time=0.0s  
 [CV 2/5; 1713/1980] START leaf\_size=37, n\_neighbors=30..  
 [CV 5/5; 1721/1980] START leaf\_size=37, n\_neighbors=38..  
 [CV 1/5; 1716/1980] END leaf\_size=37, n\_neighbors=33;; score=0.646 total time=0.0s  
 [CV 2/5; 1716/1980] START leaf\_size=37, n\_neighbors=33..  
 [CV 5/5; 1718/1980] END leaf\_size=37, n\_neighbors=35;; score=0.639 total time=0.0s  
 [CV 1/5; 1719/1980] START leaf\_size=37, n\_neighbors=36..  
 [CV 3/5; 1708/1980] END leaf\_size=37, n\_neighbors=25;; score=0.557 total time=0.0s  
 [CV 4/5; 1708/1980] START leaf\_size=37, n\_neighbors=25..  
 [CV 4/5; 1709/1980] END leaf\_size=37, n\_neighbors=26;; score=0.593 total time=0.0s  
 [CV 5/5; 1709/1980] START leaf\_size=37, n\_neighbors=26..  
 [CV 4/5; 1717/1980] END leaf\_size=37, n\_neighbors=34;; score=0.597 total time=0.0s  
 [CV 5/5; 1717/1980] START leaf\_size=37, n\_neighbors=34..  
 [CV 4/5; 1711/1980] END leaf\_size=37, n\_neighbors=28;; score=0.597 total time=0.0s  
 [CV 3/5; 1720/1980] END leaf\_size=37, n\_neighbors=37;; score=0.568 total time=0.0s  
 [CV 5/5; 1711/1980] START leaf\_size=37,  
 n\_neighbors=28...[CV 4/5; 1720/1980] START leaf\_size=37,  
 n\_neighbors=37..  
  
 [CV 2/5; 1713/1980] END leaf\_size=37, n\_neighbors=30;; score=0.607 total time=0.0s  
 [CV 3/5; 1713/1980] START leaf\_size=37, n\_neighbors=30..  
 [CV 5/5; 1721/1980] END leaf\_size=37, n\_neighbors=38;; score=0.634 total time=



0.0s  
 [CV 1/5; 1722/1980] START leaf\_size=37, n\_neighbors=39...  
 [CV 2/5; 1716/1980] END leaf\_size=37, n\_neighbors=33;; score=0.607 total time=  
 0.0s  
 [CV 3/5; 1716/1980] START leaf\_size=37, n\_neighbors=33...  
 [CV 1/5; 1719/1980] END leaf\_size=37, n\_neighbors=36;; score=0.644 total time=  
 0.0s  
 [CV 2/5; 1719/1980] START leaf\_size=37, n\_neighbors=36...  
 [CV 4/5; 1708/1980] END leaf\_size=37, n\_neighbors=25;; score=0.587 total time=  
 0.0s  
 [CV 5/5; 1708/1980] START leaf\_size=37, n\_neighbors=25...  
 [CV 3/5; 1714/1980] END leaf\_size=37, n\_neighbors=31;; score=0.570 total time=  
 0.0s  
 [CV 4/5; 1714/1980] START leaf\_size=37, n\_neighbors=31...  
 [CV 5/5; 1717/1980] END leaf\_size=37, n\_neighbors=34;; score=0.634 total time=  
 0.0s  
 [CV 5/5; 1711/1980] END leaf\_size=37, n\_neighbors=28;; score=0.641 total time=  
 0.0s  
 [CV 1/5; 1718/1980] START leaf\_size=37, n\_neighbors=35...  
 [CV 1/5; 1712/1980] START leaf\_size=37, n\_neighbors=29...  
 [CV 4/5; 1720/1980] END leaf\_size=37, n\_neighbors=37;; score=0.610 total time=  
 0.0s  
 [CV 5/5; 1720/1980] START leaf\_size=37, n\_neighbors=37...  
 [CV 3/5; 1713/1980] END leaf\_size=37, n\_neighbors=30;; score=0.579 total time=  
 0.0s  
 [CV 4/5; 1713/1980] START leaf\_size=37, n\_neighbors=30...  
 [CV 1/5; 1722/1980] END leaf\_size=37, n\_neighbors=39;; score=0.654 total time=  
 0.0s  
 [CV 2/5; 1722/1980] START leaf\_size=37, n\_neighbors=39...  
 [CV 3/5; 1716/1980] END leaf\_size=37, n\_neighbors=33;; score=0.570 total time=  
 0.0s  
 [CV 4/5; 1716/1980] START leaf\_size=37, n\_neighbors=33...  
 [CV 2/5; 1719/1980] END leaf\_size=37, n\_neighbors=36;; score=0.616 total time=  
 0.0s  
 [CV 3/5; 1719/1980] START leaf\_size=37, n\_neighbors=36...  
 [CV 5/5; 1708/1980] END leaf\_size=37, n\_neighbors=25;; score=0.647 total time=  
 0.0s  
 [CV 3/5; 1723/1980] START leaf\_size=37, n\_neighbors=40...  
 [CV 5/5; 1709/1980] END leaf\_size=37, n\_neighbors=26;; score=0.628 total time=  
 0.1s  
 [CV 1/5; 1710/1980] START leaf\_size=37, n\_neighbors=27...  
 [CV 1/5; 1712/1980] END leaf\_size=37, n\_neighbors=29;; score=0.646 total time=  
 0.0s  
 [CV 1/5; 1718/1980] END leaf\_size=37, n\_neighbors=35;; score=0.650 total time=  
 0.0s  
 [CV 2/5; 1718/1980] START leaf\_size=37, n\_neighbors=35...  
 [CV 5/5; 1720/1980] END leaf\_size=37, n\_neighbors=37;; score=0.628 total time=  
 0.0s

[CV 1/5; 1721/1980] START leaf\_size=37, n\_neighbors=38...  
 [CV 4/5; 1714/1980] END leaf\_size=37, n\_neighbors=31;; score=0.595 total time=0.0s  
 [CV 5/5; 1714/1980] START leaf\_size=37, n\_neighbors=31...  
 [CV 2/5; 1722/1980] END leaf\_size=37, n\_neighbors=39;; score=0.609 total time=0.0s  
 [CV 3/5; 1722/1980] START leaf\_size=37, n\_neighbors=39...  
 [CV 4/5; 1713/1980] END leaf\_size=37, n\_neighbors=30;; score=0.595 total time=0.0s  
 [CV 1/5; 1725/1980] START leaf\_size=37, n\_neighbors=42...  
 [CV 4/5; 1716/1980] END leaf\_size=37, n\_neighbors=33;; score=0.597 total time=0.0s  
 [CV 5/5; 1716/1980] START leaf\_size=37, n\_neighbors=33...  
 [CV 4/5; 1726/1980] START leaf\_size=37, n\_neighbors=43...  
 [CV 3/5; 1719/1980] END leaf\_size=37, n\_neighbors=36;; score=0.566 total time=0.0s  
 [CV 4/5; 1719/1980] START leaf\_size=37, n\_neighbors=36...  
 [CV 1/5; 1710/1980] END leaf\_size=37, n\_neighbors=27;; score=0.650 total time=0.0s  
 [CV 2/5; 1710/1980] START leaf\_size=37, n\_neighbors=27...  
 [CV 2/5; 1718/1980] END leaf\_size=37, n\_neighbors=35;; score=0.607 total time=0.0s  
 [CV 3/5; 1718/1980] START leaf\_size=37, n\_neighbors=35...  
 [CV 1/5; 1721/1980] END leaf\_size=37, n\_neighbors=38;; score=0.652 total time=0.0s  
 [CV 2/5; 1721/1980] START leaf\_size=37, n\_neighbors=38...  
 [CV 3/5; 1723/1980] END leaf\_size=37, n\_neighbors=40;; score=0.572 total time=0.0s  
 [CV 4/5; 1723/1980] START leaf\_size=37, n\_neighbors=40...  
 [CV 5/5; 1714/1980] END leaf\_size=37, n\_neighbors=31;; score=0.634 total time=0.0s  
 [CV 1/5; 1715/1980] START leaf\_size=37, n\_neighbors=32...  
 [CV 3/5; 1722/1980] END leaf\_size=37, n\_neighbors=39;; score=0.575 total time=0.0s  
 [CV 4/5; 1722/1980] START leaf\_size=37, n\_neighbors=39...  
 [CV 5/5; 1716/1980] END leaf\_size=37, n\_neighbors=33;; score=0.630 total time=0.0s  
 [CV 2/5; 1728/1980] START leaf\_size=37, n\_neighbors=45...  
 [CV 4/5; 1719/1980] END leaf\_size=37, n\_neighbors=36;; score=0.600 total time=0.0s  
 [CV 5/5; 1719/1980] START leaf\_size=37, n\_neighbors=36...  
 [CV 1/5; 1725/1980] END leaf\_size=37, n\_neighbors=42;; score=0.667 total time=0.0s  
 [CV 2/5; 1725/1980] START leaf\_size=37, n\_neighbors=42...  
 [CV 4/5; 1726/1980] END leaf\_size=37, n\_neighbors=43;; score=0.600 total time=0.0s  
 [CV 5/5; 1726/1980] START leaf\_size=37, n\_neighbors=43...  
 [CV 2/5; 1710/1980] END leaf\_size=37, n\_neighbors=27;; score=0.594 total time=

0.0s  
 [CV 3/5; 1710/1980] START leaf\_size=37, n\_neighbors=27...  
 [CV 3/5; 1718/1980] END leaf\_size=37, n\_neighbors=35;; score=0.572 total time=  
 0.0s  
 [CV 2/5; 1721/1980] END leaf\_size=37, n\_neighbors=38;; score=0.613 total time=  
 0.0s  
 [CV 3/5; 1721/1980] START leaf\_size=37, n\_neighbors=38...  
 [CV 5/5; 1729/1980] START leaf\_size=37, n\_neighbors=46...  
 [CV 4/5; 1723/1980] END leaf\_size=37, n\_neighbors=40;; score=0.595 total time=  
 0.0s  
 [CV 5/5; 1723/1980] START leaf\_size=37, n\_neighbors=40...  
 [CV 1/5; 1715/1980] END leaf\_size=37, n\_neighbors=32;; score=0.639 total time=  
 0.0s  
 [CV 2/5; 1715/1980] START leaf\_size=37, n\_neighbors=32...  
 [CV 4/5; 1722/1980] END leaf\_size=37, n\_neighbors=39;; score=0.602 total time=  
 0.0s  
 [CV 5/5; 1722/1980] START leaf\_size=37, n\_neighbors=39...  
 [CV 5/5; 1719/1980] END leaf\_size=37, n\_neighbors=36;; score=0.628 total time=  
 0.0s  
 [CV 2/5; 1728/1980] END leaf\_size=37, n\_neighbors=45;; score=0.611 total time=  
 0.0s[CV 1/5; 1720/1980] START leaf\_size=37,  
 n\_neighbors=37...  
  
 [CV 3/5; 1728/1980] START leaf\_size=37, n\_neighbors=45...  
 [CV 2/5; 1725/1980] END leaf\_size=37, n\_neighbors=42;; score=0.618 total time=  
 0.0s  
 [CV 3/5; 1725/1980] START leaf\_size=37, n\_neighbors=42...  
 [CV 3/5; 1710/1980] END leaf\_size=37, n\_neighbors=27;; score=0.568 total time=  
 0.0s  
 [CV 5/5; 1726/1980] END leaf\_size=37, n\_neighbors=43;; score=0.615 total time=  
 0.0s  
 [CV 1/5; 1727/1980] START leaf\_size=37, n\_neighbors=44...  
 [CV 3/5; 1731/1980] START leaf\_size=37, n\_neighbors=48...  
 [CV 3/5; 1721/1980] END leaf\_size=37, n\_neighbors=38;; score=0.566 total time=  
 0.0s  
 [CV 4/5; 1721/1980] START leaf\_size=37, n\_neighbors=38...  
 [CV 5/5; 1729/1980] END leaf\_size=37, n\_neighbors=46;; score=0.619 total time=  
 0.0s  
 [CV 1/5; 1730/1980] START leaf\_size=37, n\_neighbors=47...  
 [CV 5/5; 1722/1980] END leaf\_size=37, n\_neighbors=39;; score=0.636 total time=  
 0.0s  
 [CV 2/5; 1715/1980] END leaf\_size=37, n\_neighbors=32;; score=0.605 total time=  
 0.0s  
 [CV 1/5; 1723/1980] START leaf\_size=37, n\_neighbors=40...  
 [CV 1/5; 1733/1980] START leaf\_size=37, n\_neighbors=50...  
 [CV 1/5; 1720/1980] END leaf\_size=37, n\_neighbors=37;; score=0.657 total time=  
 0.0s  
 [CV 3/5; 1728/1980] END leaf\_size=37, n\_neighbors=45;; score=0.575 total time=

0.0s[CV 4/5; 1734/1980] START leaf\_size=37,  
 n\_neighbors=51...  
 [CV 5/5; 1723/1980] END leaf\_size=37, n\_neighbors=40;; score=0.617 total time=  
 0.0s  
 [CV 1/5; 1724/1980] START leaf\_size=37, n\_neighbors=41...  
  
 [CV 4/5; 1728/1980] START leaf\_size=37, n\_neighbors=45...  
 [CV 3/5; 1725/1980] END leaf\_size=37, n\_neighbors=42;; score=0.564 total time=  
 0.0s  
 [CV 4/5; 1725/1980] START leaf\_size=37, n\_neighbors=42...  
 [CV 3/5; 1731/1980] END leaf\_size=37, n\_neighbors=48;; score=0.562 total time=  
 0.0s  
 [CV 4/5; 1731/1980] START leaf\_size=37, n\_neighbors=48...  
 [CV 1/5; 1727/1980] END leaf\_size=37, n\_neighbors=44;; score=0.667 total time=  
 0.0s  
 [CV 2/5; 1727/1980] START leaf\_size=37, n\_neighbors=44...  
 [CV 4/5; 1721/1980] END leaf\_size=37, n\_neighbors=38;; score=0.602 total time=  
 0.0s  
 [CV 2/5; 1736/1980] START leaf\_size=37, n\_neighbors=53...  
 [CV 1/5; 1730/1980] END leaf\_size=37, n\_neighbors=47;; score=0.676 total time=  
 0.0s  
 [CV 2/5; 1730/1980] START leaf\_size=37, n\_neighbors=47...  
 [CV 1/5; 1723/1980] END leaf\_size=37, n\_neighbors=40;; score=0.661 total time=  
 0.0s  
 [CV 2/5; 1723/1980] START leaf\_size=37, n\_neighbors=40...  
 [CV 1/5; 1733/1980] END leaf\_size=37, n\_neighbors=50;; score=0.678 total time=  
 0.0s  
 [CV 2/5; 1733/1980] START leaf\_size=37, n\_neighbors=50...  
 [CV 4/5; 1734/1980] END leaf\_size=37, n\_neighbors=51;; score=0.602 total time=  
 0.0s  
 [CV 5/5; 1734/1980] START leaf\_size=37, n\_neighbors=51...  
 [CV 4/5; 1728/1980] END leaf\_size=37, n\_neighbors=45;; score=0.600 total time=  
 0.0s  
 [CV 5/5; 1728/1980] START leaf\_size=37, n\_neighbors=45...  
 [CV 1/5; 1724/1980] END leaf\_size=37, n\_neighbors=41;; score=0.665 total time=  
 0.0s  
 [CV 2/5; 1724/1980] START leaf\_size=37, n\_neighbors=41...  
 [CV 4/5; 1725/1980] END leaf\_size=37, n\_neighbors=42;; score=0.608 total time=  
 0.0s  
 [CV 5/5; 1725/1980] START leaf\_size=37, n\_neighbors=42...  
 [CV 4/5; 1731/1980] END leaf\_size=37, n\_neighbors=48;; score=0.589 total time=  
 0.0s  
 [CV 5/5; 1731/1980] START leaf\_size=37, n\_neighbors=48...  
 [CV 2/5; 1727/1980] END leaf\_size=37, n\_neighbors=44;; score=0.613 total time=  
 0.0s  
 [CV 3/5; 1727/1980] START leaf\_size=37, n\_neighbors=44...  
 [CV 2/5; 1730/1980] END leaf\_size=37, n\_neighbors=47;; score=0.611 total time=  
 0.0s

[CV 3/5; 1730/1980] START leaf\_size=37, n\_neighbors=47...  
 [CV 2/5; 1736/1980] END leaf\_size=37, n\_neighbors=53;; score=0.611 total time=0.0s  
 [CV 3/5; 1736/1980] START leaf\_size=37, n\_neighbors=53...  
 [CV 2/5; 1723/1980] END leaf\_size=37, n\_neighbors=40;; score=0.611 total time=0.0s  
 [CV 2/5; 1733/1980] END leaf\_size=37, n\_neighbors=50;; score=0.603 total time=0.0s  
 [CV 3/5; 1733/1980] START leaf\_size=37, n\_neighbors=50...  
 [CV 5/5; 1737/1980] START leaf\_size=37, n\_neighbors=54...  
 [CV 5/5; 1734/1980] END leaf\_size=37, n\_neighbors=51;; score=0.621 total time=0.0s  
 [CV 1/5; 1735/1980] START leaf\_size=37, n\_neighbors=52...  
 [CV 5/5; 1731/1980] END leaf\_size=37, n\_neighbors=48;; score=0.630 total time=0.0s  
 [CV 1/5; 1732/1980] START leaf\_size=37, n\_neighbors=49...  
 [CV 2/5; 1724/1980] END leaf\_size=37, n\_neighbors=41;; score=0.618 total time=0.0s  
 [CV 3/5; 1724/1980] START leaf\_size=37, n\_neighbors=41...  
 [CV 5/5; 1725/1980] END leaf\_size=37, n\_neighbors=42;; score=0.621 total time=0.0s  
 [CV 1/5; 1726/1980] START leaf\_size=37, n\_neighbors=43...  
 [CV 3/5; 1727/1980] END leaf\_size=37, n\_neighbors=44;; score=0.570 total time=0.0s  
 [CV 4/5; 1727/1980] START leaf\_size=37, n\_neighbors=44...  
 [CV 5/5; 1728/1980] END leaf\_size=37, n\_neighbors=45;; score=0.619 total time=0.0s  
 [CV 1/5; 1729/1980] START leaf\_size=37, n\_neighbors=46...  
 [CV 3/5; 1736/1980] END leaf\_size=37, n\_neighbors=53;; score=0.572 total time=0.0s  
 [CV 4/5; 1736/1980] START leaf\_size=37, n\_neighbors=53...  
 [CV 5/5; 1737/1980] END leaf\_size=37, n\_neighbors=54;; score=0.608 total time=0.0s  
 [CV 1/5; 1738/1980] START leaf\_size=37, n\_neighbors=55...  
 [CV 3/5; 1730/1980] END leaf\_size=37, n\_neighbors=47;; score=0.572 total time=0.0s  
 [CV 4/5; 1730/1980] START leaf\_size=37, n\_neighbors=47...  
 [CV 3/5; 1733/1980] END leaf\_size=37, n\_neighbors=50;; score=0.557 total time=0.0s  
 [CV 4/5; 1733/1980] START leaf\_size=37, n\_neighbors=50...  
 [CV 1/5; 1735/1980] END leaf\_size=37, n\_neighbors=52;; score=0.676 total time=0.0s  
 [CV 2/5; 1735/1980] START leaf\_size=37, n\_neighbors=52...  
 [CV 1/5; 1732/1980] END leaf\_size=37, n\_neighbors=49;; score=0.676 total time=0.0s  
 [CV 2/5; 1732/1980] START leaf\_size=37, n\_neighbors=49...  
 [CV 3/5; 1724/1980] END leaf\_size=37, n\_neighbors=41;; score=0.568 total time=0.0s

[CV 4/5; 1724/1980] START leaf\_size=37, n\_neighbors=41...  
 [CV 1/5; 1726/1980] END leaf\_size=37, n\_neighbors=43;; score=0.674 total time=0.0s  
 [CV 2/5; 1726/1980] START leaf\_size=37, n\_neighbors=43...  
 [CV 4/5; 1727/1980] END leaf\_size=37, n\_neighbors=44;; score=0.597 total time=0.0s  
 [CV 5/5; 1727/1980] START leaf\_size=37, n\_neighbors=44...  
 [CV 1/5; 1738/1980] END leaf\_size=37, n\_neighbors=55;; score=0.667 total time=0.0s  
 [CV 2/5; 1738/1980] START leaf\_size=37, n\_neighbors=55...  
 [CV 4/5; 1733/1980] END leaf\_size=37, n\_neighbors=50;; score=0.597 total time=0.0s  
 [CV 5/5; 1733/1980] START leaf\_size=37, n\_neighbors=50...  
 [CV 4/5; 1736/1980] END leaf\_size=37, n\_neighbors=53;; score=0.600 total time=0.0s  
 [CV 5/5; 1736/1980] START leaf\_size=37, n\_neighbors=53...  
 [CV 1/5; 1729/1980] END leaf\_size=37, n\_neighbors=46;; score=0.672 total time=0.0s  
 [CV 2/5; 1729/1980] START leaf\_size=37, n\_neighbors=46...  
 [CV 4/5; 1730/1980] END leaf\_size=37, n\_neighbors=47;; score=0.589 total time=0.0s  
 [CV 5/5; 1730/1980] START leaf\_size=37, n\_neighbors=47...  
 [CV 2/5; 1735/1980] END leaf\_size=37, n\_neighbors=52;; score=0.611 total time=0.0s  
 [CV 3/5; 1735/1980] START leaf\_size=37, n\_neighbors=52...  
 [CV 2/5; 1732/1980] END leaf\_size=37, n\_neighbors=49;; score=0.622 total time=0.0s  
 [CV 3/5; 1732/1980] START leaf\_size=37, n\_neighbors=49...  
 [CV 2/5; 1726/1980] END leaf\_size=37, n\_neighbors=43;; score=0.616 total time=0.0s  
 [CV 3/5; 1726/1980] START leaf\_size=37, n\_neighbors=43...  
 [CV 4/5; 1724/1980] END leaf\_size=37, n\_neighbors=41;; score=0.610 total time=0.0s  
 [CV 5/5; 1724/1980] START leaf\_size=37, n\_neighbors=41...  
 [CV 2/5; 1738/1980] END leaf\_size=37, n\_neighbors=55;; score=0.618 total time=0.0s  
 [CV 3/5; 1738/1980] START leaf\_size=37, n\_neighbors=55...  
 [CV 5/5; 1733/1980] END leaf\_size=37, n\_neighbors=50;; score=0.619 total time=0.0s  
 [CV 1/5; 1734/1980] START leaf\_size=37, n\_neighbors=51...  
 [CV 5/5; 1736/1980] END leaf\_size=37, n\_neighbors=53;; score=0.613 total time=0.0s  
 [CV 1/5; 1737/1980] START leaf\_size=37, n\_neighbors=54...  
 [CV 2/5; 1729/1980] END leaf\_size=37, n\_neighbors=46;; score=0.616 total time=0.0s  
 [CV 3/5; 1735/1980] END leaf\_size=37, n\_neighbors=52;; score=0.566 total time=0.0s  
 [CV 4/5; 1735/1980] START leaf\_size=37, n\_neighbors=52...  
 [CV 3/5; 1726/1980] END leaf\_size=37, n\_neighbors=43;; score=0.566 total time=

0.0s  
[CV 3/5; 1739/1980] START leaf\_size=37, n\_neighbors=56...  
  
[CV 3/5; 1729/1980] START leaf\_size=37, n\_neighbors=46...  
[CV 3/5; 1738/1980] END leaf\_size=37, n\_neighbors=55;; score=0.564 total time=0.0s  
[CV 4/5; 1738/1980] START leaf\_size=37, n\_neighbors=55...  
[CV 5/5; 1727/1980] END leaf\_size=37, n\_neighbors=44;; score=0.615 total time=0.1s  
[CV 1/5; 1728/1980] START leaf\_size=37, n\_neighbors=45...  
[CV 1/5; 1737/1980] END leaf\_size=37, n\_neighbors=54;; score=0.667 total time=0.0s  
[CV 2/5; 1737/1980] START leaf\_size=37, n\_neighbors=54...  
[CV 4/5; 1735/1980] END leaf\_size=37, n\_neighbors=52;; score=0.597 total time=0.0s  
[CV 5/5; 1735/1980] START leaf\_size=37, n\_neighbors=52...  
[CV 3/5; 1739/1980] END leaf\_size=37, n\_neighbors=56;; score=0.551 total time=0.0s  
[CV 4/5; 1739/1980] START leaf\_size=37, n\_neighbors=56...  
[CV 5/5; 1724/1980] END leaf\_size=37, n\_neighbors=41;; score=0.619 total time=0.1s  
[CV 1/5; 1734/1980] END leaf\_size=37, n\_neighbors=51;; score=0.680 total time=0.1s  
[CV 2/5; 1734/1980] START leaf\_size=37, n\_neighbors=51...  
[CV 1/5; 1741/1980] START leaf\_size=37, n\_neighbors=58...  
[CV 4/5; 1738/1980] END leaf\_size=37, n\_neighbors=55;; score=0.593 total time=0.0s  
[CV 5/5; 1738/1980] START leaf\_size=37, n\_neighbors=55...  
[CV 3/5; 1729/1980] END leaf\_size=37, n\_neighbors=46;; score=0.572 total time=0.0s  
[CV 4/5; 1729/1980] START leaf\_size=37, n\_neighbors=46...  
[CV 5/5; 1730/1980] END leaf\_size=37, n\_neighbors=47;; score=0.623 total time=0.1s  
[CV 1/5; 1731/1980] START leaf\_size=37, n\_neighbors=48...  
[CV 1/5; 1728/1980] END leaf\_size=37, n\_neighbors=45;; score=0.678 total time=0.0s  
[CV 3/5; 1732/1980] END leaf\_size=37, n\_neighbors=49;; score=0.568 total time=0.1s  
[CV 4/5; 1732/1980] START leaf\_size=37, n\_neighbors=49...  
[CV 4/5; 1742/1980] START leaf\_size=37, n\_neighbors=59...  
[CV 4/5; 1739/1980] END leaf\_size=37, n\_neighbors=56;; score=0.591 total time=0.0s  
[CV 5/5; 1739/1980] START leaf\_size=37, n\_neighbors=56...  
[CV 2/5; 1737/1980] END leaf\_size=37, n\_neighbors=54;; score=0.618 total time=0.0s  
[CV 3/5; 1737/1980] START leaf\_size=37, n\_neighbors=54...  
[CV 5/5; 1735/1980] END leaf\_size=37, n\_neighbors=52;; score=0.619 total time=0.0s

[CV 1/5; 1736/1980] START leaf\_size=37, n\_neighbors=53...  
 [CV 5/5; 1738/1980] END leaf\_size=37, n\_neighbors=55;; score=0.608 total time=0.0s  
 [CV 1/5; 1739/1980] START leaf\_size=37, n\_neighbors=56...  
 [CV 4/5; 1729/1980] END leaf\_size=37, n\_neighbors=46;; score=0.597 total time=0.0s  
 [CV 2/5; 1744/1980] START leaf\_size=37, n\_neighbors=61...  
 [CV 4/5; 1732/1980] END leaf\_size=37, n\_neighbors=49;; score=0.593 total time=0.0s  
 [CV 5/5; 1732/1980] START leaf\_size=37, n\_neighbors=49...  
 [CV 1/5; 1741/1980] END leaf\_size=37, n\_neighbors=58;; score=0.665 total time=0.0s  
 [CV 2/5; 1741/1980] START leaf\_size=37, n\_neighbors=58...  
 [CV 4/5; 1742/1980] END leaf\_size=37, n\_neighbors=59;; score=0.604 total time=0.0s  
 [CV 5/5; 1742/1980] START leaf\_size=37, n\_neighbors=59...  
 [CV 2/5; 1734/1980] END leaf\_size=37, n\_neighbors=51;; score=0.618 total time=0.1s  
 [CV 5/5; 1739/1980] END leaf\_size=37, n\_neighbors=56;; score=0.613 total time=0.0s  
 [CV 3/5; 1734/1980] START leaf\_size=37, n\_neighbors=51...  
 [CV 1/5; 1740/1980] START leaf\_size=37, n\_neighbors=57...  
 [CV 1/5; 1731/1980] END leaf\_size=37, n\_neighbors=48;; score=0.672 total time=0.0s  
 [CV 2/5; 1731/1980] START leaf\_size=37, n\_neighbors=48...  
 [CV 1/5; 1739/1980] END leaf\_size=37, n\_neighbors=56;; score=0.670 total time=0.0s  
 [CV 2/5; 1739/1980] START leaf\_size=37, n\_neighbors=56...  
 [CV 3/5; 1737/1980] END leaf\_size=37, n\_neighbors=54;; score=0.562 total time=0.0s  
 [CV 4/5; 1737/1980] START leaf\_size=37, n\_neighbors=54...  
 [CV 2/5; 1744/1980] END leaf\_size=37, n\_neighbors=61;; score=0.603 total time=0.0s  
 [CV 3/5; 1744/1980] START leaf\_size=37, n\_neighbors=61...  
 [CV 5/5; 1732/1980] END leaf\_size=37, n\_neighbors=49;; score=0.623 total time=0.0s  
 [CV 5/5; 1745/1980] START leaf\_size=37, n\_neighbors=62...  
 [CV 1/5; 1736/1980] END leaf\_size=37, n\_neighbors=53;; score=0.678 total time=0.0s  
 [CV 3/5; 1747/1980] START leaf\_size=37, n\_neighbors=64...  
 [CV 5/5; 1742/1980] END leaf\_size=37, n\_neighbors=59;; score=0.610 total time=0.0s  
 [CV 1/5; 1743/1980] START leaf\_size=37, n\_neighbors=60...  
 [CV 2/5; 1741/1980] END leaf\_size=37, n\_neighbors=58;; score=0.609 total time=0.0s  
 [CV 3/5; 1741/1980] START leaf\_size=37, n\_neighbors=58...  
 [CV 3/5; 1734/1980] END leaf\_size=37, n\_neighbors=51;; score=0.566 total time=0.0s



[CV 1/5; 1749/1980] START leaf\_size=37, n\_neighbors=66...  
 [CV 1/5; 1740/1980] END leaf\_size=37, n\_neighbors=57;; score=0.665 total time=0.0s  
 [CV 2/5; 1740/1980] START leaf\_size=37, n\_neighbors=57...  
 [CV 2/5; 1739/1980] END leaf\_size=37, n\_neighbors=56;; score=0.609 total time=0.0s  
 [CV 2/5; 1731/1980] END leaf\_size=37, n\_neighbors=48;; score=0.609 total time=0.0s  
 [CV 4/5; 1750/1980] START leaf\_size=37, n\_neighbors=67...  
 [CV 4/5; 1737/1980] END leaf\_size=37, n\_neighbors=54;; score=0.595 total time=0.0s  
 [CV 2/5; 1752/1980] START leaf\_size=37, n\_neighbors=69...  
 [CV 5/5; 1753/1980] START leaf\_size=37, n\_neighbors=70...  
 [CV 3/5; 1744/1980] END leaf\_size=37, n\_neighbors=61;; score=0.557 total time=0.0s  
 [CV 4/5; 1744/1980] START leaf\_size=37, n\_neighbors=61...  
 [CV 5/5; 1745/1980] END leaf\_size=37, n\_neighbors=62;; score=0.610 total time=0.0s  
 [CV 1/5; 1746/1980] START leaf\_size=37, n\_neighbors=63...  
 [CV 3/5; 1747/1980] END leaf\_size=37, n\_neighbors=64;; score=0.562 total time=0.0s  
 [CV 4/5; 1747/1980] START leaf\_size=37, n\_neighbors=64...  
 [CV 1/5; 1743/1980] END leaf\_size=37, n\_neighbors=60;; score=0.667 total time=0.0s  
 [CV 2/5; 1743/1980] START leaf\_size=37, n\_neighbors=60...  
 [CV 2/5; 1740/1980] END leaf\_size=37, n\_neighbors=57;; score=0.616 total time=0.0s  
 [CV 3/5; 1740/1980] START leaf\_size=37, n\_neighbors=57...  
 [CV 1/5; 1749/1980] END leaf\_size=37, n\_neighbors=66;; score=0.663 total time=0.0s  
 [CV 2/5; 1749/1980] START leaf\_size=37, n\_neighbors=66...  
 [CV 4/5; 1750/1980] END leaf\_size=37, n\_neighbors=67;; score=0.587 total time=0.0s  
 [CV 5/5; 1750/1980] START leaf\_size=37, n\_neighbors=67...  
 [CV 5/5; 1753/1980] END leaf\_size=37, n\_neighbors=70;; score=0.606 total time=0.0s  
 [CV 1/5; 1754/1980] START leaf\_size=37, n\_neighbors=71...  
 [CV 4/5; 1744/1980] END leaf\_size=37, n\_neighbors=61;; score=0.604 total time=0.0s  
 [CV 5/5; 1744/1980] START leaf\_size=37, n\_neighbors=61...  
 [CV 2/5; 1752/1980] END leaf\_size=37, n\_neighbors=69;; score=0.609 total time=0.0s  
 [CV 3/5; 1752/1980] START leaf\_size=37, n\_neighbors=69...  
 [CV 1/5; 1746/1980] END leaf\_size=37, n\_neighbors=63;; score=0.665 total time=0.0s  
 [CV 2/5; 1746/1980] START leaf\_size=37,  
 n\_neighbors=63...[CV 3/5; 1741/1980] END leaf\_size=37,  
 n\_neighbors=58;; score=0.549 total time= 0.1s

[CV 4/5; 1741/1980] START leaf\_size=37, n\_neighbors=58...  
 [CV 4/5; 1747/1980] END leaf\_size=37, n\_neighbors=64;; score=0.593 total time=0.0s  
 [CV 5/5; 1747/1980] START leaf\_size=37, n\_neighbors=64...  
 [CV 2/5; 1743/1980] END leaf\_size=37, n\_neighbors=60;; score=0.605 total time=0.0s  
 [CV 3/5; 1743/1980] START leaf\_size=37, n\_neighbors=60...  
 [CV 2/5; 1749/1980] END leaf\_size=37, n\_neighbors=66;; score=0.609 total time=0.0s  
 [CV 3/5; 1749/1980] START leaf\_size=37, n\_neighbors=66...  
 [CV 3/5; 1740/1980] END leaf\_size=37, n\_neighbors=57;; score=0.559 total time=0.0s  
 [CV 4/5; 1740/1980] START leaf\_size=37, n\_neighbors=57...  
 [CV 5/5; 1750/1980] END leaf\_size=37, n\_neighbors=67;; score=0.613 total time=0.0s  
 [CV 1/5; 1751/1980] START leaf\_size=37, n\_neighbors=68...  
 [CV 1/5; 1754/1980] END leaf\_size=37, n\_neighbors=71;; score=0.670 total time=0.0s  
 [CV 2/5; 1754/1980] START leaf\_size=37, n\_neighbors=71...  
 [CV 5/5; 1744/1980] END leaf\_size=37, n\_neighbors=61;; score=0.606 total time=0.0s  
 [CV 1/5; 1745/1980] START leaf\_size=37, n\_neighbors=62...  
 [CV 2/5; 1746/1980] END leaf\_size=37, n\_neighbors=63;; score=0.609 total time=0.0s  
 [CV 3/5; 1746/1980] START leaf\_size=37, n\_neighbors=63...  
 [CV 3/5; 1752/1980] END leaf\_size=37, n\_neighbors=69;; score=0.568 total time=0.0s  
 [CV 4/5; 1752/1980] START leaf\_size=37, n\_neighbors=69...  
 [CV 4/5; 1741/1980] END leaf\_size=37, n\_neighbors=58;; score=0.595 total time=0.0s  
 [CV 5/5; 1741/1980] START leaf\_size=37, n\_neighbors=58...  
 [CV 5/5; 1747/1980] END leaf\_size=37, n\_neighbors=64;; score=0.613 total time=0.0s  
 [CV 1/5; 1748/1980] START leaf\_size=37, n\_neighbors=65...  
 [CV 3/5; 1743/1980] END leaf\_size=37, n\_neighbors=60;; score=0.553 total time=0.0s  
 [CV 4/5; 1743/1980] START leaf\_size=37, n\_neighbors=60...  
 [CV 1/5; 1751/1980] END leaf\_size=37, n\_neighbors=68;; score=0.667 total time=0.0s  
 [CV 2/5; 1751/1980] START leaf\_size=37, n\_neighbors=68...  
 [CV 4/5; 1740/1980] END leaf\_size=37, n\_neighbors=57;; score=0.597 total time=0.0s  
 [CV 5/5; 1740/1980] START leaf\_size=37, n\_neighbors=57...  
 [CV 3/5; 1749/1980] END leaf\_size=37, n\_neighbors=66;; score=0.566 total time=0.0s  
 [CV 4/5; 1749/1980] START leaf\_size=37, n\_neighbors=66...  
 [CV 1/5; 1745/1980] END leaf\_size=37, n\_neighbors=62;; score=0.663 total time=

0.0s  
 [CV 2/5; 1745/1980] START leaf\_size=37, n\_neighbors=62...  
 [CV 3/5; 1746/1980] END leaf\_size=37, n\_neighbors=63;; score=0.562 total time=  
 0.0s  
 [CV 4/5; 1746/1980] START leaf\_size=37, n\_neighbors=63...  
 [CV 2/5; 1754/1980] END leaf\_size=37, n\_neighbors=71;; score=0.616 total time=  
 0.0s  
 [CV 3/5; 1754/1980] START leaf\_size=37, n\_neighbors=71...  
 [CV 4/5; 1752/1980] END leaf\_size=37, n\_neighbors=69;; score=0.582 total time=  
 0.0s  
 [CV 5/5; 1752/1980] START leaf\_size=37, n\_neighbors=69...  
 [CV 5/5; 1741/1980] END leaf\_size=37, n\_neighbors=58;; score=0.610 total time=  
 0.0s  
 [CV 1/5; 1742/1980] START leaf\_size=37, n\_neighbors=59...  
 [CV 1/5; 1748/1980] END leaf\_size=37, n\_neighbors=65;; score=0.663 total time=  
 0.0s  
 [CV 2/5; 1748/1980] START leaf\_size=37, n\_neighbors=65...  
 [CV 4/5; 1743/1980] END leaf\_size=37, n\_neighbors=60;; score=0.602 total time=  
 0.0s  
 [CV 5/5; 1743/1980] START leaf\_size=37, n\_neighbors=60...  
 [CV 2/5; 1751/1980] END leaf\_size=37, n\_neighbors=68;; score=0.609 total time=  
 0.0s  
 [CV 3/5; 1751/1980] START leaf\_size=37, n\_neighbors=68...  
 [CV 5/5; 1740/1980] END leaf\_size=37, n\_neighbors=57;; score=0.610 total time=  
 0.0s  
 [CV 4/5; 1749/1980] END leaf\_size=37, n\_neighbors=66;; score=0.574 total time=  
 0.0s  
 [CV 5/5; 1749/1980] START leaf\_size=37, n\_neighbors=66...  
 [CV 3/5; 1755/1980] START leaf\_size=37, n\_neighbors=72...  
 [CV 2/5; 1745/1980] END leaf\_size=37, n\_neighbors=62;; score=0.603 total time=  
 0.0s  
 [CV 3/5; 1745/1980] START leaf\_size=37, n\_neighbors=62...  
 [CV 4/5; 1746/1980] END leaf\_size=37, n\_neighbors=63;; score=0.604 total time=  
 0.0s  
 [CV 5/5; 1746/1980] START leaf\_size=37, n\_neighbors=63...  
 [CV 3/5; 1754/1980] END leaf\_size=37, n\_neighbors=71;; score=0.562 total time=  
 0.0s  
 [CV 4/5; 1754/1980] START leaf\_size=37, n\_neighbors=71...  
 [CV 5/5; 1752/1980] END leaf\_size=37, n\_neighbors=69;; score=0.621 total time=  
 0.0s  
 [CV 1/5; 1753/1980] START leaf\_size=37, n\_neighbors=70...  
 [CV 1/5; 1742/1980] END leaf\_size=37, n\_neighbors=59;; score=0.670 total time=  
 0.0s  
 [CV 2/5; 1742/1980] START leaf\_size=37, n\_neighbors=59...  
 [CV 2/5; 1748/1980] END leaf\_size=37, n\_neighbors=65;; score=0.616 total time=  
 0.0s  
 [CV 3/5; 1748/1980] START leaf\_size=37, n\_neighbors=65...  
 [CV 5/5; 1743/1980] END leaf\_size=37, n\_neighbors=60;; score=0.604 total time=

0.0s  
[CV 1/5; 1744/1980] START leaf\_size=37, n\_neighbors=61...  
[CV 3/5; 1751/1980] END leaf\_size=37, n\_neighbors=68;; score=0.566 total time=0.0s  
[CV 4/5; 1751/1980] START leaf\_size=37, n\_neighbors=68...  
[CV 5/5; 1749/1980] END leaf\_size=37, n\_neighbors=66;; score=0.613 total time=0.0s  
[CV 1/5; 1750/1980] START leaf\_size=37, n\_neighbors=67...  
[CV 3/5; 1755/1980] END leaf\_size=37, n\_neighbors=72;; score=0.562 total time=0.0s  
[CV 4/5; 1755/1980] START leaf\_size=37, n\_neighbors=72...  
[CV 3/5; 1745/1980] END leaf\_size=37, n\_neighbors=62;; score=0.555 total time=0.0s  
[CV 4/5; 1745/1980] START leaf\_size=37, n\_neighbors=62...  
[CV 5/5; 1746/1980] END leaf\_size=37, n\_neighbors=63;; score=0.615 total time=0.0s  
[CV 1/5; 1747/1980] START leaf\_size=37, n\_neighbors=64...  
[CV 4/5; 1754/1980] END leaf\_size=37, n\_neighbors=71;; score=0.587 total time=0.0s  
[CV 5/5; 1754/1980] START leaf\_size=37, n\_neighbors=71...  
[CV 1/5; 1753/1980] END leaf\_size=37, n\_neighbors=70;; score=0.663 total time=0.0s  
[CV 2/5; 1753/1980] START leaf\_size=37, n\_neighbors=70...  
[CV 3/5; 1748/1980] END leaf\_size=37, n\_neighbors=65;; score=0.566 total time=0.0s  
[CV 4/5; 1748/1980] START leaf\_size=37, n\_neighbors=65...  
[CV 1/5; 1744/1980] END leaf\_size=37, n\_neighbors=61;; score=0.665 total time=0.0s  
[CV 4/5; 1751/1980] END leaf\_size=37, n\_neighbors=68;; score=0.576 total time=0.0s  
[CV 5/5; 1751/1980] START leaf\_size=37, n\_neighbors=68...  
[CV 2/5; 1742/1980] END leaf\_size=37, n\_neighbors=59;; score=0.609 total time=0.0s  
[CV 3/5; 1742/1980] START leaf\_size=37, n\_neighbors=59...  
[CV 1/5; 1750/1980] END leaf\_size=37, n\_neighbors=67;; score=0.663 total time=0.0s  
[CV 2/5; 1750/1980] START leaf\_size=37, n\_neighbors=67...  
[CV 4/5; 1755/1980] END leaf\_size=37, n\_neighbors=72;; score=0.593 total time=0.0s  
[CV 5/5; 1755/1980] START leaf\_size=37, n\_neighbors=72...  
[CV 4/5; 1745/1980] END leaf\_size=37, n\_neighbors=62;; score=0.600 total time=0.0s  
[CV 4/5; 1758/1980] START leaf\_size=37, n\_neighbors=75...  
[CV 1/5; 1747/1980] END leaf\_size=37, n\_neighbors=64;; score=0.663 total time=0.0s  
[CV 2/5; 1747/1980] START leaf\_size=37, n\_neighbors=64...  
[CV 1/5; 1757/1980] START leaf\_size=37, n\_neighbors=74...  
[CV 5/5; 1754/1980] END leaf\_size=37, n\_neighbors=71;; score=0.613 total time=

0.0s  
 [CV 1/5; 1755/1980] START leaf\_size=37, n\_neighbors=72...  
 [CV 4/5; 1748/1980] END leaf\_size=37, n\_neighbors=65;; score=0.591 total time=  
 0.0s  
 [CV 5/5; 1748/1980] START leaf\_size=37, n\_neighbors=65...  
 [CV 5/5; 1751/1980] END leaf\_size=37, n\_neighbors=68;; score=0.615 total time=  
 0.0s  
 [CV 1/5; 1752/1980] START leaf\_size=37, n\_neighbors=69...  
 [CV 2/5; 1753/1980] END leaf\_size=37, n\_neighbors=70;; score=0.607 total time=  
 0.0s  
 [CV 3/5; 1753/1980] START leaf\_size=37, n\_neighbors=70...  
 [CV 2/5; 1750/1980] END leaf\_size=37, n\_neighbors=67;; score=0.611 total time=  
 0.0s  
 [CV 3/5; 1750/1980] START leaf\_size=37, n\_neighbors=67...  
 [CV 3/5; 1742/1980] END leaf\_size=37, n\_neighbors=59;; score=0.553 total time=  
 0.0s  
 [CV 2/5; 1760/1980] START leaf\_size=37, n\_neighbors=77...  
 [CV 5/5; 1755/1980] END leaf\_size=37, n\_neighbors=72;; score=0.613 total time=  
 0.0s  
 [CV 1/5; 1756/1980] START leaf\_size=37, n\_neighbors=73...  
 [CV 2/5; 1747/1980] END leaf\_size=37, n\_neighbors=64;; score=0.609 total time=  
 0.0s  
 [CV 4/5; 1758/1980] END leaf\_size=37, n\_neighbors=75;; score=0.591 total time=  
 0.0s  
 [CV 5/5; 1758/1980] START leaf\_size=37, n\_neighbors=75...  
 [CV 5/5; 1761/1980] START leaf\_size=37, n\_neighbors=78...  
 [CV 1/5; 1757/1980] END leaf\_size=37, n\_neighbors=74;; score=0.661 total time=  
 0.0s  
 [CV 2/5; 1757/1980] START leaf\_size=37, n\_neighbors=74...  
 [CV 1/5; 1755/1980] END leaf\_size=37, n\_neighbors=72;; score=0.663 total time=  
 0.0s  
 [CV 2/5; 1755/1980] START leaf\_size=37, n\_neighbors=72...  
 [CV 1/5; 1752/1980] END leaf\_size=37, n\_neighbors=69;; score=0.663 total time=  
 0.0s  
 [CV 5/5; 1748/1980] END leaf\_size=37, n\_neighbors=65;; score=0.621 total time=  
 0.0s  
 [CV 3/5; 1763/1980] START leaf\_size=37, n\_neighbors=80...  
 [CV 1/5; 1765/1980] START leaf\_size=37, n\_neighbors=82...  
 [CV 3/5; 1753/1980] END leaf\_size=37, n\_neighbors=70;; score=0.559 total time=  
 0.0s  
 [CV 4/5; 1753/1980] START leaf\_size=37, n\_neighbors=70...  
 [CV 3/5; 1750/1980] END leaf\_size=37, n\_neighbors=67;; score=0.564 total time=  
 0.0s  
 [CV 1/5; 1756/1980] END leaf\_size=37, n\_neighbors=73;; score=0.663 total time=  
 0.0s  
 [CV 2/5; 1756/1980] START leaf\_size=37, n\_neighbors=73...  
 [CV 5/5; 1761/1980] END leaf\_size=37, n\_neighbors=78;; score=0.628 total time=  
 0.0s

[CV 1/5; 1762/1980] START leaf\_size=37, n\_neighbors=79...  
 [CV 4/5; 1766/1980] START leaf\_size=37, n\_neighbors=83...  
 [CV 5/5; 1758/1980] END leaf\_size=37, n\_neighbors=75;; score=0.632 total time=0.0s  
 [CV 1/5; 1759/1980] START leaf\_size=37, n\_neighbors=76...  
 [CV 2/5; 1757/1980] END leaf\_size=37, n\_neighbors=74;; score=0.607 total time=0.0s  
 [CV 3/5; 1757/1980] START leaf\_size=37, n\_neighbors=74...  
 [CV 2/5; 1760/1980] END leaf\_size=37, n\_neighbors=77;; score=0.605 total time=0.0s  
 [CV 3/5; 1760/1980] START leaf\_size=37, n\_neighbors=77...  
 [CV 2/5; 1755/1980] END leaf\_size=37, n\_neighbors=72;; score=0.607 total time=0.0s  
 [CV 2/5; 1768/1980] START leaf\_size=37, n\_neighbors=85...  
 [CV 3/5; 1763/1980] END leaf\_size=37, n\_neighbors=80;; score=0.564 total time=0.0s  
 [CV 4/5; 1763/1980] START leaf\_size=37, n\_neighbors=80...  
 [CV 1/5; 1765/1980] END leaf\_size=37, n\_neighbors=82;; score=0.659 total time=0.0s  
 [CV 2/5; 1765/1980] START leaf\_size=37, n\_neighbors=82...  
 [CV 1/5; 1762/1980] END leaf\_size=37, n\_neighbors=79;; score=0.659 total time=0.0s  
 [CV 2/5; 1762/1980] START leaf\_size=37, n\_neighbors=79...  
 [CV 2/5; 1756/1980] END leaf\_size=37, n\_neighbors=73;; score=0.605 total time=0.0s  
 [CV 3/5; 1756/1980] START leaf\_size=37, n\_neighbors=73...  
 [CV 1/5; 1759/1980] END leaf\_size=37, n\_neighbors=76;; score=0.667 total time=0.0s  
 [CV 2/5; 1759/1980] START leaf\_size=37, n\_neighbors=76...  
 [CV 3/5; 1757/1980] END leaf\_size=37, n\_neighbors=74;; score=0.557 total time=0.0s  
 [CV 4/5; 1757/1980] START leaf\_size=37, n\_neighbors=74...  
 [CV 4/5; 1766/1980] END leaf\_size=37, n\_neighbors=83;; score=0.584 total time=0.0s  
 [CV 5/5; 1766/1980] START leaf\_size=37, n\_neighbors=83...  
 [CV 4/5; 1753/1980] END leaf\_size=37, n\_neighbors=70;; score=0.589 total time=0.0s  
 [CV 3/5; 1760/1980] END leaf\_size=37, n\_neighbors=77;; score=0.562 total time=0.0s  
 [CV 2/5; 1768/1980] END leaf\_size=37, n\_neighbors=85;; score=0.600 total time=0.0s  
 [CV 4/5; 1760/1980] START leaf\_size=37, n\_neighbors=77...  
 [CV 3/5; 1768/1980] START leaf\_size=37, n\_neighbors=85...  
 [CV 5/5; 1769/1980] START leaf\_size=37, n\_neighbors=86...  
 [CV 4/5; 1763/1980] END leaf\_size=37, n\_neighbors=80;; score=0.584 total time=0.0s  
 [CV 5/5; 1763/1980] START leaf\_size=37, n\_neighbors=80...  
 [CV 2/5; 1765/1980] END leaf\_size=37, n\_neighbors=82;; score=0.600 total time=

0.0s  
[CV 3/5; 1765/1980] START leaf\_size=37, n\_neighbors=82...  
[CV 2/5; 1762/1980] END leaf\_size=37, n\_neighbors=79;; score=0.598 total time=0.0s  
[CV 3/5; 1762/1980] START leaf\_size=37, n\_neighbors=79...  
[CV 3/5; 1756/1980] END leaf\_size=37, n\_neighbors=73;; score=0.566 total time=0.0s  
[CV 4/5; 1756/1980] START leaf\_size=37, n\_neighbors=73...  
[CV 5/5; 1766/1980] END leaf\_size=37, n\_neighbors=83;; score=0.619 total time=0.0s  
[CV 1/5; 1767/1980] START leaf\_size=37, n\_neighbors=84...  
[CV 2/5; 1759/1980] END leaf\_size=37, n\_neighbors=76;; score=0.603 total time=0.0s  
[CV 3/5; 1759/1980] START leaf\_size=37, n\_neighbors=76...  
[CV 4/5; 1757/1980] END leaf\_size=37, n\_neighbors=74;; score=0.591 total time=0.0s  
[CV 5/5; 1757/1980] START leaf\_size=37, n\_neighbors=74...  
[CV 3/5; 1768/1980] END leaf\_size=37, n\_neighbors=85;; score=0.557 total time=0.0s  
[CV 4/5; 1768/1980] START leaf\_size=37, n\_neighbors=85...  
[CV 4/5; 1760/1980] END leaf\_size=37, n\_neighbors=77;; score=0.580 total time=0.0s  
[CV 5/5; 1760/1980] START leaf\_size=37, n\_neighbors=77...  
[CV 5/5; 1763/1980] END leaf\_size=37, n\_neighbors=80;; score=0.628 total time=0.0s  
[CV 1/5; 1764/1980] START leaf\_size=37, n\_neighbors=81...  
[CV 5/5; 1769/1980] END leaf\_size=37, n\_neighbors=86;; score=0.623 total time=0.0s  
[CV 1/5; 1770/1980] START leaf\_size=37, n\_neighbors=87...  
[CV 3/5; 1765/1980] END leaf\_size=37, n\_neighbors=82;; score=0.566 total time=0.0s  
[CV 4/5; 1765/1980] START leaf\_size=37, n\_neighbors=82...  
[CV 3/5; 1762/1980] END leaf\_size=37, n\_neighbors=79;; score=0.557 total time=0.0s  
[CV 4/5; 1762/1980] START leaf\_size=37, n\_neighbors=79...  
[CV 4/5; 1756/1980] END leaf\_size=37, n\_neighbors=73;; score=0.591 total time=0.0s  
[CV 5/5; 1756/1980] START leaf\_size=37, n\_neighbors=73...  
[CV 3/5; 1759/1980] END leaf\_size=37, n\_neighbors=76;; score=0.557 total time=0.0s  
[CV 4/5; 1759/1980] START leaf\_size=37, n\_neighbors=76...  
[CV 5/5; 1757/1980] END leaf\_size=37, n\_neighbors=74;; score=0.623 total time=0.0s  
[CV 1/5; 1758/1980] START leaf\_size=37, n\_neighbors=75...  
[CV 1/5; 1767/1980] END leaf\_size=37, n\_neighbors=84;; score=0.654 total time=0.0s  
[CV 2/5; 1767/1980] START leaf\_size=37, n\_neighbors=84...  
[CV 4/5; 1768/1980] END leaf\_size=37, n\_neighbors=85;; score=0.576 total time=

0.0s  
 [CV 5/5; 1768/1980] START leaf\_size=37, n\_neighbors=85...  
 [CV 1/5; 1764/1980] END leaf\_size=37, n\_neighbors=81;; score=0.659 total time=  
 0.0s  
 [CV 2/5; 1764/1980] START leaf\_size=37, n\_neighbors=81...  
 [CV 5/5; 1760/1980] END leaf\_size=37, n\_neighbors=77;; score=0.617 total time=  
 0.0s  
 [CV 1/5; 1761/1980] START leaf\_size=37, n\_neighbors=78...  
 [CV 1/5; 1770/1980] END leaf\_size=37, n\_neighbors=87;; score=0.650 total time=  
 0.0s  
 [CV 4/5; 1765/1980] END leaf\_size=37, n\_neighbors=82;; score=0.587 total time=  
 0.0s  
 [CV 2/5; 1770/1980] START leaf\_size=37, n\_neighbors=87...  
 [CV 5/5; 1765/1980] START leaf\_size=37, n\_neighbors=82...  
 [CV 4/5; 1762/1980] END leaf\_size=37, n\_neighbors=79;; score=0.584 total time=  
 0.0s  
 [CV 5/5; 1762/1980] START leaf\_size=37, n\_neighbors=79...  
 [CV 5/5; 1756/1980] END leaf\_size=37, n\_neighbors=73;; score=0.628 total time=  
 0.0s  
 [CV 4/5; 1759/1980] END leaf\_size=37, n\_neighbors=76;; score=0.578 total time=  
 0.0s  
 [CV 5/5; 1759/1980] START leaf\_size=37, n\_neighbors=76...  
 [CV 3/5; 1771/1980] START leaf\_size=37, n\_neighbors=88...  
 [CV 1/5; 1758/1980] END leaf\_size=37, n\_neighbors=75;; score=0.667 total time=  
 0.0s  
 [CV 2/5; 1758/1980] START leaf\_size=37, n\_neighbors=75...  
 [CV 2/5; 1767/1980] END leaf\_size=37, n\_neighbors=84;; score=0.603 total time=  
 0.0s  
 [CV 3/5; 1767/1980] START leaf\_size=37, n\_neighbors=84...  
 [CV 2/5; 1764/1980] END leaf\_size=37, n\_neighbors=81;; score=0.596 total time=  
 0.0s  
 [CV 3/5; 1764/1980] START leaf\_size=37, n\_neighbors=81...  
 [CV 5/5; 1768/1980] END leaf\_size=37, n\_neighbors=85;; score=0.626 total time=  
 0.0s  
 [CV 1/5; 1769/1980] START leaf\_size=37, n\_neighbors=86...  
 [CV 1/5; 1761/1980] END leaf\_size=37, n\_neighbors=78;; score=0.659 total time=  
 0.0s  
 [CV 2/5; 1761/1980] START leaf\_size=37, n\_neighbors=78...  
 [CV 5/5; 1762/1980] END leaf\_size=37, n\_neighbors=79;; score=0.619 total time=  
 0.0s  
 [CV 1/5; 1763/1980] START leaf\_size=37, n\_neighbors=80...  
 [CV 5/5; 1765/1980] END leaf\_size=37, n\_neighbors=82;; score=0.630 total time=  
 0.0s  
 [CV 1/5; 1766/1980] START leaf\_size=37, n\_neighbors=83...  
 [CV 5/5; 1759/1980] END leaf\_size=37, n\_neighbors=76;; score=0.621 total time=  
 0.0s  
 [CV 1/5; 1760/1980] START leaf\_size=37, n\_neighbors=77...  
 [CV 3/5; 1771/1980] END leaf\_size=37, n\_neighbors=88;; score=0.562 total time=



0.0s  
 [CV 4/5; 1771/1980] START leaf\_size=37, n\_neighbors=88...  
 [CV 2/5; 1770/1980] END leaf\_size=37, n\_neighbors=87;; score=0.603 total time=  
 0.0s  
 [CV 3/5; 1770/1980] START leaf\_size=37, n\_neighbors=87...  
 [CV 2/5; 1758/1980] END leaf\_size=37, n\_neighbors=75;; score=0.603 total time=  
 0.0s  
 [CV 3/5; 1758/1980] START leaf\_size=37, n\_neighbors=75...  
 [CV 3/5; 1764/1980] END leaf\_size=37, n\_neighbors=81;; score=0.562 total time=  
 0.0s  
 [CV 4/5; 1764/1980] START leaf\_size=37, n\_neighbors=81...  
 [CV 3/5; 1767/1980] END leaf\_size=37, n\_neighbors=84;; score=0.555 total time=  
 0.0s  
 [CV 4/5; 1767/1980] START leaf\_size=37, n\_neighbors=84...  
 [CV 2/5; 1761/1980] END leaf\_size=37, n\_neighbors=78;; score=0.603 total time=  
 0.0s  
 [CV 3/5; 1761/1980] START leaf\_size=37, n\_neighbors=78...  
 [CV 1/5; 1769/1980] END leaf\_size=37, n\_neighbors=86;; score=0.648 total time=  
 0.0s  
 [CV 2/5; 1769/1980] START leaf\_size=37, n\_neighbors=86...  
 [CV 1/5; 1763/1980] END leaf\_size=37, n\_neighbors=80;; score=0.659 total time=  
 0.0s  
 [CV 2/5; 1763/1980] START leaf\_size=37, n\_neighbors=80...  
 [CV 1/5; 1760/1980] END leaf\_size=37, n\_neighbors=77;; score=0.667 total time=  
 0.0s  
 [CV 1/5; 1766/1980] END leaf\_size=37, n\_neighbors=83;; score=0.650 total time=  
 0.0s  
 [CV 2/5; 1766/1980] START leaf\_size=37, n\_neighbors=83...  
 [CV 4/5; 1771/1980] END leaf\_size=37, n\_neighbors=88;; score=0.578 total time=  
 0.0s  
 [CV 5/5; 1771/1980] START leaf\_size=37, n\_neighbors=88...  
 [CV 1/5; 1773/1980] START leaf\_size=37, n\_neighbors=90...  
 [CV 3/5; 1758/1980] END leaf\_size=37, n\_neighbors=75;; score=0.555 total time=  
 0.0s  
 [CV 3/5; 1770/1980] END leaf\_size=37, n\_neighbors=87;; score=0.562 total time=  
 0.0s  
 [CV 4/5; 1770/1980] START leaf\_size=37, n\_neighbors=87...  
 [CV 4/5; 1774/1980] START leaf\_size=37, n\_neighbors=91...  
 [CV 4/5; 1764/1980] END leaf\_size=37, n\_neighbors=81;; score=0.587 total time=  
 0.0s  
 [CV 5/5; 1764/1980] START leaf\_size=37, n\_neighbors=81...  
 [CV 4/5; 1767/1980] END leaf\_size=37, n\_neighbors=84;; score=0.582 total time=  
 0.0s  
 [CV 5/5; 1767/1980] START leaf\_size=37, n\_neighbors=84...  
 [CV 2/5; 1763/1980] END leaf\_size=37, n\_neighbors=80;; score=0.594 total time=  
 0.0s  
 [CV 2/5; 1776/1980] START leaf\_size=37, n\_neighbors=93...  
 [CV 2/5; 1769/1980] END leaf\_size=37, n\_neighbors=86;; score=0.598 total time=

0.0s  
[CV 3/5; 1769/1980] START leaf\_size=37, n\_neighbors=86...  
[CV 2/5; 1766/1980] END leaf\_size=37, n\_neighbors=83;; score=0.596 total time=0.0s  
[CV 3/5; 1766/1980] START leaf\_size=37, n\_neighbors=83...  
[CV 5/5; 1771/1980] END leaf\_size=37, n\_neighbors=88;; score=0.617 total time=0.0s  
[CV 1/5; 1772/1980] START leaf\_size=37, n\_neighbors=89...  
[CV 5/5; 1764/1980] END leaf\_size=37, n\_neighbors=81;; score=0.626 total time=0.0s  
[CV 3/5; 1761/1980] END leaf\_size=37, n\_neighbors=78;; score=0.555 total time=0.1s  
[CV 4/5; 1761/1980] START leaf\_size=37, n\_neighbors=78...  
[CV 1/5; 1773/1980] END leaf\_size=37, n\_neighbors=90;; score=0.650 total time=0.0s  
[CV 4/5; 1774/1980] END leaf\_size=37, n\_neighbors=91;; score=0.591 total time=0.0s  
[CV 2/5; 1773/1980] START leaf\_size=37, n\_neighbors=90...  
[CV 5/5; 1774/1980] START leaf\_size=37, n\_neighbors=91...  
[CV 5/5; 1777/1980] START leaf\_size=37, n\_neighbors=94...  
[CV 4/5; 1770/1980] END leaf\_size=37, n\_neighbors=87;; score=0.584 total time=0.0s  
[CV 5/5; 1770/1980] START leaf\_size=37, n\_neighbors=87...  
[CV 5/5; 1767/1980] END leaf\_size=37, n\_neighbors=84;; score=0.626 total time=0.0s  
[CV 1/5; 1768/1980] START leaf\_size=37, n\_neighbors=85...  
[CV 3/5; 1766/1980] END leaf\_size=37, n\_neighbors=83;; score=0.564 total time=0.0s  
[CV 3/5; 1779/1980] START leaf\_size=37, n\_neighbors=96...  
[CV 2/5; 1776/1980] END leaf\_size=37, n\_neighbors=93;; score=0.603 total time=0.0s  
[CV 3/5; 1776/1980] START leaf\_size=37, n\_neighbors=93...  
[CV 1/5; 1772/1980] END leaf\_size=37, n\_neighbors=89;; score=0.646 total time=0.0s  
[CV 2/5; 1772/1980] START leaf\_size=37, n\_neighbors=89...  
[CV 4/5; 1761/1980] END leaf\_size=37, n\_neighbors=78;; score=0.571 total time=0.0s  
[CV 5/5; 1777/1980] END leaf\_size=37, n\_neighbors=94;; score=0.608 total time=0.0s  
[CV 3/5; 1769/1980] END leaf\_size=37, n\_neighbors=86;; score=0.559 total time=0.0s  
[CV 1/5; 1778/1980] START leaf\_size=37, n\_neighbors=95...  
[CV 1/5; 1781/1980] START leaf\_size=37, n\_neighbors=98...  
[CV 4/5; 1769/1980] START leaf\_size=37, n\_neighbors=86...  
[CV 5/5; 1774/1980] END leaf\_size=37, n\_neighbors=91;; score=0.623 total time=0.0s  
[CV 1/5; 1775/1980] START leaf\_size=37, n\_neighbors=92...  
[CV 2/5; 1773/1980] END leaf\_size=37, n\_neighbors=90;; score=0.600 total time=

0.0s  
 [CV 3/5; 1773/1980] START leaf\_size=37, n\_neighbors=90...  
 [CV 5/5; 1770/1980] END leaf\_size=37, n\_neighbors=87;; score=0.619 total time=  
 0.0s  
 [CV 1/5; 1771/1980] START leaf\_size=37, n\_neighbors=88...  
 [CV 1/5; 1768/1980] END leaf\_size=37, n\_neighbors=85;; score=0.650 total time=  
 0.0s  
 [CV 4/5; 1782/1980] START leaf\_size=37, n\_neighbors=99...  
 [CV 3/5; 1779/1980] END leaf\_size=37, n\_neighbors=96;; score=0.564 total time=  
 0.0s  
 [CV 4/5; 1779/1980] START leaf\_size=37, n\_neighbors=96...  
 [CV 2/5; 1772/1980] END leaf\_size=37, n\_neighbors=89;; score=0.600 total time=  
 0.0s  
 [CV 3/5; 1772/1980] START leaf\_size=37, n\_neighbors=89...  
 [CV 1/5; 1778/1980] END leaf\_size=37, n\_neighbors=95;; score=0.644 total time=  
 0.0s  
 [CV 2/5; 1778/1980] START leaf\_size=37, n\_neighbors=95...  
 [CV 1/5; 1775/1980] END leaf\_size=37, n\_neighbors=92;; score=0.646 total time=  
 0.0s  
 [CV 2/5; 1775/1980] START leaf\_size=37, n\_neighbors=92...  
 [CV 1/5; 1781/1980] END leaf\_size=37, n\_neighbors=98;; score=0.635 total time=  
 0.0s  
 [CV 2/5; 1781/1980] START leaf\_size=37, n\_neighbors=98...  
 [CV 3/5; 1776/1980] END leaf\_size=37, n\_neighbors=93;; score=0.564 total time=  
 0.0s  
 [CV 4/5; 1776/1980] START leaf\_size=37, n\_neighbors=93...  
 [CV 3/5; 1773/1980] END leaf\_size=37, n\_neighbors=90;; score=0.564 total time=  
 0.0s  
 [CV 4/5; 1773/1980] START leaf\_size=37, n\_neighbors=90...  
 [CV 4/5; 1769/1980] END leaf\_size=37, n\_neighbors=86;; score=0.580 total time=  
 0.0s  
 [CV 2/5; 1784/1980] START leaf\_size=38, n\_neighbors=2...  
 [CV 4/5; 1782/1980] END leaf\_size=37, n\_neighbors=99;; score=0.589 total time=  
 0.0s  
 [CV 5/5; 1782/1980] START leaf\_size=37, n\_neighbors=99...  
 [CV 1/5; 1771/1980] END leaf\_size=37, n\_neighbors=88;; score=0.652 total time=  
 0.0s  
 [CV 2/5; 1771/1980] START leaf\_size=37, n\_neighbors=88...  
 [CV 3/5; 1772/1980] END leaf\_size=37, n\_neighbors=89;; score=0.564 total time=  
 0.0s  
 [CV 4/5; 1772/1980] START leaf\_size=37, n\_neighbors=89...  
 [CV 4/5; 1779/1980] END leaf\_size=37, n\_neighbors=96;; score=0.582 total time=  
 0.0s  
 [CV 5/5; 1779/1980] START leaf\_size=37, n\_neighbors=96...  
 [CV 2/5; 1778/1980] END leaf\_size=37, n\_neighbors=95;; score=0.603 total time=  
 0.0s  
 [CV 3/5; 1778/1980] START leaf\_size=37, n\_neighbors=95...  
 [CV 2/5; 1775/1980] END leaf\_size=37, n\_neighbors=92;; score=0.598 total time=

0.0s  
[CV 3/5; 1775/1980] START leaf\_size=37, n\_neighbors=92...  
[CV 2/5; 1781/1980] END leaf\_size=37, n\_neighbors=98;; score=0.596 total time=  
0.0s  
[CV 3/5; 1781/1980] START leaf\_size=37, n\_neighbors=98...  
[CV 2/5; 1784/1980] END leaf\_size=38, n\_neighbors=2;; score=0.579 total time=  
0.0s  
[CV 4/5; 1773/1980] END leaf\_size=37, n\_neighbors=90;; score=0.580 total time=  
0.0s  
[CV 3/5; 1784/1980] START leaf\_size=38, n\_neighbors=2...  
[CV 5/5; 1773/1980] START leaf\_size=37, n\_neighbors=90...  
[CV 4/5; 1776/1980] END leaf\_size=37, n\_neighbors=93;; score=0.587 total time=  
0.0s  
[CV 5/5; 1776/1980] START leaf\_size=37, n\_neighbors=93...  
[CV 4/5; 1772/1980] END leaf\_size=37, n\_neighbors=89;; score=0.591 total time=  
0.0s  
[CV 5/5; 1772/1980] START leaf\_size=37, n\_neighbors=89...  
[CV 5/5; 1779/1980] END leaf\_size=37, n\_neighbors=96;; score=0.604 total time=  
0.0s  
[CV 1/5; 1780/1980] START leaf\_size=37, n\_neighbors=97...  
[CV 3/5; 1778/1980] END leaf\_size=37, n\_neighbors=95;; score=0.566 total time=  
0.0s  
[CV 4/5; 1778/1980] START leaf\_size=37, n\_neighbors=95...  
[CV 3/5; 1775/1980] END leaf\_size=37, n\_neighbors=92;; score=0.564 total time=  
0.0s  
[CV 4/5; 1775/1980] START leaf\_size=37, n\_neighbors=92...  
[CV 3/5; 1781/1980] END leaf\_size=37, n\_neighbors=98;; score=0.562 total time=  
0.0s  
[CV 4/5; 1781/1980] START leaf\_size=37, n\_neighbors=98...  
[CV 5/5; 1773/1980] END leaf\_size=37, n\_neighbors=90;; score=0.617 total time=  
0.0s  
[CV 1/5; 1774/1980] START leaf\_size=37, n\_neighbors=91...  
[CV 5/5; 1772/1980] END leaf\_size=37, n\_neighbors=89;; score=0.621 total time=  
0.0s  
[CV 5/5; 1785/1980] START leaf\_size=38, n\_neighbors=3...  
[CV 4/5; 1778/1980] END leaf\_size=37, n\_neighbors=95;; score=0.584 total time=  
0.0s  
[CV 5/5; 1778/1980] START leaf\_size=37, n\_neighbors=95...  
[CV 5/5; 1776/1980] END leaf\_size=37, n\_neighbors=93;; score=0.617 total time=  
0.0s[CV 1/5; 1780/1980] END leaf\_size=37, n\_neighbors=97;; score=0.641 total  
time= 0.0s  
  
[CV 2/5; 1780/1980] START leaf\_size=37, n\_neighbors=97...  
[CV 1/5; 1777/1980] START leaf\_size=37, n\_neighbors=94...  
[CV 4/5; 1775/1980] END leaf\_size=37, n\_neighbors=92;; score=0.582 total time=  
0.0s  
[CV 5/5; 1775/1980] START leaf\_size=37, n\_neighbors=92...  
[CV 4/5; 1781/1980] END leaf\_size=37, n\_neighbors=98;; score=0.584 total time=

0.0s  
 [CV 5/5; 1781/1980] START leaf\_size=37, n\_neighbors=98...  
 [CV 5/5; 1782/1980] END leaf\_size=37, n\_neighbors=99;; score=0.610 total time=  
 0.1s  
 [CV 1/5; 1783/1980] START leaf\_size=38, n\_neighbors=1...  
 [CV 5/5; 1785/1980] END leaf\_size=38, n\_neighbors=3;; score=0.593 total time=  
 0.0s  
 [CV 1/5; 1786/1980] START leaf\_size=38, n\_neighbors=4...  
 [CV 3/5; 1784/1980] END leaf\_size=38, n\_neighbors=2;; score=0.512 total time=  
 0.1s  
 [CV 4/5; 1784/1980] START leaf\_size=38, n\_neighbors=2...  
 [CV 1/5; 1774/1980] END leaf\_size=37, n\_neighbors=91;; score=0.648 total time=  
 0.0s  
 [CV 2/5; 1774/1980] START leaf\_size=37, n\_neighbors=91...  
 [CV 5/5; 1778/1980] END leaf\_size=37, n\_neighbors=95;; score=0.608 total time=  
 0.0s  
 [CV 1/5; 1779/1980] START leaf\_size=37, n\_neighbors=96...  
 [CV 2/5; 1780/1980] END leaf\_size=37, n\_neighbors=97;; score=0.594 total time=  
 0.0s  
 [CV 3/5; 1780/1980] START leaf\_size=37, n\_neighbors=97...  
 [CV 5/5; 1781/1980] END leaf\_size=37, n\_neighbors=98;; score=0.606 total time=  
 0.0s  
 [CV 1/5; 1782/1980] START leaf\_size=37, n\_neighbors=99...  
 [CV 1/5; 1786/1980] END leaf\_size=38, n\_neighbors=4;; score=0.562 total time=  
 0.0s  
 [CV 2/5; 1786/1980] START leaf\_size=38, n\_neighbors=4...  
 [CV 5/5; 1775/1980] END leaf\_size=37, n\_neighbors=92;; score=0.621 total time=  
 0.0s  
 [CV 1/5; 1776/1980] START leaf\_size=37, n\_neighbors=93...  
 [CV 1/5; 1783/1980] END leaf\_size=38, n\_neighbors=1;; score=0.516 total time=  
 0.0s  
 [CV 2/5; 1783/1980] START leaf\_size=38, n\_neighbors=1...  
 [CV 2/5; 1771/1980] END leaf\_size=37, n\_neighbors=88;; score=0.600 total time=  
 0.1s  
 [CV 4/5; 1784/1980] END leaf\_size=38, n\_neighbors=2;; score=0.571 total time=  
 0.0s  
 [CV 5/5; 1784/1980] START leaf\_size=38, n\_neighbors=2...  
 [CV 2/5; 1774/1980] END leaf\_size=37, n\_neighbors=91;; score=0.605 total time=  
 0.0s  
 [CV 3/5; 1774/1980] START leaf\_size=37, n\_neighbors=91...  
 [CV 1/5; 1777/1980] END leaf\_size=37, n\_neighbors=94;; score=0.644 total time=  
 0.1s  
 [CV 2/5; 1777/1980] START leaf\_size=37, n\_neighbors=94...  
 [CV 2/5; 1786/1980] END leaf\_size=38, n\_neighbors=4;; score=0.581 total time=  
 0.0s  
 [CV 3/5; 1786/1980] START leaf\_size=38, n\_neighbors=4...  
 [CV 2/5; 1783/1980] END leaf\_size=38, n\_neighbors=1;; score=0.568 total time=  
 0.0s

[CV 3/5; 1783/1980] START leaf\_size=38, n\_neighbors=1...  
 [CV 1/5; 1779/1980] END leaf\_size=37, n\_neighbors=96;; score=0.637 total time=0.0s  
 [CV 2/5; 1779/1980] START leaf\_size=37, n\_neighbors=96...  
 [CV 3/5; 1780/1980] END leaf\_size=37, n\_neighbors=97;; score=0.564 total time=0.0s  
 [CV 4/5; 1780/1980] START leaf\_size=37, n\_neighbors=97...  
 [CV 1/5; 1782/1980] END leaf\_size=37, n\_neighbors=99;; score=0.641 total time=0.0s  
 [CV 2/5; 1782/1980] START leaf\_size=37, n\_neighbors=99...  
 [CV 5/5; 1784/1980] END leaf\_size=38, n\_neighbors=2;; score=0.574 total time=0.0s  
 [CV 1/5; 1785/1980] START leaf\_size=38, n\_neighbors=3...  
 [CV 1/5; 1776/1980] END leaf\_size=37, n\_neighbors=93;; score=0.646 total time=0.0s  
 [CV 3/5; 1783/1980] END leaf\_size=38, n\_neighbors=1;; score=0.490 total time=0.0s  
 [CV 4/5; 1783/1980] START leaf\_size=38, n\_neighbors=1...  
 [CV 3/5; 1786/1980] END leaf\_size=38, n\_neighbors=4;; score=0.544 total time=0.0s  
 [CV 4/5; 1786/1980] START leaf\_size=38, n\_neighbors=4...  
 [CV 3/5; 1787/1980] START leaf\_size=38, n\_neighbors=5...  
 [CV 1/5; 1789/1980] START leaf\_size=38, n\_neighbors=7...  
 [CV 3/5; 1774/1980] END leaf\_size=37, n\_neighbors=91;; score=0.564 total time=0.0s  
 [CV 4/5; 1790/1980] START leaf\_size=38, n\_neighbors=8...  
 [CV 2/5; 1779/1980] END leaf\_size=37, n\_neighbors=96;; score=0.598 total time=0.0s  
 [CV 2/5; 1777/1980] END leaf\_size=37, n\_neighbors=94;; score=0.600 total time=0.0s  
 [CV 4/5; 1783/1980] END leaf\_size=38, n\_neighbors=1;; score=0.539 total time=0.0s  
 [CV 3/5; 1777/1980] START leaf\_size=37, n\_neighbors=94...  
 [CV 5/5; 1783/1980] START leaf\_size=38, n\_neighbors=1...  
 [CV 1/5; 1785/1980] END leaf\_size=38, n\_neighbors=3;; score=0.557 total time=0.0s  
 [CV 2/5; 1785/1980] START leaf\_size=38, n\_neighbors=3...  
 [CV 2/5; 1792/1980] START leaf\_size=38, n\_neighbors=10...  
 [CV 4/5; 1786/1980] END leaf\_size=38, n\_neighbors=4;; score=0.580 total time=0.0s  
 [CV 5/5; 1786/1980] START leaf\_size=38, n\_neighbors=4...  
 [CV 2/5; 1782/1980] END leaf\_size=37, n\_neighbors=99;; score=0.598 total time=0.0s  
 [CV 3/5; 1782/1980] START leaf\_size=37, n\_neighbors=99...  
 [CV 3/5; 1787/1980] END leaf\_size=38, n\_neighbors=5;; score=0.536 total time=0.0s  
 [CV 4/5; 1787/1980] START leaf\_size=38, n\_neighbors=5...  
 [CV 1/5; 1789/1980] END leaf\_size=38, n\_neighbors=7;; score=0.568 total time=

0.0s  
 [CV 2/5; 1789/1980] START leaf\_size=38, n\_neighbors=7...  
 [CV 4/5; 1780/1980] END leaf\_size=37, n\_neighbors=97;; score=0.580 total time=  
 0.0s  
 [CV 5/5; 1780/1980] START leaf\_size=37, n\_neighbors=97...  
 [CV 5/5; 1783/1980] END leaf\_size=38, n\_neighbors=1;; score=0.567 total time=  
 0.0s  
 [CV 1/5; 1784/1980] START leaf\_size=38, n\_neighbors=2...  
 [CV 4/5; 1790/1980] END leaf\_size=38, n\_neighbors=8;; score=0.617 total time=  
 0.0s  
 [CV 5/5; 1790/1980] START leaf\_size=38, n\_neighbors=8...  
 [CV 2/5; 1792/1980] END leaf\_size=38, n\_neighbors=10;; score=0.568 total time=  
 0.0s  
 [CV 3/5; 1792/1980] START leaf\_size=38, n\_neighbors=10...  
 [CV 5/5; 1786/1980] END leaf\_size=38, n\_neighbors=4;; score=0.593 total time=  
 0.0s  
 [CV 1/5; 1787/1980] START leaf\_size=38, n\_neighbors=5...  
 [CV 2/5; 1785/1980] END leaf\_size=38, n\_neighbors=3;; score=0.579 total time=  
 0.0s  
 [CV 3/5; 1785/1980] START leaf\_size=38, n\_neighbors=3...  
 [CV 3/5; 1777/1980] END leaf\_size=37, n\_neighbors=94;; score=0.562 total time=  
 0.0s  
 [CV 4/5; 1787/1980] END leaf\_size=38, n\_neighbors=5;; score=0.589 total time=  
 0.0s  
 [CV 4/5; 1777/1980] START leaf\_size=37, n\_neighbors=94...  
 [CV 5/5; 1787/1980] START leaf\_size=38, n\_neighbors=5...  
 [CV 2/5; 1789/1980] END leaf\_size=38, n\_neighbors=7;; score=0.559 total time=  
 0.0s  
 [CV 3/5; 1789/1980] START leaf\_size=38, n\_neighbors=7...  
 [CV 1/5; 1784/1980] END leaf\_size=38, n\_neighbors=2;; score=0.566 total time=  
 0.0s  
 [CV 5/5; 1793/1980] START leaf\_size=38, n\_neighbors=11...  
 [CV 3/5; 1792/1980] END leaf\_size=38, n\_neighbors=10;; score=0.549 total time=  
 0.0s  
 [CV 4/5; 1792/1980] START leaf\_size=38, n\_neighbors=10...  
 [CV 5/5; 1790/1980] END leaf\_size=38, n\_neighbors=8;; score=0.608 total time=  
 0.0s  
 [CV 1/5; 1791/1980] START leaf\_size=38, n\_neighbors=9...  
 [CV 1/5; 1787/1980] END leaf\_size=38, n\_neighbors=5;; score=0.546 total time=  
 0.0s  
 [CV 2/5; 1787/1980] START leaf\_size=38, n\_neighbors=5...  
 [CV 3/5; 1782/1980] END leaf\_size=37, n\_neighbors=99;; score=0.566 total time=  
 0.0s  
 [CV 3/5; 1795/1980] START leaf\_size=38, n\_neighbors=13...  
 [CV 5/5; 1787/1980] END leaf\_size=38, n\_neighbors=5;; score=0.591 total time=  
 0.0s  
 [CV 1/5; 1788/1980] START leaf\_size=38, n\_neighbors=6...  
 [CV 3/5; 1789/1980] END leaf\_size=38, n\_neighbors=7;; score=0.551 total time=

0.0s  
 [CV 4/5; 1789/1980] START leaf\_size=38, n\_neighbors=7...  
 [CV 3/5; 1785/1980] END leaf\_size=38, n\_neighbors=3;; score=0.484 total time=  
 0.0s  
 [CV 4/5; 1785/1980] START leaf\_size=38, n\_neighbors=3...  
 [CV 5/5; 1780/1980] END leaf\_size=37, n\_neighbors=97;; score=0.602 total time=  
 0.0s  
 [CV 5/5; 1793/1980] END leaf\_size=38, n\_neighbors=11;; score=0.606 total time=  
 0.0s  
 [CV 1/5; 1794/1980] START leaf\_size=38, n\_neighbors=12...  
 [CV 4/5; 1792/1980] END leaf\_size=38, n\_neighbors=10;; score=0.597 total time=  
 0.0s  
 [CV 5/5; 1792/1980] START leaf\_size=38, n\_neighbors=10...  
 [CV 2/5; 1787/1980] END leaf\_size=38, n\_neighbors=5;; score=0.562 total time=  
 0.0s  
 [CV 1/5; 1797/1980] START leaf\_size=38, n\_neighbors=15...  
 [CV 4/5; 1798/1980] START leaf\_size=38, n\_neighbors=16...  
 [CV 1/5; 1791/1980] END leaf\_size=38, n\_neighbors=9;; score=0.592 total time=  
 0.0s  
 [CV 2/5; 1791/1980] START leaf\_size=38, n\_neighbors=9...  
 [CV 4/5; 1777/1980] END leaf\_size=37, n\_neighbors=94;; score=0.582 total time=  
 0.0s  
 [CV 3/5; 1795/1980] END leaf\_size=38, n\_neighbors=13;; score=0.553 total time=  
 0.0s  
 [CV 4/5; 1795/1980] START leaf\_size=38, n\_neighbors=13...  
 [CV 1/5; 1788/1980] END leaf\_size=38, n\_neighbors=6;; score=0.570 total time=  
 0.0s  
 [CV 2/5; 1788/1980] START leaf\_size=38, n\_neighbors=6...  
 [CV 2/5; 1800/1980] START leaf\_size=38, n\_neighbors=18...  
 [CV 4/5; 1789/1980] END leaf\_size=38, n\_neighbors=7;; score=0.584 total time=  
 0.0s  
 [CV 5/5; 1789/1980] START leaf\_size=38, n\_neighbors=7...  
 [CV 1/5; 1794/1980] END leaf\_size=38, n\_neighbors=12;; score=0.648 total time=  
 0.0s  
 [CV 5/5; 1792/1980] END leaf\_size=38, n\_neighbors=10;; score=0.615 total time=  
 0.0s[CV 2/5; 1794/1980] START leaf\_size=38,  
 n\_neighbors=12...  
  
 [CV 1/5; 1793/1980] START leaf\_size=38, n\_neighbors=11...  
 [CV 4/5; 1785/1980] END leaf\_size=38, n\_neighbors=3;; score=0.584 total time=  
 0.0s  
 [CV 5/5; 1801/1980] START leaf\_size=38, n\_neighbors=19...  
 [CV 1/5; 1797/1980] END leaf\_size=38, n\_neighbors=15;; score=0.637 total time=  
 0.0s  
 [CV 2/5; 1797/1980] START leaf\_size=38, n\_neighbors=15...  
 [CV 4/5; 1798/1980] END leaf\_size=38, n\_neighbors=16;; score=0.584 total time=  
 0.0s  
 [CV 5/5; 1798/1980] START leaf\_size=38, n\_neighbors=16...



[CV 2/5; 1791/1980] END leaf\_size=38, n\_neighbors=9;; score=0.570 total time=0.0s  
 [CV 3/5; 1791/1980] START leaf\_size=38, n\_neighbors=9...  
 [CV 2/5; 1788/1980] END leaf\_size=38, n\_neighbors=6;; score=0.546 total time=0.0s  
 [CV 3/5; 1788/1980] START leaf\_size=38, n\_neighbors=6...  
 [CV 5/5; 1789/1980] END leaf\_size=38, n\_neighbors=7;; score=0.613 total time=0.0s  
 [CV 1/5; 1790/1980] START leaf\_size=38, n\_neighbors=8...  
 [CV 2/5; 1800/1980] END leaf\_size=38, n\_neighbors=18;; score=0.590 total time=0.0s  
 [CV 3/5; 1800/1980] START leaf\_size=38, n\_neighbors=18...  
 [CV 4/5; 1795/1980] END leaf\_size=38, n\_neighbors=13;; score=0.574 total time=0.0s  
 [CV 5/5; 1795/1980] START leaf\_size=38, n\_neighbors=13...  
 [CV 1/5; 1793/1980] END leaf\_size=38, n\_neighbors=11;; score=0.624 total time=0.0s  
 [CV 2/5; 1793/1980] START leaf\_size=38, n\_neighbors=11...  
 [CV 2/5; 1794/1980] END leaf\_size=38, n\_neighbors=12;; score=0.581 total time=0.0s  
 [CV 3/5; 1794/1980] START leaf\_size=38, n\_neighbors=12...  
 [CV 5/5; 1798/1980] END leaf\_size=38, n\_neighbors=16;; score=0.621 total time=0.0s  
 [CV 1/5; 1799/1980] START leaf\_size=38, n\_neighbors=17...  
 [CV 3/5; 1788/1980] END leaf\_size=38, n\_neighbors=6;; score=0.555 total time=0.0s  
 [CV 4/5; 1788/1980] START leaf\_size=38, n\_neighbors=6...  
 [CV 5/5; 1801/1980] END leaf\_size=38, n\_neighbors=19;; score=0.626 total time=0.0s  
 [CV 1/5; 1802/1980] START leaf\_size=38, n\_neighbors=20...  
 [CV 3/5; 1791/1980] END leaf\_size=38, n\_neighbors=9;; score=0.559 total time=0.0s  
 [CV 4/5; 1791/1980] START leaf\_size=38, n\_neighbors=9...  
 [CV 1/5; 1790/1980] END leaf\_size=38, n\_neighbors=8;; score=0.568 total time=0.0s  
 [CV 2/5; 1790/1980] START leaf\_size=38, n\_neighbors=8...  
 [CV 3/5; 1800/1980] END leaf\_size=38, n\_neighbors=18;; score=0.555 total time=0.0s  
 [CV 4/5; 1800/1980] START leaf\_size=38, n\_neighbors=18...  
 [CV 5/5; 1795/1980] END leaf\_size=38, n\_neighbors=13;; score=0.591 total time=0.0s  
 [CV 1/5; 1796/1980] START leaf\_size=38, n\_neighbors=14...  
 [CV 2/5; 1793/1980] END leaf\_size=38, n\_neighbors=11;; score=0.579 total time=0.0s  
 [CV 3/5; 1793/1980] START leaf\_size=38, n\_neighbors=11...  
 [CV 2/5; 1797/1980] END leaf\_size=38, n\_neighbors=15;; score=0.570 total time=0.0s  
 [CV 3/5; 1797/1980] START leaf\_size=38, n\_neighbors=15...

[CV 3/5; 1794/1980] END leaf\_size=38, n\_neighbors=12;; score=0.546 total time=0.0s  
 [CV 4/5; 1794/1980] START leaf\_size=38, n\_neighbors=12...  
 [CV 4/5; 1788/1980] END leaf\_size=38, n\_neighbors=6;; score=0.578 total time=0.0s  
 [CV 5/5; 1788/1980] START leaf\_size=38, n\_neighbors=6...  
 [CV 1/5; 1799/1980] END leaf\_size=38, n\_neighbors=17;; score=0.631 total time=0.0s  
 [CV 2/5; 1799/1980] START leaf\_size=38, n\_neighbors=17...  
 [CV 2/5; 1790/1980] END leaf\_size=38, n\_neighbors=8;; score=0.551 total time=0.0s  
 [CV 3/5; 1790/1980] START leaf\_size=38, n\_neighbors=8...  
 [CV 4/5; 1800/1980] END leaf\_size=38, n\_neighbors=18;; score=0.600 total time=0.0s  
 [CV 5/5; 1800/1980] START leaf\_size=38, n\_neighbors=18...  
 [CV 3/5; 1793/1980] END leaf\_size=38, n\_neighbors=11;; score=0.551 total time=0.0s  
 [CV 4/5; 1791/1980] END leaf\_size=38, n\_neighbors=9;; score=0.589 total time=0.0s  
 [CV 4/5; 1793/1980] START leaf\_size=38, n\_neighbors=11...  
 [CV 1/5; 1802/1980] END leaf\_size=38, n\_neighbors=20;; score=0.618 total time=0.0s  
  
 [CV 2/5; 1802/1980] START leaf\_size=38, n\_neighbors=20...  
 [CV 5/5; 1791/1980] START leaf\_size=38, n\_neighbors=9...  
 [CV 4/5; 1794/1980] END leaf\_size=38, n\_neighbors=12;; score=0.576 total time=0.0s  
 [CV 5/5; 1794/1980] START leaf\_size=38, n\_neighbors=12...  
 [CV 1/5; 1796/1980] END leaf\_size=38, n\_neighbors=14;; score=0.644 total time=0.0s  
 [CV 2/5; 1796/1980] START leaf\_size=38, n\_neighbors=14...  
 [CV 3/5; 1797/1980] END leaf\_size=38, n\_neighbors=15;; score=0.557 total time=0.0s  
 [CV 4/5; 1797/1980] START leaf\_size=38, n\_neighbors=15...  
 [CV 5/5; 1788/1980] END leaf\_size=38, n\_neighbors=6;; score=0.582 total time=0.0s  
 [CV 3/5; 1803/1980] START leaf\_size=38, n\_neighbors=21...  
 [CV 4/5; 1793/1980] END leaf\_size=38, n\_neighbors=11;; score=0.589 total time=0.0s  
 [CV 2/5; 1799/1980] END leaf\_size=38, n\_neighbors=17;; score=0.568 total time=0.0s  
 [CV 3/5; 1799/1980] START leaf\_size=38, n\_neighbors=17...  
 [CV 5/5; 1800/1980] END leaf\_size=38, n\_neighbors=18;; score=0.617 total time=0.0s  
 [CV 1/5; 1801/1980] START leaf\_size=38, n\_neighbors=19...  
 [CV 3/5; 1790/1980] END leaf\_size=38, n\_neighbors=8;; score=0.551 total time=0.0s  
 [CV 5/5; 1794/1980] END leaf\_size=38, n\_neighbors=12;; score=0.613 total time=

0.0s  
[CV 1/5; 1795/1980] START leaf\_size=38, n\_neighbors=13...  
[CV 5/5; 1791/1980] END leaf\_size=38, n\_neighbors=9;; score=0.613 total time=0.0s  
[CV 1/5; 1792/1980] START leaf\_size=38, n\_neighbors=10...  
[CV 2/5; 1802/1980] END leaf\_size=38, n\_neighbors=20;; score=0.583 total time=0.0s  
[CV 3/5; 1802/1980] START leaf\_size=38, n\_neighbors=20...  
[CV 2/5; 1796/1980] END leaf\_size=38, n\_neighbors=14;; score=0.572 total time=0.0s  
[CV 3/5; 1796/1980] START leaf\_size=38, n\_neighbors=14...  
[CV 1/5; 1805/1980] START leaf\_size=38, n\_neighbors=23...  
[CV 4/5; 1806/1980] START leaf\_size=38, n\_neighbors=24...  
[CV 4/5; 1797/1980] END leaf\_size=38, n\_neighbors=15;; score=0.584 total time=0.0s  
[CV 5/5; 1797/1980] START leaf\_size=38, n\_neighbors=15...  
[CV 3/5; 1803/1980] END leaf\_size=38, n\_neighbors=21;; score=0.559 total time=0.0s  
[CV 4/5; 1803/1980] START leaf\_size=38, n\_neighbors=21...  
[CV 3/5; 1799/1980] END leaf\_size=38, n\_neighbors=17;; score=0.564 total time=0.0s  
[CV 4/5; 1799/1980] START leaf\_size=38, n\_neighbors=17...  
[CV 1/5; 1795/1980] END leaf\_size=38, n\_neighbors=13;; score=0.633 total time=0.0s  
[CV 2/5; 1795/1980] START leaf\_size=38, n\_neighbors=13...  
[CV 1/5; 1801/1980] END leaf\_size=38, n\_neighbors=19;; score=0.637 total time=0.0s  
[CV 2/5; 1801/1980] START leaf\_size=38, n\_neighbors=19...  
[CV 1/5; 1792/1980] END leaf\_size=38, n\_neighbors=10;; score=0.611 total time=0.0s  
[CV 3/5; 1796/1980] END leaf\_size=38, n\_neighbors=14;; score=0.544 total time=0.0s  
[CV 4/5; 1796/1980] START leaf\_size=38, n\_neighbors=14...  
[CV 3/5; 1802/1980] END leaf\_size=38, n\_neighbors=20;; score=0.553 total time=0.0s  
[CV 4/5; 1802/1980] START leaf\_size=38, n\_neighbors=20...  
[CV 1/5; 1805/1980] END leaf\_size=38, n\_neighbors=23;; score=0.646 total time=0.0s  
[CV 2/5; 1805/1980] START leaf\_size=38, n\_neighbors=23...  
[CV 2/5; 1808/1980] START leaf\_size=38, n\_neighbors=26...  
[CV 4/5; 1799/1980] END leaf\_size=38, n\_neighbors=17;; score=0.580 total time=0.0s  
[CV 5/5; 1799/1980] START leaf\_size=38, n\_neighbors=17...  
[CV 4/5; 1803/1980] END leaf\_size=38, n\_neighbors=21;; score=0.606 total time=0.0s  
[CV 2/5; 1795/1980] END leaf\_size=38, n\_neighbors=13;; score=0.570 total time=0.0s  
[CV 5/5; 1803/1980] START leaf\_size=38, n\_neighbors=21...

[CV 5/5; 1809/1980] START leaf\_size=38, n\_neighbors=27...  
 [CV 4/5; 1796/1980] END leaf\_size=38, n\_neighbors=14;; score=0.584 total time=0.0s  
 [CV 5/5; 1796/1980] START leaf\_size=38, n\_neighbors=14...  
 [CV 5/5; 1797/1980] END leaf\_size=38, n\_neighbors=15;; score=0.615 total time=0.0s  
 [CV 2/5; 1801/1980] END leaf\_size=38, n\_neighbors=19;; score=0.583 total time=0.0s  
 [CV 3/5; 1801/1980] START leaf\_size=38, n\_neighbors=19...  
 [CV 2/5; 1805/1980] END leaf\_size=38, n\_neighbors=23;; score=0.583 total time=0.0s  
 [CV 3/5; 1805/1980] START leaf\_size=38, n\_neighbors=23...  
  
 [CV 1/5; 1798/1980] START leaf\_size=38, n\_neighbors=16...  
 [CV 4/5; 1802/1980] END leaf\_size=38, n\_neighbors=20;; score=0.600 total time=0.0s  
 [CV 5/5; 1802/1980] START leaf\_size=38, n\_neighbors=20...  
 [CV 4/5; 1806/1980] END leaf\_size=38, n\_neighbors=24;; score=0.597 total time=0.1s  
 [CV 5/5; 1806/1980] START leaf\_size=38, n\_neighbors=24...  
 [CV 2/5; 1808/1980] END leaf\_size=38, n\_neighbors=26;; score=0.600 total time=0.0s  
 [CV 3/5; 1808/1980] START leaf\_size=38, n\_neighbors=26...  
 [CV 5/5; 1799/1980] END leaf\_size=38, n\_neighbors=17;; score=0.610 total time=0.0s  
 [CV 1/5; 1800/1980] START leaf\_size=38, n\_neighbors=18...  
 [CV 5/5; 1809/1980] END leaf\_size=38, n\_neighbors=27;; score=0.630 total time=0.0s  
 [CV 1/5; 1810/1980] START leaf\_size=38, n\_neighbors=28...  
 [CV 3/5; 1805/1980] END leaf\_size=38, n\_neighbors=23;; score=0.557 total time=0.0s  
 [CV 4/5; 1805/1980] START leaf\_size=38, n\_neighbors=23...  
 [CV 1/5; 1798/1980] END leaf\_size=38, n\_neighbors=16;; score=0.637 total time=0.0s  
 [CV 2/5; 1798/1980] START leaf\_size=38, n\_neighbors=16...  
 [CV 3/5; 1801/1980] END leaf\_size=38, n\_neighbors=19;; score=0.551 total time=0.0s  
 [CV 4/5; 1801/1980] START leaf\_size=38, n\_neighbors=19...  
 [CV 5/5; 1802/1980] END leaf\_size=38, n\_neighbors=20;; score=0.632 total time=0.0s  
 [CV 1/5; 1803/1980] START leaf\_size=38, n\_neighbors=21...  
 [CV 1/5; 1800/1980] END leaf\_size=38, n\_neighbors=18;; score=0.635 total time=0.0s  
 [CV 5/5; 1806/1980] END leaf\_size=38, n\_neighbors=24;; score=0.647 total time=0.0s  
 [CV 1/5; 1807/1980] START leaf\_size=38, n\_neighbors=25...  
 [CV 3/5; 1811/1980] START leaf\_size=38, n\_neighbors=29...  
 [CV 4/5; 1805/1980] END leaf\_size=38, n\_neighbors=23;; score=0.600 total time=0.0s

[CV 5/5; 1805/1980] START leaf\_size=38, n\_neighbors=23...  
 [CV 5/5; 1796/1980] END leaf\_size=38, n\_neighbors=14;; score=0.606 total time=0.0s  
 [CV 1/5; 1813/1980] START leaf\_size=38, n\_neighbors=31...  
 [CV 2/5; 1798/1980] END leaf\_size=38, n\_neighbors=16;; score=0.575 total time=0.0s  
 [CV 3/5; 1798/1980] START leaf\_size=38, n\_neighbors=16...  
 [CV 1/5; 1803/1980] END leaf\_size=38, n\_neighbors=21;; score=0.626 total time=0.0s  
 [CV 2/5; 1803/1980] START leaf\_size=38, n\_neighbors=21...  
 [CV 5/5; 1803/1980] END leaf\_size=38, n\_neighbors=21;; score=0.621 total time=0.1s  
 [CV 1/5; 1804/1980] START leaf\_size=38, n\_neighbors=22...  
 [CV 3/5; 1808/1980] END leaf\_size=38, n\_neighbors=26;; score=0.564 total time=0.1s  
 [CV 3/5; 1811/1980] END leaf\_size=38, n\_neighbors=29;; score=0.577 total time=0.0s  
 [CV 4/5; 1811/1980] START leaf\_size=38, n\_neighbors=29...  
 [CV 1/5; 1807/1980] END leaf\_size=38, n\_neighbors=25;; score=0.646 total time=0.0s  
 [CV 2/5; 1807/1980] START leaf\_size=38, n\_neighbors=25...  
 [CV 1/5; 1813/1980] END leaf\_size=38, n\_neighbors=31;; score=0.644 total time=0.0s  
 [CV 2/5; 1813/1980] START leaf\_size=38, n\_neighbors=31...  
 [CV 5/5; 1805/1980] END leaf\_size=38, n\_neighbors=23;; score=0.643 total time=0.0s  
 [CV 1/5; 1806/1980] START leaf\_size=38, n\_neighbors=24...  
 [CV 2/5; 1803/1980] END leaf\_size=38, n\_neighbors=21;; score=0.581 total time=0.0s  
 [CV 4/5; 1814/1980] START leaf\_size=38, n\_neighbors=32...  
  
 [CV 4/5; 1808/1980] START leaf\_size=38, n\_neighbors=26...  
 [CV 1/5; 1804/1980] END leaf\_size=38, n\_neighbors=22;; score=0.622 total time=0.0s  
 [CV 2/5; 1804/1980] START leaf\_size=38, n\_neighbors=22...  
 [CV 3/5; 1798/1980] END leaf\_size=38, n\_neighbors=16;; score=0.557 total time=0.0s  
 [CV 4/5; 1811/1980] END leaf\_size=38, n\_neighbors=29;; score=0.600 total time=0.0s  
 [CV 5/5; 1811/1980] START leaf\_size=38, n\_neighbors=29...  
 [CV 1/5; 1810/1980] END leaf\_size=38, n\_neighbors=28;; score=0.650 total time=0.1s  
 [CV 2/5; 1810/1980] START leaf\_size=38, n\_neighbors=28...  
 [CV 2/5; 1816/1980] START leaf\_size=38, n\_neighbors=34...  
 [CV 2/5; 1807/1980] END leaf\_size=38, n\_neighbors=25;; score=0.598 total time=0.0s  
 [CV 3/5; 1807/1980] START leaf\_size=38, n\_neighbors=25...  
 [CV 4/5; 1801/1980] END leaf\_size=38, n\_neighbors=19;; score=0.589 total time=0.1s

[CV 2/5; 1813/1980] END leaf\_size=38, n\_neighbors=31;; score=0.603 total time=0.0s  
 [CV 3/5; 1813/1980] START leaf\_size=38, n\_neighbors=31...  
 [CV 5/5; 1817/1980] START leaf\_size=38, n\_neighbors=35...  
 [CV 1/5; 1806/1980] END leaf\_size=38, n\_neighbors=24;; score=0.646 total time=0.0s  
 [CV 2/5; 1806/1980] START leaf\_size=38, n\_neighbors=24...  
 [CV 4/5; 1814/1980] END leaf\_size=38, n\_neighbors=32;; score=0.593 total time=0.0s  
 [CV 5/5; 1814/1980] START leaf\_size=38, n\_neighbors=32...  
 [CV 2/5; 1804/1980] END leaf\_size=38, n\_neighbors=22;; score=0.587 total time=0.0s  
 [CV 3/5; 1804/1980] START leaf\_size=38, n\_neighbors=22...  
 [CV 5/5; 1811/1980] END leaf\_size=38, n\_neighbors=29;; score=0.639 total time=0.0s  
 [CV 1/5; 1812/1980] START leaf\_size=38, n\_neighbors=30...  
 [CV 2/5; 1806/1980] END leaf\_size=38, n\_neighbors=24;; score=0.596 total time=0.0s  
 [CV 3/5; 1806/1980] START leaf\_size=38, n\_neighbors=24...  
 [CV 5/5; 1817/1980] END leaf\_size=38, n\_neighbors=35;; score=0.639 total time=0.0s  
 [CV 1/5; 1818/1980] START leaf\_size=38, n\_neighbors=36...  
 [CV 3/5; 1813/1980] END leaf\_size=38, n\_neighbors=31;; score=0.570 total time=0.0s  
 [CV 4/5; 1813/1980] START leaf\_size=38, n\_neighbors=31...  
 [CV 3/5; 1807/1980] END leaf\_size=38, n\_neighbors=25;; score=0.557 total time=0.0s  
 [CV 4/5; 1807/1980] START leaf\_size=38, n\_neighbors=25...  
 [CV 3/5; 1804/1980] END leaf\_size=38, n\_neighbors=22;; score=0.555 total time=0.0s  
 [CV 4/5; 1804/1980] START leaf\_size=38,  
 n\_neighbors=22...[CV 2/5; 1810/1980] END leaf\_size=38,  
 n\_neighbors=28;; score=0.598 total time= 0.0s  
  
 [CV 3/5; 1810/1980] START leaf\_size=38, n\_neighbors=28...  
 [CV 4/5; 1808/1980] END leaf\_size=38, n\_neighbors=26;; score=0.593 total time=0.1s  
 [CV 2/5; 1816/1980] END leaf\_size=38, n\_neighbors=34;; score=0.600 total time=0.0s  
 [CV 5/5; 1808/1980] START leaf\_size=38,  
 n\_neighbors=26...  
  
 [CV 5/5; 1814/1980] END leaf\_size=38, n\_neighbors=32;; score=0.628 total time=0.0s  
 [CV 3/5; 1816/1980] START leaf\_size=38,  
 n\_neighbors=34...  
  
 [CV 1/5; 1815/1980] START leaf\_size=38, n\_neighbors=33...  
 [CV 1/5; 1812/1980] END leaf\_size=38, n\_neighbors=30;; score=0.639 total time=0.0s

[CV 2/5; 1812/1980] START leaf\_size=38, n\_neighbors=30...  
 [CV 3/5; 1806/1980] END leaf\_size=38, n\_neighbors=24;; score=0.564 total time=0.0s  
 [CV 3/5; 1819/1980] START leaf\_size=38, n\_neighbors=37...  
 [CV 4/5; 1804/1980] END leaf\_size=38, n\_neighbors=22;; score=0.600 total time=0.0s  
 [CV 4/5; 1813/1980] END leaf\_size=38, n\_neighbors=31;; score=0.595 total time=0.0s  
 [CV 5/5; 1804/1980] START leaf\_size=38, n\_neighbors=22...  
 [CV 5/5; 1813/1980] START leaf\_size=38, n\_neighbors=31...  
 [CV 3/5; 1810/1980] END leaf\_size=38, n\_neighbors=28;; score=0.568 total time=0.0s  
 [CV 4/5; 1807/1980] END leaf\_size=38, n\_neighbors=25;; score=0.587 total time=0.0s  
 [CV 4/5; 1810/1980] START leaf\_size=38, n\_neighbors=28...  
  
 [CV 5/5; 1807/1980] START leaf\_size=38, n\_neighbors=25...  
 [CV 1/5; 1818/1980] END leaf\_size=38, n\_neighbors=36;; score=0.644 total time=0.0s  
 [CV 2/5; 1818/1980] START leaf\_size=38, n\_neighbors=36...  
 [CV 5/5; 1808/1980] END leaf\_size=38, n\_neighbors=26;; score=0.628 total time=0.0s  
 [CV 1/5; 1809/1980] START leaf\_size=38, n\_neighbors=27...  
 [CV 2/5; 1812/1980] END leaf\_size=38, n\_neighbors=30;; score=0.607 total time=0.0s  
 [CV 3/5; 1812/1980] START leaf\_size=38, n\_neighbors=30...  
 [CV 1/5; 1815/1980] END leaf\_size=38, n\_neighbors=33;; score=0.646 total time=0.0s  
 [CV 3/5; 1816/1980] END leaf\_size=38, n\_neighbors=34;; score=0.577 total time= 0.0s  
  
 [CV 2/5; 1815/1980] START leaf\_size=38, n\_neighbors=33...  
 [CV 4/5; 1816/1980] START leaf\_size=38, n\_neighbors=34...  
  
 [CV 3/5; 1819/1980] END leaf\_size=38, n\_neighbors=37;; score=0.568 total time=0.0s  
 [CV 4/5; 1819/1980] START leaf\_size=38, n\_neighbors=37...  
 [CV 5/5; 1804/1980] END leaf\_size=38, n\_neighbors=22;; score=0.628 total time=0.0s  
 [CV 4/5; 1810/1980] END leaf\_size=38, n\_neighbors=28;; score=0.597 total time=0.0s  
 [CV 5/5; 1810/1980] START leaf\_size=38, n\_neighbors=28...  
 [CV 5/5; 1807/1980] END leaf\_size=38, n\_neighbors=25;; score=0.647 total time=0.0s  
 [CV 1/5; 1808/1980] START leaf\_size=38, n\_neighbors=26...  
 [CV 5/5; 1813/1980] END leaf\_size=38, n\_neighbors=31;; score=0.634 total time=0.0s  
 [CV 2/5; 1818/1980] END leaf\_size=38, n\_neighbors=36;; score=0.616 total time=

0.0s  
 [CV 1/5; 1814/1980] START leaf\_size=38, n\_neighbors=32...  
 [CV 3/5; 1818/1980] START leaf\_size=38, n\_neighbors=36...  
 [CV 3/5; 1812/1980] END leaf\_size=38, n\_neighbors=30;; score=0.579 total time=  
 0.0s  
 [CV 4/5; 1812/1980] START leaf\_size=38, n\_neighbors=30...  
 [CV 1/5; 1821/1980] START leaf\_size=38, n\_neighbors=39...  
 [CV 4/5; 1819/1980] END leaf\_size=38, n\_neighbors=37;; score=0.610 total time=  
 0.0s  
 [CV 5/5; 1819/1980] START leaf\_size=38, n\_neighbors=37...  
 [CV 1/5; 1809/1980] END leaf\_size=38, n\_neighbors=27;; score=0.650 total time=  
 0.0s  
 [CV 2/5; 1809/1980] START leaf\_size=38, n\_neighbors=27...  
 [CV 2/5; 1815/1980] END leaf\_size=38, n\_neighbors=33;; score=0.607 total time=  
 0.0s  
 [CV 3/5; 1815/1980] START leaf\_size=38, n\_neighbors=33...  
 [CV 5/5; 1810/1980] END leaf\_size=38, n\_neighbors=28;; score=0.641 total time=  
 0.0s  
 [CV 1/5; 1811/1980] START leaf\_size=38, n\_neighbors=29...  
 [CV 4/5; 1816/1980] END leaf\_size=38, n\_neighbors=34;; score=0.597 total time=  
 0.0s  
 [CV 5/5; 1816/1980] START leaf\_size=38, n\_neighbors=34...  
 [CV 4/5; 1812/1980] END leaf\_size=38, n\_neighbors=30;; score=0.595 total time=  
 0.0s  
 [CV 5/5; 1812/1980] START leaf\_size=38, n\_neighbors=30...  
 [CV 1/5; 1821/1980] END leaf\_size=38, n\_neighbors=39;; score=0.654 total time=  
 0.0s  
 [CV 2/5; 1821/1980] START leaf\_size=38, n\_neighbors=39...  
 [CV 5/5; 1819/1980] END leaf\_size=38, n\_neighbors=37;; score=0.628 total time=  
 0.0s  
 [CV 1/5; 1820/1980] START leaf\_size=38, n\_neighbors=38...  
 [CV 3/5; 1818/1980] END leaf\_size=38, n\_neighbors=36;; score=0.566 total time=  
 0.0s [CV 1/5; 1814/1980] END leaf\_size=38, n\_neighbors=32;; score=0.639 total  
 time= 0.0s  
 [CV 2/5; 1814/1980] START leaf\_size=38, n\_neighbors=32...  
 [CV 1/5; 1808/1980] END leaf\_size=38, n\_neighbors=26;; score=0.639 total time=  
 0.0s  
  
 [CV 4/5; 1818/1980] START leaf\_size=38, n\_neighbors=36...  
 [CV 4/5; 1822/1980] START leaf\_size=38, n\_neighbors=40...  
 [CV 2/5; 1809/1980] END leaf\_size=38, n\_neighbors=27;; score=0.594 total time=  
 0.0s [CV 1/5; 1811/1980] END leaf\_size=38, n\_neighbors=29;; score=0.646 total  
 time= 0.0s  
 [CV 2/5; 1811/1980] START leaf\_size=38, n\_neighbors=29...  
  
 [CV 3/5; 1809/1980] START leaf\_size=38, n\_neighbors=27...  
 [CV 5/5; 1812/1980] END leaf\_size=38, n\_neighbors=30;; score=0.632 total time=  
 0.0s



[CV 2/5; 1824/1980] START leaf\_size=38, n\_neighbors=42...  
 [CV 3/5; 1815/1980] END leaf\_size=38, n\_neighbors=33;; score=0.570 total time=0.0s  
 [CV 2/5; 1821/1980] END leaf\_size=38, n\_neighbors=39;; score=0.609 total time=0.0s  
 [CV 4/5; 1815/1980] START leaf\_size=38, n\_neighbors=33...  
  
 [CV 3/5; 1821/1980] START leaf\_size=38, n\_neighbors=39...  
 [CV 1/5; 1820/1980] END leaf\_size=38, n\_neighbors=38;; score=0.652 total time=0.0s  
 [CV 2/5; 1820/1980] START leaf\_size=38, n\_neighbors=38...  
 [CV 2/5; 1814/1980] END leaf\_size=38, n\_neighbors=32;; score=0.605 total time=0.0s  
 [CV 3/5; 1814/1980] START leaf\_size=38, n\_neighbors=32...  
 [CV 4/5; 1818/1980] END leaf\_size=38, n\_neighbors=36;; score=0.600 total time=0.0s  
 [CV 5/5; 1818/1980] START leaf\_size=38, n\_neighbors=36...  
 [CV 5/5; 1816/1980] END leaf\_size=38, n\_neighbors=34;; score=0.634 total time=0.0s  
 [CV 1/5; 1817/1980] START leaf\_size=38, n\_neighbors=35...  
 [CV 2/5; 1811/1980] END leaf\_size=38, n\_neighbors=29;; score=0.600 total time=0.0s  
 [CV 4/5; 1822/1980] END leaf\_size=38, n\_neighbors=40;; score=0.595 total time=0.0s  
 [CV 5/5; 1822/1980] START leaf\_size=38, n\_neighbors=40...  
 [CV 5/5; 1825/1980] START leaf\_size=38, n\_neighbors=43...  
 [CV 3/5; 1821/1980] END leaf\_size=38, n\_neighbors=39;; score=0.575 total time=0.0s  
 [CV 4/5; 1821/1980] START leaf\_size=38, n\_neighbors=39...  
 [CV 2/5; 1824/1980] END leaf\_size=38, n\_neighbors=42;; score=0.618 total time=0.0s  
 [CV 3/5; 1824/1980] START leaf\_size=38, n\_neighbors=42...  
 [CV 3/5; 1814/1980] END leaf\_size=38, n\_neighbors=32;; score=0.577 total time=0.0s  
 [CV 2/5; 1820/1980] END leaf\_size=38, n\_neighbors=38;; score=0.613 total time=0.0s  
 [CV 3/5; 1820/1980] START leaf\_size=38, n\_neighbors=38...  
 [CV 3/5; 1809/1980] END leaf\_size=38, n\_neighbors=27;; score=0.568 total time=0.0s  
 [CV 4/5; 1809/1980] START leaf\_size=38, n\_neighbors=27...  
 [CV 3/5; 1827/1980] START leaf\_size=38, n\_neighbors=45...  
 [CV 5/5; 1818/1980] END leaf\_size=38, n\_neighbors=36;; score=0.628 total time=0.0s  
 [CV 1/5; 1819/1980] START leaf\_size=38, n\_neighbors=37...  
 [CV 4/5; 1815/1980] END leaf\_size=38, n\_neighbors=33;; score=0.597 total time=0.0s  
 [CV 5/5; 1815/1980] START leaf\_size=38, n\_neighbors=33...  
 [CV 1/5; 1817/1980] END leaf\_size=38, n\_neighbors=35;; score=0.650 total time=

0.0s  
 [CV 2/5; 1817/1980] START leaf\_size=38, n\_neighbors=35...  
 [CV 5/5; 1825/1980] END leaf\_size=38, n\_neighbors=43;; score=0.615 total time=  
 0.0s  
 [CV 1/5; 1826/1980] START leaf\_size=38, n\_neighbors=44...  
 [CV 5/5; 1822/1980] END leaf\_size=38, n\_neighbors=40;; score=0.617 total time=  
 0.0s  
 [CV 1/5; 1823/1980] START leaf\_size=38, n\_neighbors=41...  
 [CV 4/5; 1821/1980] END leaf\_size=38, n\_neighbors=39;; score=0.602 total time=  
 0.0s  
 [CV 5/5; 1821/1980] START leaf\_size=38, n\_neighbors=39...  
 [CV 3/5; 1824/1980] END leaf\_size=38, n\_neighbors=42;; score=0.564 total time=  
 0.0s  
 [CV 3/5; 1820/1980] END leaf\_size=38, n\_neighbors=38;; score=0.566 total time=  
 0.0s  
 [CV 4/5; 1824/1980] START leaf\_size=38, n\_neighbors=42...  
 [CV 4/5; 1820/1980] START leaf\_size=38, n\_neighbors=38...  
 [CV 1/5; 1819/1980] END leaf\_size=38, n\_neighbors=37;; score=0.657 total time=  
 0.0s  
 [CV 2/5; 1819/1980] START leaf\_size=38, n\_neighbors=37...  
 [CV 3/5; 1827/1980] END leaf\_size=38, n\_neighbors=45;; score=0.575 total time=  
 0.0s  
 [CV 4/5; 1827/1980] START leaf\_size=38, n\_neighbors=45...  
 [CV 4/5; 1809/1980] END leaf\_size=38, n\_neighbors=27;; score=0.593 total time=  
 0.0s  
 [CV 1/5; 1829/1980] START leaf\_size=38, n\_neighbors=47...  
 [CV 1/5; 1826/1980] END leaf\_size=38, n\_neighbors=44;; score=0.667 total time=  
 0.0s  
 [CV 2/5; 1826/1980] START leaf\_size=38, n\_neighbors=44...  
 [CV 2/5; 1817/1980] END leaf\_size=38, n\_neighbors=35;; score=0.607 total time=  
 0.0s  
 [CV 3/5; 1817/1980] START leaf\_size=38, n\_neighbors=35...  
 [CV 1/5; 1823/1980] END leaf\_size=38, n\_neighbors=41;; score=0.665 total time=  
 0.0s  
 [CV 2/5; 1823/1980] START leaf\_size=38, n\_neighbors=41...  
 [CV 5/5; 1815/1980] END leaf\_size=38, n\_neighbors=33;; score=0.630 total time=  
 0.0s  
 [CV 1/5; 1816/1980] START leaf\_size=38, n\_neighbors=34...  
 [CV 5/5; 1821/1980] END leaf\_size=38, n\_neighbors=39;; score=0.636 total time=  
 0.0s  
 [CV 1/5; 1822/1980] START leaf\_size=38, n\_neighbors=40...  
 [CV 4/5; 1824/1980] END leaf\_size=38, n\_neighbors=42;; score=0.608 total time=  
 0.0s  
 [CV 5/5; 1824/1980] START leaf\_size=38, n\_neighbors=42...  
 [CV 4/5; 1820/1980] END leaf\_size=38, n\_neighbors=38;; score=0.602 total time=  
 0.0s  
 [CV 5/5; 1820/1980] START leaf\_size=38, n\_neighbors=38...  
 [CV 2/5; 1819/1980] END leaf\_size=38, n\_neighbors=37;; score=0.607 total time=

0.0s  
 [CV 4/5; 1830/1980] START leaf\_size=38, n\_neighbors=48...  
 [CV 4/5; 1827/1980] END leaf\_size=38, n\_neighbors=45;; score=0.600 total time=  
 0.0s  
 [CV 5/5; 1827/1980] START leaf\_size=38, n\_neighbors=45...  
 [CV 2/5; 1826/1980] END leaf\_size=38, n\_neighbors=44;; score=0.613 total time=  
 0.0s  
 [CV 3/5; 1826/1980] START leaf\_size=38, n\_neighbors=44...  
 [CV 3/5; 1817/1980] END leaf\_size=38, n\_neighbors=35;; score=0.572 total time=  
 0.0s  
 [CV 4/5; 1817/1980] START leaf\_size=38, n\_neighbors=35...  
 [CV 1/5; 1829/1980] END leaf\_size=38, n\_neighbors=47;; score=0.676 total time=  
 0.0s  
 [CV 2/5; 1829/1980] START leaf\_size=38, n\_neighbors=47...  
 [CV 2/5; 1823/1980] END leaf\_size=38, n\_neighbors=41;; score=0.618 total time=  
 0.0s  
 [CV 3/5; 1823/1980] START leaf\_size=38, n\_neighbors=41...  
 [CV 1/5; 1822/1980] END leaf\_size=38, n\_neighbors=40;; score=0.661 total time=  
 0.0s  
 [CV 2/5; 1822/1980] START leaf\_size=38, n\_neighbors=40...  
 [CV 1/5; 1816/1980] END leaf\_size=38, n\_neighbors=34;; score=0.644 total time=  
 0.0s  
 [CV 5/5; 1824/1980] END leaf\_size=38, n\_neighbors=42;; score=0.621 total time=  
 0.0s  
 [CV 1/5; 1825/1980] START leaf\_size=38, n\_neighbors=43...  
 [CV 5/5; 1820/1980] END leaf\_size=38, n\_neighbors=38;; score=0.634 total time=  
 0.0s  
 [CV 2/5; 1832/1980] START leaf\_size=38, n\_neighbors=50...  
 [CV 5/5; 1833/1980] START leaf\_size=38, n\_neighbors=51...  
 [CV 4/5; 1830/1980] END leaf\_size=38, n\_neighbors=48;; score=0.589 total time=  
 0.0s  
 [CV 5/5; 1830/1980] START leaf\_size=38, n\_neighbors=48...  
 [CV 5/5; 1827/1980] END leaf\_size=38, n\_neighbors=45;; score=0.619 total time=  
 0.0s  
 [CV 1/5; 1828/1980] START leaf\_size=38, n\_neighbors=46...  
 [CV 3/5; 1826/1980] END leaf\_size=38, n\_neighbors=44;; score=0.570 total time=  
 0.0s  
 [CV 4/5; 1826/1980] START leaf\_size=38, n\_neighbors=44...  
 [CV 4/5; 1817/1980] END leaf\_size=38, n\_neighbors=35;; score=0.604 total time=  
 0.0s  
 [CV 2/5; 1829/1980] END leaf\_size=38, n\_neighbors=47;; score=0.611 total time=  
 0.0s  
 [CV 3/5; 1829/1980] START leaf\_size=38, n\_neighbors=47...  
 [CV 3/5; 1835/1980] START leaf\_size=38, n\_neighbors=53...  
 [CV 3/5; 1823/1980] END leaf\_size=38, n\_neighbors=41;; score=0.568 total time=  
 0.0s  
 [CV 4/5; 1823/1980] START leaf\_size=38, n\_neighbors=41...  
 [CV 1/5; 1825/1980] END leaf\_size=38, n\_neighbors=43;; score=0.674 total time=

0.0s  
 [CV 2/5; 1825/1980] START leaf\_size=38, n\_neighbors=43...  
 [CV 2/5; 1822/1980] END leaf\_size=38, n\_neighbors=40;; score=0.611 total time=  
 0.0s  
 [CV 3/5; 1822/1980] START leaf\_size=38, n\_neighbors=40...  
 [CV 5/5; 1830/1980] END leaf\_size=38, n\_neighbors=48;; score=0.630 total time=  
 0.0s  
 [CV 1/5; 1831/1980] START leaf\_size=38, n\_neighbors=49...  
 [CV 5/5; 1833/1980] END leaf\_size=38, n\_neighbors=51;; score=0.621 total time=  
 0.0s  
 [CV 1/5; 1834/1980] START leaf\_size=38, n\_neighbors=52...  
 [CV 2/5; 1832/1980] END leaf\_size=38, n\_neighbors=50;; score=0.603 total time=  
 0.0s  
 [CV 3/5; 1832/1980] START leaf\_size=38, n\_neighbors=50...  
 [CV 4/5; 1826/1980] END leaf\_size=38, n\_neighbors=44;; score=0.597 total time=  
 0.0s  
 [CV 5/5; 1826/1980] START leaf\_size=38, n\_neighbors=44...  
 [CV 1/5; 1828/1980] END leaf\_size=38, n\_neighbors=46;; score=0.672 total time=  
 0.0s  
 [CV 2/5; 1828/1980] START leaf\_size=38, n\_neighbors=46...  
 [CV 4/5; 1823/1980] END leaf\_size=38, n\_neighbors=41;; score=0.610 total time=  
 0.0s  
 [CV 5/5; 1823/1980] START leaf\_size=38, n\_neighbors=41...  
 [CV 3/5; 1829/1980] END leaf\_size=38, n\_neighbors=47;; score=0.572 total time=  
 0.0s  
 [CV 4/5; 1829/1980] START leaf\_size=38, n\_neighbors=47...  
 [CV 3/5; 1822/1980] END leaf\_size=38, n\_neighbors=40;; score=0.572 total time=  
 0.0s  
 [CV 2/5; 1825/1980] END leaf\_size=38, n\_neighbors=43;; score=0.616 total time=  
 0.0s  
 [CV 3/5; 1825/1980] START leaf\_size=38, n\_neighbors=43...  
 [CV 1/5; 1831/1980] END leaf\_size=38, n\_neighbors=49;; score=0.676 total time=  
 0.0s  
 [CV 2/5; 1831/1980] START leaf\_size=38, n\_neighbors=49...  
 [CV 1/5; 1834/1980] END leaf\_size=38, n\_neighbors=52;; score=0.676 total time=  
 0.0s  
 [CV 2/5; 1834/1980] START leaf\_size=38, n\_neighbors=52...  
 [CV 3/5; 1832/1980] END leaf\_size=38, n\_neighbors=50;; score=0.557 total time=  
 0.0s  
 [CV 4/5; 1832/1980] START leaf\_size=38, n\_neighbors=50...  
 [CV 5/5; 1826/1980] END leaf\_size=38, n\_neighbors=44;; score=0.615 total time=  
 0.0s  
 [CV 1/5; 1827/1980] START leaf\_size=38, n\_neighbors=45...  
 [CV 3/5; 1835/1980] END leaf\_size=38, n\_neighbors=53;; score=0.572 total time=  
 0.0s  
 [CV 4/5; 1835/1980] START leaf\_size=38, n\_neighbors=53...  
 [CV 2/5; 1828/1980] END leaf\_size=38, n\_neighbors=46;; score=0.616 total time=  
 0.0s

[CV 3/5; 1828/1980] START leaf\_size=38, n\_neighbors=46...  
 [CV 1/5; 1837/1980] START leaf\_size=38, n\_neighbors=55...  
 [CV 5/5; 1823/1980] END leaf\_size=38, n\_neighbors=41;; score=0.619 total time=0.0s  
 [CV 1/5; 1824/1980] START leaf\_size=38, n\_neighbors=42...  
 [CV 3/5; 1825/1980] END leaf\_size=38, n\_neighbors=43;; score=0.566 total time=0.0s  
 [CV 4/5; 1825/1980] START leaf\_size=38, n\_neighbors=43...  
 [CV 4/5; 1829/1980] END leaf\_size=38, n\_neighbors=47;; score=0.589 total time=0.0s  
 [CV 5/5; 1829/1980] START leaf\_size=38, n\_neighbors=47...  
 [CV 2/5; 1831/1980] END leaf\_size=38, n\_neighbors=49;; score=0.622 total time=0.0s  
 [CV 3/5; 1831/1980] START leaf\_size=38, n\_neighbors=49...  
 [CV 2/5; 1834/1980] END leaf\_size=38, n\_neighbors=52;; score=0.611 total time=0.0s  
 [CV 3/5; 1834/1980] START leaf\_size=38, n\_neighbors=52...  
 [CV 4/5; 1832/1980] END leaf\_size=38, n\_neighbors=50;; score=0.597 total time=0.0s  
 [CV 5/5; 1832/1980] START leaf\_size=38, n\_neighbors=50...  
 [CV 1/5; 1827/1980] END leaf\_size=38, n\_neighbors=45;; score=0.678 total time=0.0s  
 [CV 2/5; 1827/1980] START leaf\_size=38, n\_neighbors=45...  
 [CV 3/5; 1828/1980] END leaf\_size=38, n\_neighbors=46;; score=0.572 total time=0.0s  
 [CV 4/5; 1828/1980] START leaf\_size=38, n\_neighbors=46...  
 [CV 1/5; 1837/1980] END leaf\_size=38, n\_neighbors=55;; score=0.667 total time=0.0s  
 [CV 2/5; 1837/1980] START leaf\_size=38, n\_neighbors=55...  
 [CV 4/5; 1835/1980] END leaf\_size=38, n\_neighbors=53;; score=0.600 total time=0.0s  
 [CV 5/5; 1835/1980] START leaf\_size=38, n\_neighbors=53...  
 [CV 4/5; 1825/1980] END leaf\_size=38, n\_neighbors=43;; score=0.600 total time=0.0s  
 [CV 1/5; 1824/1980] END leaf\_size=38, n\_neighbors=42;; score=0.667 total time=0.0s  
 [CV 4/5; 1838/1980] START leaf\_size=38, n\_neighbors=56...  
 [CV 2/5; 1840/1980] START leaf\_size=38, n\_neighbors=58...  
 [CV 3/5; 1834/1980] END leaf\_size=38, n\_neighbors=52;; score=0.566 total time=0.0s  
 [CV 4/5; 1834/1980] START leaf\_size=38, n\_neighbors=52...  
 [CV 5/5; 1832/1980] END leaf\_size=38, n\_neighbors=50;; score=0.619 total time=0.0s  
 [CV 1/5; 1833/1980] START leaf\_size=38, n\_neighbors=51...  
 [CV 3/5; 1831/1980] END leaf\_size=38, n\_neighbors=49;; score=0.568 total time=0.0s  
 [CV 4/5; 1831/1980] START leaf\_size=38, n\_neighbors=49...  
 [CV 2/5; 1827/1980] END leaf\_size=38, n\_neighbors=45;; score=0.611 total time=

0.0s  
[CV 5/5; 1841/1980] START leaf\_size=38, n\_neighbors=59...  
[CV 4/5; 1828/1980] END leaf\_size=38, n\_neighbors=46;; score=0.597 total time=0.0s  
[CV 5/5; 1828/1980] START leaf\_size=38, n\_neighbors=46...  
[CV 2/5; 1837/1980] END leaf\_size=38, n\_neighbors=55;; score=0.618 total time=0.0s  
[CV 3/5; 1837/1980] START leaf\_size=38, n\_neighbors=55...  
[CV 5/5; 1829/1980] END leaf\_size=38, n\_neighbors=47;; score=0.623 total time=0.0s  
[CV 1/5; 1830/1980] START leaf\_size=38, n\_neighbors=48...  
[CV 4/5; 1838/1980] END leaf\_size=38, n\_neighbors=56;; score=0.591 total time=0.0s  
[CV 5/5; 1838/1980] START leaf\_size=38, n\_neighbors=56...  
[CV 5/5; 1835/1980] END leaf\_size=38, n\_neighbors=53;; score=0.613 total time=0.0s  
[CV 1/5; 1836/1980] START leaf\_size=38, n\_neighbors=54...  
[CV 2/5; 1840/1980] END leaf\_size=38, n\_neighbors=58;; score=0.609 total time=0.0s  
[CV 3/5; 1840/1980] START leaf\_size=38, n\_neighbors=58...  
[CV 4/5; 1831/1980] END leaf\_size=38, n\_neighbors=49;; score=0.593 total time=0.0s  
[CV 5/5; 1831/1980] START leaf\_size=38, n\_neighbors=49...  
[CV 4/5; 1834/1980] END leaf\_size=38, n\_neighbors=52;; score=0.597 total time=0.0s  
[CV 5/5; 1834/1980] START leaf\_size=38, n\_neighbors=52...  
[CV 1/5; 1833/1980] END leaf\_size=38, n\_neighbors=51;; score=0.680 total time=0.0s  
[CV 2/5; 1833/1980] START leaf\_size=38, n\_neighbors=51...  
[CV 5/5; 1841/1980] END leaf\_size=38, n\_neighbors=59;; score=0.610 total time=0.0s  
[CV 1/5; 1842/1980] START leaf\_size=38, n\_neighbors=60...  
[CV 5/5; 1828/1980] END leaf\_size=38, n\_neighbors=46;; score=0.619 total time=0.0s  
[CV 3/5; 1843/1980] START leaf\_size=38, n\_neighbors=61...  
[CV 5/5; 1838/1980] END leaf\_size=38, n\_neighbors=56;; score=0.613 total time=0.0s  
[CV 1/5; 1839/1980] START leaf\_size=38, n\_neighbors=57...  
[CV 3/5; 1840/1980] END leaf\_size=38, n\_neighbors=58;; score=0.549 total time=0.0s  
[CV 4/5; 1840/1980] START leaf\_size=38, n\_neighbors=58...  
[CV 3/5; 1837/1980] END leaf\_size=38, n\_neighbors=55;; score=0.564 total time=0.0s  
[CV 4/5; 1837/1980] START leaf\_size=38, n\_neighbors=55...  
[CV 5/5; 1834/1980] END leaf\_size=38, n\_neighbors=52;; score=0.619 total time=0.0s  
[CV 1/5; 1835/1980] START leaf\_size=38, n\_neighbors=53...  
[CV 5/5; 1831/1980] END leaf\_size=38, n\_neighbors=49;; score=0.623 total time=

0.0s  
 [CV 1/5; 1832/1980] START leaf\_size=38, n\_neighbors=50...  
 [CV 1/5; 1830/1980] END leaf\_size=38, n\_neighbors=48;; score=0.672 total time=  
 0.0s  
 [CV 2/5; 1830/1980] START leaf\_size=38, n\_neighbors=48...  
 [CV 2/5; 1833/1980] END leaf\_size=38, n\_neighbors=51;; score=0.618 total time=  
 0.0s  
 [CV 3/5; 1833/1980] START leaf\_size=38, n\_neighbors=51...  
 [CV 1/5; 1842/1980] END leaf\_size=38, n\_neighbors=60;; score=0.667 total time=  
 0.0s  
 [CV 2/5; 1842/1980] START leaf\_size=38, n\_neighbors=60...  
 [CV 3/5; 1843/1980] END leaf\_size=38, n\_neighbors=61;; score=0.557 total time=  
 0.0s  
 [CV 4/5; 1843/1980] START leaf\_size=38, n\_neighbors=61...  
 [CV 1/5; 1836/1980] END leaf\_size=38, n\_neighbors=54;; score=0.667 total time=  
 0.0s  
 [CV 2/5; 1836/1980] START leaf\_size=38, n\_neighbors=54...  
 [CV 1/5; 1839/1980] END leaf\_size=38, n\_neighbors=57;; score=0.665 total time=  
 0.0s  
 [CV 2/5; 1839/1980] START leaf\_size=38, n\_neighbors=57...  
 [CV 4/5; 1837/1980] END leaf\_size=38, n\_neighbors=55;; score=0.593 total time=  
 0.0s  
 [CV 5/5; 1837/1980] START leaf\_size=38, n\_neighbors=55...  
 [CV 4/5; 1840/1980] END leaf\_size=38, n\_neighbors=58;; score=0.595 total time=  
 0.0s  
 [CV 5/5; 1840/1980] START leaf\_size=38, n\_neighbors=58...  
 [CV 1/5; 1835/1980] END leaf\_size=38, n\_neighbors=53;; score=0.678 total time=  
 0.0s  
 [CV 2/5; 1835/1980] START leaf\_size=38, n\_neighbors=53...  
 [CV 1/5; 1832/1980] END leaf\_size=38, n\_neighbors=50;; score=0.678 total time=  
 0.0s  
 [CV 3/5; 1833/1980] END leaf\_size=38, n\_neighbors=51;; score=0.566 total time=  
 0.0s  
 [CV 4/5; 1833/1980] START leaf\_size=38, n\_neighbors=51...  
 [CV 2/5; 1830/1980] END leaf\_size=38, n\_neighbors=48;; score=0.609 total time=  
 0.0s  
 [CV 3/5; 1830/1980] START leaf\_size=38, n\_neighbors=48...  
 [CV 1/5; 1845/1980] START leaf\_size=38, n\_neighbors=63...  
 [CV 2/5; 1842/1980] END leaf\_size=38, n\_neighbors=60;; score=0.605 total time=  
 0.0s  
 [CV 3/5; 1842/1980] START leaf\_size=38, n\_neighbors=60...  
 [CV 4/5; 1843/1980] END leaf\_size=38, n\_neighbors=61;; score=0.604 total time=  
 0.0s  
 [CV 5/5; 1843/1980] START leaf\_size=38, n\_neighbors=61...  
 [CV 2/5; 1836/1980] END leaf\_size=38, n\_neighbors=54;; score=0.618 total time=  
 0.0s  
 [CV 3/5; 1836/1980] START leaf\_size=38, n\_neighbors=54...  
 [CV 2/5; 1839/1980] END leaf\_size=38, n\_neighbors=57;; score=0.616 total time=

0.0s  
[CV 3/5; 1839/1980] START leaf\_size=38, n\_neighbors=57...  
[CV 5/5; 1837/1980] END leaf\_size=38, n\_neighbors=55;; score=0.608 total time=0.0s  
[CV 1/5; 1838/1980] START leaf\_size=38, n\_neighbors=56...  
[CV 2/5; 1835/1980] END leaf\_size=38, n\_neighbors=53;; score=0.611 total time=0.0s  
[CV 5/5; 1840/1980] END leaf\_size=38, n\_neighbors=58;; score=0.610 total time=0.0s  
[CV 1/5; 1841/1980] START leaf\_size=38, n\_neighbors=59...  
[CV 4/5; 1846/1980] START leaf\_size=38, n\_neighbors=64...  
[CV 4/5; 1833/1980] END leaf\_size=38, n\_neighbors=51;; score=0.602 total time=0.0s  
[CV 2/5; 1848/1980] START leaf\_size=38, n\_neighbors=66...  
[CV 3/5; 1830/1980] END leaf\_size=38, n\_neighbors=48;; score=0.562 total time=0.0s  
[CV 3/5; 1842/1980] END leaf\_size=38, n\_neighbors=60;; score=0.553 total time=0.0s  
[CV 4/5; 1842/1980] START leaf\_size=38, n\_neighbors=60...  
[CV 1/5; 1845/1980] END leaf\_size=38, n\_neighbors=63;; score=0.665 total time=0.0s  
[CV 2/5; 1845/1980] START leaf\_size=38, n\_neighbors=63...  
[CV 5/5; 1849/1980] START leaf\_size=38, n\_neighbors=67...  
[CV 5/5; 1843/1980] END leaf\_size=38, n\_neighbors=61;; score=0.606 total time=0.0s  
[CV 1/5; 1844/1980] START leaf\_size=38, n\_neighbors=62...  
[CV 3/5; 1839/1980] END leaf\_size=38, n\_neighbors=57;; score=0.559 total time=0.0s  
[CV 4/5; 1839/1980] START leaf\_size=38, n\_neighbors=57...  
[CV 3/5; 1836/1980] END leaf\_size=38, n\_neighbors=54;; score=0.562 total time=0.0s  
[CV 4/5; 1836/1980] START leaf\_size=38, n\_neighbors=54...  
[CV 1/5; 1838/1980] END leaf\_size=38, n\_neighbors=56;; score=0.670 total time=0.0s  
[CV 2/5; 1838/1980] START leaf\_size=38, n\_neighbors=56...  
[CV 1/5; 1841/1980] END leaf\_size=38, n\_neighbors=59;; score=0.670 total time=0.0s  
[CV 2/5; 1841/1980] START leaf\_size=38, n\_neighbors=59...  
[CV 4/5; 1846/1980] END leaf\_size=38, n\_neighbors=64;; score=0.593 total time=0.0s  
[CV 5/5; 1846/1980] START leaf\_size=38, n\_neighbors=64...  
[CV 2/5; 1848/1980] END leaf\_size=38, n\_neighbors=66;; score=0.609 total time=0.0s  
[CV 3/5; 1848/1980] START leaf\_size=38, n\_neighbors=66...  
[CV 4/5; 1842/1980] END leaf\_size=38, n\_neighbors=60;; score=0.602 total time=0.0s  
[CV 5/5; 1842/1980] START leaf\_size=38, n\_neighbors=60...  
[CV 2/5; 1845/1980] END leaf\_size=38, n\_neighbors=63;; score=0.609 total time=



0.0s  
[CV 3/5; 1845/1980] START leaf\_size=38, n\_neighbors=63...  
[CV 5/5; 1849/1980] END leaf\_size=38, n\_neighbors=67;; score=0.613 total time=0.0s  
[CV 1/5; 1850/1980] START leaf\_size=38, n\_neighbors=68...  
[CV 4/5; 1839/1980] END leaf\_size=38, n\_neighbors=57;; score=0.597 total time=0.0s  
[CV 5/5; 1839/1980] START leaf\_size=38, n\_neighbors=57...  
[CV 1/5; 1844/1980] END leaf\_size=38, n\_neighbors=62;; score=0.663 total time=0.0s  
[CV 2/5; 1844/1980] START leaf\_size=38, n\_neighbors=62...  
[CV 2/5; 1838/1980] END leaf\_size=38, n\_neighbors=56;; score=0.609 total time=0.0s  
[CV 3/5; 1838/1980] START leaf\_size=38, n\_neighbors=56...  
[CV 4/5; 1836/1980] END leaf\_size=38, n\_neighbors=54;; score=0.595 total time=0.0s  
[CV 5/5; 1836/1980] START leaf\_size=38, n\_neighbors=54...  
[CV 5/5; 1846/1980] END leaf\_size=38, n\_neighbors=64;; score=0.613 total time=0.0s  
[CV 1/5; 1847/1980] START leaf\_size=38, n\_neighbors=65...  
[CV 2/5; 1841/1980] END leaf\_size=38, n\_neighbors=59;; score=0.609 total time=0.0s  
[CV 3/5; 1841/1980] START leaf\_size=38, n\_neighbors=59...  
[CV 5/5; 1842/1980] END leaf\_size=38, n\_neighbors=60;; score=0.604 total time=0.0s  
[CV 1/5; 1843/1980] START leaf\_size=38, n\_neighbors=61...  
[CV 3/5; 1848/1980] END leaf\_size=38, n\_neighbors=66;; score=0.566 total time=0.0s  
[CV 4/5; 1848/1980] START leaf\_size=38, n\_neighbors=66...  
[CV 3/5; 1845/1980] END leaf\_size=38, n\_neighbors=63;; score=0.562 total time=0.0s  
[CV 4/5; 1845/1980] START leaf\_size=38, n\_neighbors=63...  
[CV 1/5; 1850/1980] END leaf\_size=38, n\_neighbors=68;; score=0.667 total time=0.0s  
[CV 2/5; 1850/1980] START leaf\_size=38, n\_neighbors=68...  
[CV 5/5; 1839/1980] END leaf\_size=38, n\_neighbors=57;; score=0.610 total time=0.0s  
[CV 1/5; 1840/1980] START leaf\_size=38, n\_neighbors=58...  
[CV 3/5; 1838/1980] END leaf\_size=38, n\_neighbors=56;; score=0.551 total time=0.0s  
[CV 3/5; 1851/1980] START leaf\_size=38, n\_neighbors=69...  
[CV 2/5; 1844/1980] END leaf\_size=38, n\_neighbors=62;; score=0.603 total time=0.0s  
[CV 3/5; 1844/1980] START leaf\_size=38, n\_neighbors=62...  
[CV 1/5; 1847/1980] END leaf\_size=38, n\_neighbors=65;; score=0.663 total time=0.0s  
[CV 2/5; 1847/1980] START leaf\_size=38, n\_neighbors=65...  
[CV 1/5; 1843/1980] END leaf\_size=38, n\_neighbors=61;; score=0.665 total time=

0.0s  
[CV 2/5; 1843/1980] START leaf\_size=38, n\_neighbors=61...  
[CV 3/5; 1841/1980] END leaf\_size=38, n\_neighbors=59;; score=0.553 total time=0.0s  
[CV 4/5; 1841/1980] START leaf\_size=38, n\_neighbors=59...  
[CV 4/5; 1845/1980] END leaf\_size=38, n\_neighbors=63;; score=0.604 total time=0.0s  
[CV 5/5; 1845/1980] START leaf\_size=38, n\_neighbors=63...  
[CV 4/5; 1848/1980] END leaf\_size=38, n\_neighbors=66;; score=0.574 total time=0.0s  
[CV 5/5; 1848/1980] START leaf\_size=38, n\_neighbors=66...  
[CV 5/5; 1836/1980] END leaf\_size=38, n\_neighbors=54;; score=0.608 total time=0.0s  
[CV 2/5; 1850/1980] END leaf\_size=38, n\_neighbors=68;; score=0.609 total time=0.0s  
[CV 3/5; 1850/1980] START leaf\_size=38, n\_neighbors=68...  
[CV 1/5; 1840/1980] END leaf\_size=38, n\_neighbors=58;; score=0.665 total time=0.0s  
[CV 1/5; 1853/1980] START leaf\_size=38, n\_neighbors=71...  
[CV 3/5; 1844/1980] END leaf\_size=38, n\_neighbors=62;; score=0.555 total time=0.0s  
[CV 4/5; 1844/1980] START leaf\_size=38, n\_neighbors=62...  
[CV 3/5; 1851/1980] END leaf\_size=38, n\_neighbors=69;; score=0.568 total time=0.0s  
[CV 4/5; 1851/1980] START leaf\_size=38, n\_neighbors=69...  
[CV 4/5; 1854/1980] START leaf\_size=38, n\_neighbors=72...  
[CV 2/5; 1847/1980] END leaf\_size=38, n\_neighbors=65;; score=0.616 total time=0.0s  
[CV 3/5; 1847/1980] START leaf\_size=38, n\_neighbors=65...  
[CV 2/5; 1843/1980] END leaf\_size=38, n\_neighbors=61;; score=0.603 total time=0.0s  
[CV 4/5; 1841/1980] END leaf\_size=38, n\_neighbors=59;; score=0.604 total time=0.0s  
[CV 2/5; 1856/1980] START leaf\_size=38, n\_neighbors=74...  
[CV 5/5; 1845/1980] END leaf\_size=38, n\_neighbors=63;; score=0.615 total time=0.0s  
[CV 1/5; 1846/1980] START leaf\_size=38, n\_neighbors=64...  
[CV 5/5; 1848/1980] END leaf\_size=38, n\_neighbors=66;; score=0.613 total time=0.0s  
[CV 1/5; 1849/1980] START leaf\_size=38, n\_neighbors=67...  
[CV 5/5; 1857/1980] START leaf\_size=38, n\_neighbors=75...  
[CV 4/5; 1844/1980] END leaf\_size=38, n\_neighbors=62;; score=0.600 total time=0.0s  
[CV 5/5; 1844/1980] START leaf\_size=38, n\_neighbors=62...  
[CV 4/5; 1851/1980] END leaf\_size=38, n\_neighbors=69;; score=0.582 total time=0.0s  
[CV 5/5; 1851/1980] START leaf\_size=38, n\_neighbors=69...  
[CV 4/5; 1854/1980] END leaf\_size=38, n\_neighbors=72;; score=0.593 total time=

0.0s  
 [CV 5/5; 1854/1980] START leaf\_size=38, n\_neighbors=72...  
 [CV 3/5; 1847/1980] END leaf\_size=38, n\_neighbors=65;; score=0.566 total time=  
 0.0s  
 [CV 4/5; 1847/1980] START leaf\_size=38, n\_neighbors=65...  
 [CV 3/5; 1850/1980] END leaf\_size=38, n\_neighbors=68;; score=0.566 total time=  
 0.0s  
 [CV 4/5; 1850/1980] START leaf\_size=38, n\_neighbors=68...  
 [CV 1/5; 1846/1980] END leaf\_size=38, n\_neighbors=64;; score=0.663 total time=  
 0.0s  
 [CV 2/5; 1846/1980] START leaf\_size=38, n\_neighbors=64...  
 [CV 2/5; 1856/1980] END leaf\_size=38, n\_neighbors=74;; score=0.607 total time=  
 0.0s  
 [CV 3/5; 1856/1980] START leaf\_size=38, n\_neighbors=74...  
 [CV 5/5; 1857/1980] END leaf\_size=38, n\_neighbors=75;; score=0.632 total time=  
 0.0s  
 [CV 1/5; 1858/1980] START leaf\_size=38, n\_neighbors=76...  
 [CV 1/5; 1849/1980] END leaf\_size=38, n\_neighbors=67;; score=0.663 total time=  
 0.0s  
 [CV 2/5; 1849/1980] START leaf\_size=38, n\_neighbors=67...  
 [CV 1/5; 1853/1980] END leaf\_size=38, n\_neighbors=71;; score=0.670 total time=  
 0.1s  
 [CV 2/5; 1853/1980] START leaf\_size=38, n\_neighbors=71...  
 [CV 5/5; 1851/1980] END leaf\_size=38, n\_neighbors=69;; score=0.621 total time=  
 0.0s  
 [CV 1/5; 1852/1980] START leaf\_size=38, n\_neighbors=70...  
 [CV 5/5; 1844/1980] END leaf\_size=38, n\_neighbors=62;; score=0.610 total time=  
 0.0s  
 [CV 5/5; 1854/1980] END leaf\_size=38, n\_neighbors=72;; score=0.613 total time=  
 0.0s  
 [CV 1/5; 1855/1980] START leaf\_size=38, n\_neighbors=73...  
 [CV 4/5; 1847/1980] END leaf\_size=38, n\_neighbors=65;; score=0.591 total time=  
 0.0s  
 [CV 5/5; 1847/1980] START leaf\_size=38, n\_neighbors=65...  
 [CV 3/5; 1859/1980] START leaf\_size=38, n\_neighbors=77...  
 [CV 3/5; 1856/1980] END leaf\_size=38, n\_neighbors=74;; score=0.557 total time=  
 0.0s  
 [CV 4/5; 1856/1980] START leaf\_size=38, n\_neighbors=74...  
 [CV 2/5; 1849/1980] END leaf\_size=38, n\_neighbors=67;; score=0.611 total time=  
 0.0s  
 [CV 4/5; 1850/1980] END leaf\_size=38, n\_neighbors=68;; score=0.576 total time=  
 0.0s  
 [CV 3/5; 1849/1980] START leaf\_size=38, n\_neighbors=67...  
 [CV 5/5; 1850/1980] START leaf\_size=38, n\_neighbors=68...  
 [CV 2/5; 1846/1980] END leaf\_size=38, n\_neighbors=64;; score=0.609 total time=  
 0.0s  
 [CV 3/5; 1846/1980] START leaf\_size=38, n\_neighbors=64...  
 [CV 1/5; 1858/1980] END leaf\_size=38, n\_neighbors=76;; score=0.667 total time=

0.0s  
 [CV 2/5; 1858/1980] START leaf\_size=38, n\_neighbors=76...  
 [CV 1/5; 1852/1980] END leaf\_size=38, n\_neighbors=70;; score=0.663 total time=  
 0.0s  
 [CV 2/5; 1852/1980] START leaf\_size=38, n\_neighbors=70...  
 [CV 5/5; 1847/1980] END leaf\_size=38, n\_neighbors=65;; score=0.621 total time=  
 0.0s  
 [CV 1/5; 1848/1980] START leaf\_size=38, n\_neighbors=66...  
 [CV 1/5; 1855/1980] END leaf\_size=38, n\_neighbors=73;; score=0.663 total time=  
 0.0s  
 [CV 2/5; 1855/1980] START leaf\_size=38, n\_neighbors=73...  
 [CV 3/5; 1859/1980] END leaf\_size=38, n\_neighbors=77;; score=0.562 total time=  
 0.0s  
 [CV 4/5; 1859/1980] START leaf\_size=38, n\_neighbors=77...  
 [CV 2/5; 1853/1980] END leaf\_size=38, n\_neighbors=71;; score=0.616 total time=  
 0.0s  
 [CV 3/5; 1853/1980] START leaf\_size=38, n\_neighbors=71...  
 [CV 4/5; 1856/1980] END leaf\_size=38, n\_neighbors=74;; score=0.591 total time=  
 0.0s  
 [CV 5/5; 1856/1980] START leaf\_size=38, n\_neighbors=74...  
 [CV 3/5; 1849/1980] END leaf\_size=38, n\_neighbors=67;; score=0.564 total time=  
 0.0s  
 [CV 4/5; 1849/1980] START leaf\_size=38, n\_neighbors=67...  
 [CV 5/5; 1850/1980] END leaf\_size=38, n\_neighbors=68;; score=0.615 total time=  
 0.0s  
 [CV 1/5; 1851/1980] START leaf\_size=38, n\_neighbors=69...  
 [CV 3/5; 1846/1980] END leaf\_size=38, n\_neighbors=64;; score=0.562 total time=  
 0.0s  
 [CV 2/5; 1858/1980] END leaf\_size=38, n\_neighbors=76;; score=0.603 total time=  
 0.0s  
 [CV 3/5; 1858/1980] START leaf\_size=38, n\_neighbors=76...  
 [CV 1/5; 1861/1980] START leaf\_size=38, n\_neighbors=79...  
 [CV 2/5; 1852/1980] END leaf\_size=38, n\_neighbors=70;; score=0.607 total time=  
 0.0s  
 [CV 3/5; 1852/1980] START leaf\_size=38, n\_neighbors=70...  
 [CV 1/5; 1848/1980] END leaf\_size=38, n\_neighbors=66;; score=0.663 total time=  
 0.0s  
 [CV 4/5; 1862/1980] START leaf\_size=38, n\_neighbors=80...  
 [CV 2/5; 1855/1980] END leaf\_size=38, n\_neighbors=73;; score=0.605 total time=  
 0.0s  
 [CV 4/5; 1859/1980] END leaf\_size=38, n\_neighbors=77;; score=0.580 total time=  
 0.0s  
 [CV 5/5; 1859/1980] START leaf\_size=38,  
 n\_neighbors=77...[CV 3/5; 1855/1980] START leaf\_size=38,  
 n\_neighbors=73...  
  
 [CV 5/5; 1856/1980] END leaf\_size=38, n\_neighbors=74;; score=0.623 total time=  
 0.0s

[CV 1/5; 1857/1980] START leaf\_size=38, n\_neighbors=75...  
 [CV 4/5; 1849/1980] END leaf\_size=38, n\_neighbors=67;; score=0.587 total time=0.0s  
 [CV 1/5; 1851/1980] END leaf\_size=38, n\_neighbors=69;; score=0.663 total time=0.0s  
 [CV 2/5; 1851/1980] START leaf\_size=38, n\_neighbors=69...  
 [CV 2/5; 1864/1980] START leaf\_size=38, n\_neighbors=82...  
 [CV 3/5; 1858/1980] END leaf\_size=38, n\_neighbors=76;; score=0.557 total time=0.0s  
 [CV 4/5; 1858/1980] START leaf\_size=38, n\_neighbors=76...  
 [CV 3/5; 1853/1980] END leaf\_size=38, n\_neighbors=71;; score=0.562 total time=0.0s  
 [CV 4/5; 1853/1980] START leaf\_size=38, n\_neighbors=71...  
 [CV 1/5; 1861/1980] END leaf\_size=38, n\_neighbors=79;; score=0.659 total time=0.0s  
 [CV 2/5; 1861/1980] START leaf\_size=38, n\_neighbors=79...  
 [CV 3/5; 1852/1980] END leaf\_size=38, n\_neighbors=70;; score=0.559 total time=0.0s  
 [CV 4/5; 1852/1980] START leaf\_size=38, n\_neighbors=70...  
 [CV 4/5; 1862/1980] END leaf\_size=38, n\_neighbors=80;; score=0.584 total time=0.0s  
 [CV 5/5; 1862/1980] START leaf\_size=38, n\_neighbors=80...  
 [CV 5/5; 1859/1980] END leaf\_size=38, n\_neighbors=77;; score=0.617 total time=0.0s  
 [CV 1/5; 1860/1980] START leaf\_size=38, n\_neighbors=78...  
 [CV 3/5; 1855/1980] END leaf\_size=38, n\_neighbors=73;; score=0.566 total time=0.0s  
 [CV 4/5; 1855/1980] START leaf\_size=38, n\_neighbors=73...  
 [CV 1/5; 1857/1980] END leaf\_size=38, n\_neighbors=75;; score=0.667 total time=0.0s  
 [CV 2/5; 1857/1980] START leaf\_size=38, n\_neighbors=75...  
 [CV 2/5; 1864/1980] END leaf\_size=38, n\_neighbors=82;; score=0.600 total time=0.0s  
 [CV 3/5; 1864/1980] START leaf\_size=38, n\_neighbors=82...  
 [CV 2/5; 1851/1980] END leaf\_size=38, n\_neighbors=69;; score=0.609 total time=0.0s  
 [CV 4/5; 1858/1980] END leaf\_size=38, n\_neighbors=76;; score=0.578 total time=0.0s  
 [CV 5/5; 1858/1980] START leaf\_size=38, n\_neighbors=76...  
 [CV 5/5; 1865/1980] START leaf\_size=38, n\_neighbors=83...  
 [CV 4/5; 1852/1980] END leaf\_size=38, n\_neighbors=70;; score=0.589 total time=0.0s  
 [CV 5/5; 1852/1980] START leaf\_size=38, n\_neighbors=70...  
 [CV 2/5; 1861/1980] END leaf\_size=38, n\_neighbors=79;; score=0.598 total time=0.0s  
 [CV 3/5; 1861/1980] START leaf\_size=38, n\_neighbors=79...  
 [CV 4/5; 1853/1980] END leaf\_size=38, n\_neighbors=71;; score=0.587 total time=0.0s

[CV 5/5; 1853/1980] START leaf\_size=38, n\_neighbors=71...  
 [CV 5/5; 1862/1980] END leaf\_size=38, n\_neighbors=80;; score=0.628 total time=0.0s  
 [CV 1/5; 1863/1980] START leaf\_size=38, n\_neighbors=81...  
 [CV 1/5; 1860/1980] END leaf\_size=38, n\_neighbors=78;; score=0.659 total time=0.0s  
 [CV 2/5; 1860/1980] START leaf\_size=38, n\_neighbors=78...  
 [CV 2/5; 1857/1980] END leaf\_size=38, n\_neighbors=75;; score=0.603 total time=0.0s  
 [CV 3/5; 1857/1980] START leaf\_size=38, n\_neighbors=75...  
 [CV 4/5; 1855/1980] END leaf\_size=38, n\_neighbors=73;; score=0.591 total time=0.0s  
 [CV 5/5; 1855/1980] START leaf\_size=38, n\_neighbors=73...  
 [CV 3/5; 1864/1980] END leaf\_size=38, n\_neighbors=82;; score=0.566 total time=0.0s  
 [CV 4/5; 1864/1980] START leaf\_size=38, n\_neighbors=82...  
 [CV 5/5; 1858/1980] END leaf\_size=38, n\_neighbors=76;; score=0.621 total time=0.0s  
 [CV 1/5; 1859/1980] START leaf\_size=38, n\_neighbors=77...  
 [CV 5/5; 1865/1980] END leaf\_size=38, n\_neighbors=83;; score=0.619 total time=0.0s  
 [CV 1/5; 1866/1980] START leaf\_size=38, n\_neighbors=84...  
 [CV 5/5; 1852/1980] END leaf\_size=38, n\_neighbors=70;; score=0.606 total time=0.0s  
 [CV 3/5; 1867/1980] START leaf\_size=38, n\_neighbors=85...  
 [CV 3/5; 1861/1980] END leaf\_size=38, n\_neighbors=79;; score=0.557 total time=0.0s  
 [CV 4/5; 1861/1980] START leaf\_size=38, n\_neighbors=79...  
 [CV 1/5; 1863/1980] END leaf\_size=38, n\_neighbors=81;; score=0.659 total time=0.0s  
 [CV 2/5; 1863/1980] START leaf\_size=38, n\_neighbors=81...  
 [CV 2/5; 1860/1980] END leaf\_size=38, n\_neighbors=78;; score=0.603 total time=0.0s  
 [CV 3/5; 1860/1980] START leaf\_size=38, n\_neighbors=78...  
 [CV 5/5; 1853/1980] END leaf\_size=38, n\_neighbors=71;; score=0.613 total time=0.0s  
 [CV 1/5; 1854/1980] START leaf\_size=38, n\_neighbors=72...  
 [CV 5/5; 1855/1980] END leaf\_size=38, n\_neighbors=73;; score=0.628 total time=0.0s  
 [CV 1/5; 1856/1980] START leaf\_size=38, n\_neighbors=74...  
 [CV 3/5; 1857/1980] END leaf\_size=38, n\_neighbors=75;; score=0.555 total time=0.0s  
 [CV 4/5; 1857/1980] START leaf\_size=38, n\_neighbors=75...  
 [CV 4/5; 1864/1980] END leaf\_size=38, n\_neighbors=82;; score=0.587 total time=0.0s  
 [CV 5/5; 1864/1980] START leaf\_size=38, n\_neighbors=82...  
 [CV 1/5; 1859/1980] END leaf\_size=38, n\_neighbors=77;; score=0.667 total time=0.0s

[CV 2/5; 1859/1980] START leaf\_size=38, n\_neighbors=77...  
 [CV 3/5; 1867/1980] END leaf\_size=38, n\_neighbors=85;; score=0.557 total time=0.0s  
 [CV 4/5; 1867/1980] START leaf\_size=38, n\_neighbors=85...  
 [CV 2/5; 1863/1980] END leaf\_size=38, n\_neighbors=81;; score=0.596 total time=0.0s  
 [CV 3/5; 1863/1980] START leaf\_size=38, n\_neighbors=81...  
 [CV 3/5; 1860/1980] END leaf\_size=38, n\_neighbors=78;; score=0.555 total time=0.0s  
 [CV 4/5; 1860/1980] START leaf\_size=38, n\_neighbors=78...  
 [CV 4/5; 1861/1980] END leaf\_size=38, n\_neighbors=79;; score=0.584 total time=0.0s  
 [CV 5/5; 1861/1980] START leaf\_size=38, n\_neighbors=79...  
 [CV 1/5; 1866/1980] END leaf\_size=38, n\_neighbors=84;; score=0.654 total time=0.0s  
 [CV 2/5; 1866/1980] START leaf\_size=38, n\_neighbors=84...  
 [CV 4/5; 1857/1980] END leaf\_size=38, n\_neighbors=75;; score=0.591 total time=0.0s  
 [CV 5/5; 1864/1980] END leaf\_size=38, n\_neighbors=82;; score=0.630 total time=0.0s  
 [CV 1/5; 1865/1980] START leaf\_size=38, n\_neighbors=83...  
 [CV 1/5; 1856/1980] END leaf\_size=38, n\_neighbors=74;; score=0.661 total time=0.0s  
 [CV 2/5; 1859/1980] END leaf\_size=38, n\_neighbors=77;; score=0.605 total time=0.0s  
 [CV 1/5; 1869/1980] START leaf\_size=38, n\_neighbors=87...  
 [CV 4/5; 1867/1980] END leaf\_size=38, n\_neighbors=85;; score=0.576 total time=0.0s  
 [CV 4/5; 1870/1980] START leaf\_size=38, n\_neighbors=88...  
  
 [CV 5/5; 1867/1980] START leaf\_size=38, n\_neighbors=85...  
 [CV 1/5; 1854/1980] END leaf\_size=38, n\_neighbors=72;; score=0.663 total time=0.0s  
 [CV 2/5; 1854/1980] START leaf\_size=38, n\_neighbors=72...  
 [CV 2/5; 1872/1980] START leaf\_size=38, n\_neighbors=90...  
 [CV 3/5; 1863/1980] END leaf\_size=38, n\_neighbors=81;; score=0.562 total time=0.0s  
 [CV 4/5; 1863/1980] START leaf\_size=38, n\_neighbors=81...  
 [CV 4/5; 1860/1980] END leaf\_size=38, n\_neighbors=78;; score=0.571 total time=0.0s  
 [CV 5/5; 1860/1980] START leaf\_size=38, n\_neighbors=78...  
 [CV 5/5; 1861/1980] END leaf\_size=38, n\_neighbors=79;; score=0.619 total time=0.0s  
 [CV 1/5; 1862/1980] START leaf\_size=38, n\_neighbors=80...  
 [CV 2/5; 1866/1980] END leaf\_size=38, n\_neighbors=84;; score=0.603 total time=0.0s  
 [CV 3/5; 1866/1980] START leaf\_size=38, n\_neighbors=84...  
 [CV 1/5; 1865/1980] END leaf\_size=38, n\_neighbors=83;; score=0.650 total time=

0.0s  
[CV 2/5; 1865/1980] START leaf\_size=38, n\_neighbors=83...  
[CV 1/5; 1869/1980] END leaf\_size=38, n\_neighbors=87;; score=0.650 total time=0.0s  
[CV 2/5; 1869/1980] START leaf\_size=38, n\_neighbors=87...  
[CV 2/5; 1872/1980] END leaf\_size=38, n\_neighbors=90;; score=0.600 total time=0.0s  
[CV 3/5; 1872/1980] START leaf\_size=38, n\_neighbors=90...  
[CV 5/5; 1867/1980] END leaf\_size=38, n\_neighbors=85;; score=0.626 total time=0.0s  
[CV 1/5; 1868/1980] START leaf\_size=38, n\_neighbors=86...  
[CV 4/5; 1863/1980] END leaf\_size=38, n\_neighbors=81;; score=0.587 total time=0.0s  
[CV 5/5; 1863/1980] START leaf\_size=38, n\_neighbors=81...  
[CV 2/5; 1854/1980] END leaf\_size=38, n\_neighbors=72;; score=0.607 total time=0.0s  
[CV 3/5; 1854/1980] START leaf\_size=38, n\_neighbors=72...  
[CV 5/5; 1860/1980] END leaf\_size=38, n\_neighbors=78;; score=0.628 total time=0.0s  
[CV 4/5; 1870/1980] END leaf\_size=38, n\_neighbors=88;; score=0.578 total time=0.0s  
[CV 5/5; 1870/1980] START leaf\_size=38, n\_neighbors=88...  
[CV 5/5; 1873/1980] START leaf\_size=38, n\_neighbors=91...  
[CV 3/5; 1866/1980] END leaf\_size=38, n\_neighbors=84;; score=0.555 total time=0.0s  
[CV 4/5; 1866/1980] START leaf\_size=38, n\_neighbors=84...  
[CV 1/5; 1862/1980] END leaf\_size=38, n\_neighbors=80;; score=0.659 total time=0.0s  
[CV 2/5; 1862/1980] START leaf\_size=38, n\_neighbors=80...  
[CV 2/5; 1865/1980] END leaf\_size=38, n\_neighbors=83;; score=0.596 total time=0.0s  
[CV 3/5; 1865/1980] START leaf\_size=38, n\_neighbors=83...  
[CV 2/5; 1869/1980] END leaf\_size=38, n\_neighbors=87;; score=0.603 total time=0.0s  
[CV 3/5; 1869/1980] START leaf\_size=38, n\_neighbors=87...  
[CV 3/5; 1872/1980] END leaf\_size=38, n\_neighbors=90;; score=0.564 total time=0.0s  
[CV 4/5; 1872/1980] START leaf\_size=38, n\_neighbors=90...  
[CV 1/5; 1868/1980] END leaf\_size=38, n\_neighbors=86;; score=0.648 total time=0.0s  
[CV 2/5; 1868/1980] START leaf\_size=38, n\_neighbors=86...  
[CV 5/5; 1863/1980] END leaf\_size=38, n\_neighbors=81;; score=0.626 total time=0.0s  
[CV 1/5; 1864/1980] START leaf\_size=38, n\_neighbors=82...  
[CV 5/5; 1870/1980] END leaf\_size=38, n\_neighbors=88;; score=0.617 total time=0.0s  
[CV 1/5; 1871/1980] START leaf\_size=38, n\_neighbors=89...  
[CV 5/5; 1873/1980] END leaf\_size=38, n\_neighbors=91;; score=0.623 total time=



0.0s  
 [CV 1/5; 1874/1980] START leaf\_size=38, n\_neighbors=92...  
 [CV 3/5; 1854/1980] END leaf\_size=38, n\_neighbors=72;; score=0.562 total time=  
 0.0s  
 [CV 3/5; 1875/1980] START leaf\_size=38, n\_neighbors=93...  
 [CV 4/5; 1866/1980] END leaf\_size=38, n\_neighbors=84;; score=0.582 total time=  
 0.0s  
 [CV 5/5; 1866/1980] START leaf\_size=38, n\_neighbors=84...  
 [CV 3/5; 1865/1980] END leaf\_size=38, n\_neighbors=83;; score=0.564 total time=  
 0.0s  
 [CV 4/5; 1865/1980] START leaf\_size=38, n\_neighbors=83...  
 [CV 2/5; 1862/1980] END leaf\_size=38, n\_neighbors=80;; score=0.594 total time=  
 0.0s  
 [CV 3/5; 1862/1980] START leaf\_size=38, n\_neighbors=80...  
 [CV 3/5; 1869/1980] END leaf\_size=38, n\_neighbors=87;; score=0.562 total time=  
 0.0s  
 [CV 4/5; 1869/1980] START leaf\_size=38, n\_neighbors=87...  
 [CV 2/5; 1868/1980] END leaf\_size=38, n\_neighbors=86;; score=0.598 total time=  
 0.0s  
 [CV 3/5; 1868/1980] START leaf\_size=38, n\_neighbors=86...  
 [CV 4/5; 1872/1980] END leaf\_size=38, n\_neighbors=90;; score=0.580 total time=  
 0.0s  
 [CV 5/5; 1872/1980] START leaf\_size=38, n\_neighbors=90...  
 [CV 1/5; 1864/1980] END leaf\_size=38, n\_neighbors=82;; score=0.659 total time=  
 0.0s  
 [CV 1/5; 1877/1980] START leaf\_size=38, n\_neighbors=95...  
 [CV 1/5; 1871/1980] END leaf\_size=38, n\_neighbors=89;; score=0.646 total time=  
 0.0s  
 [CV 2/5; 1871/1980] START leaf\_size=38, n\_neighbors=89...  
 [CV 1/5; 1874/1980] END leaf\_size=38, n\_neighbors=92;; score=0.646 total time=  
 0.0s  
 [CV 2/5; 1874/1980] START leaf\_size=38, n\_neighbors=92...  
 [CV 5/5; 1866/1980] END leaf\_size=38, n\_neighbors=84;; score=0.626 total time=  
 0.0s  
 [CV 1/5; 1867/1980] START leaf\_size=38, n\_neighbors=85...  
 [CV 4/5; 1865/1980] END leaf\_size=38, n\_neighbors=83;; score=0.584 total time=  
 0.0s  
 [CV 4/5; 1878/1980] START leaf\_size=38, n\_neighbors=96...  
 [CV 3/5; 1868/1980] END leaf\_size=38, n\_neighbors=86;; score=0.559 total time=  
 0.0s  
 [CV 4/5; 1868/1980] START leaf\_size=38, n\_neighbors=86...  
 [CV 3/5; 1875/1980] END leaf\_size=38, n\_neighbors=93;; score=0.564 total time=  
 0.0s  
 [CV 4/5; 1875/1980] START leaf\_size=38, n\_neighbors=93...  
 [CV 5/5; 1872/1980] END leaf\_size=38, n\_neighbors=90;; score=0.617 total time=  
 0.0s  
 [CV 1/5; 1873/1980] START leaf\_size=38, n\_neighbors=91...  
 [CV 4/5; 1869/1980] END leaf\_size=38, n\_neighbors=87;; score=0.584 total time=

0.0s  
 [CV 5/5; 1869/1980] START leaf\_size=38, n\_neighbors=87...  
 [CV 3/5; 1862/1980] END leaf\_size=38, n\_neighbors=80;; score=0.564 total time=  
 0.0s  
 [CV 2/5; 1880/1980] START leaf\_size=38, n\_neighbors=98...  
 [CV 1/5; 1877/1980] END leaf\_size=38, n\_neighbors=95;; score=0.644 total time=  
 0.0s  
 [CV 2/5; 1877/1980] START leaf\_size=38, n\_neighbors=95...  
 [CV 2/5; 1871/1980] END leaf\_size=38, n\_neighbors=89;; score=0.600 total time=  
 0.0s  
 [CV 3/5; 1871/1980] START leaf\_size=38, n\_neighbors=89...  
 [CV 1/5; 1867/1980] END leaf\_size=38, n\_neighbors=85;; score=0.650 total time=  
 0.0s  
 [CV 2/5; 1867/1980] START leaf\_size=38, n\_neighbors=85...  
 [CV 2/5; 1874/1980] END leaf\_size=38, n\_neighbors=92;; score=0.598 total time=  
 0.0s  
 [CV 3/5; 1874/1980] START leaf\_size=38, n\_neighbors=92...  
 [CV 4/5; 1878/1980] END leaf\_size=38, n\_neighbors=96;; score=0.582 total time=  
 0.0s  
 [CV 5/5; 1878/1980] START leaf\_size=38, n\_neighbors=96...  
 [CV 4/5; 1868/1980] END leaf\_size=38, n\_neighbors=86;; score=0.580 total time=  
 0.0s  
 [CV 5/5; 1868/1980] START leaf\_size=38, n\_neighbors=86...  
 [CV 1/5; 1873/1980] END leaf\_size=38, n\_neighbors=91;; score=0.648 total time=  
 0.0s  
 [CV 2/5; 1873/1980] START leaf\_size=38, n\_neighbors=91...  
 [CV 5/5; 1869/1980] END leaf\_size=38, n\_neighbors=87;; score=0.619 total time=  
 0.0s  
 [CV 1/5; 1870/1980] START leaf\_size=38, n\_neighbors=88...  
 [CV 4/5; 1875/1980] END leaf\_size=38, n\_neighbors=93;; score=0.587 total time=  
 0.0s  
 [CV 5/5; 1875/1980] START leaf\_size=38, n\_neighbors=93...  
 [CV 2/5; 1877/1980] END leaf\_size=38, n\_neighbors=95;; score=0.603 total time=  
 0.0s  
 [CV 3/5; 1877/1980] START leaf\_size=38, n\_neighbors=95...  
 [CV 2/5; 1880/1980] END leaf\_size=38, n\_neighbors=98;; score=0.596 total time=  
 0.0s  
 [CV 3/5; 1880/1980] START leaf\_size=38, n\_neighbors=98...  
 [CV 2/5; 1867/1980] END leaf\_size=38, n\_neighbors=85;; score=0.600 total time=  
 0.0s  
 [CV 5/5; 1881/1980] START leaf\_size=38, n\_neighbors=99...  
 [CV 5/5; 1878/1980] END leaf\_size=38, n\_neighbors=96;; score=0.604 total time=  
 0.0s  
 [CV 1/5; 1879/1980] START leaf\_size=38, n\_neighbors=97...  
 [CV 3/5; 1871/1980] END leaf\_size=38, n\_neighbors=89;; score=0.564 total time=  
 0.0s  
 [CV 4/5; 1871/1980] START leaf\_size=38, n\_neighbors=89...  
 [CV 3/5; 1874/1980] END leaf\_size=38, n\_neighbors=92;; score=0.564 total time=

0.0s  
 [CV 4/5; 1874/1980] START leaf\_size=38, n\_neighbors=92...  
 [CV 5/5; 1868/1980] END leaf\_size=38, n\_neighbors=86;; score=0.623 total time=  
 0.0s  
 [CV 2/5; 1873/1980] END leaf\_size=38, n\_neighbors=91;; score=0.605 total time=  
 0.0s  
 [CV 3/5; 1873/1980] START leaf\_size=38, n\_neighbors=91...  
 [CV 3/5; 1883/1980] START leaf\_size=39, n\_neighbors=2...  
 [CV 1/5; 1870/1980] END leaf\_size=38, n\_neighbors=88;; score=0.652 total time=  
 0.0s  
 [CV 2/5; 1870/1980] START leaf\_size=38, n\_neighbors=88...  
 [CV 3/5; 1877/1980] END leaf\_size=38, n\_neighbors=95;; score=0.566 total time=  
 0.0s  
 [CV 4/5; 1877/1980] START leaf\_size=38, n\_neighbors=95...  
 [CV 5/5; 1875/1980] END leaf\_size=38, n\_neighbors=93;; score=0.617 total time=  
 0.0s  
 [CV 1/5; 1876/1980] START leaf\_size=38, n\_neighbors=94...  
 [CV 3/5; 1883/1980] END leaf\_size=39, n\_neighbors=2;; score=0.512 total time=  
 0.0s  
 [CV 4/5; 1883/1980] START leaf\_size=39, n\_neighbors=2...  
 [CV 1/5; 1879/1980] END leaf\_size=38, n\_neighbors=97;; score=0.641 total time=  
 0.0s  
 [CV 2/5; 1879/1980] START leaf\_size=38, n\_neighbors=97...  
 [CV 3/5; 1880/1980] END leaf\_size=38, n\_neighbors=98;; score=0.562 total time=  
 0.0s  
 [CV 4/5; 1880/1980] START leaf\_size=38, n\_neighbors=98...  
 [CV 5/5; 1881/1980] END leaf\_size=38, n\_neighbors=99;; score=0.610 total time=  
 0.0s  
 [CV 1/5; 1882/1980] START leaf\_size=39, n\_neighbors=1...  
 [CV 4/5; 1874/1980] END leaf\_size=38, n\_neighbors=92;; score=0.582 total time=  
 0.0s  
 [CV 5/5; 1874/1980] START leaf\_size=38, n\_neighbors=92...  
 [CV 3/5; 1873/1980] END leaf\_size=38, n\_neighbors=91;; score=0.564 total time=  
 0.0s  
 [CV 4/5; 1873/1980] START leaf\_size=38, n\_neighbors=91...  
 [CV 4/5; 1871/1980] END leaf\_size=38, n\_neighbors=89;; score=0.591 total time=  
 0.0s  
 [CV 5/5; 1871/1980] START leaf\_size=38, n\_neighbors=89...  
 [CV 4/5; 1883/1980] END leaf\_size=39, n\_neighbors=2;; score=0.571 total time=  
 0.0s  
 [CV 5/5; 1883/1980] START leaf\_size=39, n\_neighbors=2...  
 [CV 4/5; 1877/1980] END leaf\_size=38, n\_neighbors=95;; score=0.584 total time=  
 0.0s  
 [CV 5/5; 1877/1980] START leaf\_size=38, n\_neighbors=95...  
 [CV 2/5; 1870/1980] END leaf\_size=38, n\_neighbors=88;; score=0.600 total time=  
 0.0s  
 [CV 3/5; 1870/1980] START leaf\_size=38, n\_neighbors=88...  
 [CV 1/5; 1882/1980] END leaf\_size=39, n\_neighbors=1;; score=0.516 total time=

0.0s  
 [CV 2/5; 1882/1980] START leaf\_size=39, n\_neighbors=1...  
 [CV 5/5; 1883/1980] END leaf\_size=39, n\_neighbors=2;; score=0.574 total time=  
 0.0s  
 [CV 1/5; 1884/1980] START leaf\_size=39, n\_neighbors=3...  
 [CV 1/5; 1876/1980] END leaf\_size=38, n\_neighbors=94;; score=0.644 total time=  
 0.0s  
 [CV 2/5; 1876/1980] START leaf\_size=38, n\_neighbors=94...  
 [CV 5/5; 1874/1980] END leaf\_size=38, n\_neighbors=92;; score=0.621 total time=  
 0.0s  
 [CV 1/5; 1875/1980] START leaf\_size=38, n\_neighbors=93...  
 [CV 2/5; 1879/1980] END leaf\_size=38, n\_neighbors=97;; score=0.594 total time=  
 0.0s  
 [CV 3/5; 1879/1980] START leaf\_size=38, n\_neighbors=97...  
 [CV 4/5; 1880/1980] END leaf\_size=38, n\_neighbors=98;; score=0.584 total time=  
 0.0s  
 [CV 5/5; 1880/1980] START leaf\_size=38, n\_neighbors=98...  
 [CV 2/5; 1882/1980] END leaf\_size=39, n\_neighbors=1;; score=0.568 total time=  
 0.0s  
 [CV 4/5; 1873/1980] END leaf\_size=38, n\_neighbors=91;; score=0.591 total time=  
 0.0s  
 [CV 3/5; 1882/1980] START leaf\_size=39, n\_neighbors=1...  
 [CV 5/5; 1877/1980] END leaf\_size=38, n\_neighbors=95;; score=0.608 total time=  
 0.0s  
 [CV 1/5; 1878/1980] START leaf\_size=38, n\_neighbors=96...  
 [CV 1/5; 1884/1980] END leaf\_size=39, n\_neighbors=3;; score=0.557 total time=  
 0.0s  
 [CV 2/5; 1884/1980] START leaf\_size=39, n\_neighbors=3...  
 [CV 3/5; 1870/1980] END leaf\_size=38, n\_neighbors=88;; score=0.562 total time=  
 0.0s  
 [CV 1/5; 1885/1980] START leaf\_size=39, n\_neighbors=4...  
 [CV 4/5; 1886/1980] START leaf\_size=39, n\_neighbors=5...  
 [CV 3/5; 1882/1980] END leaf\_size=39, n\_neighbors=1;; score=0.490 total time=  
 0.0s  
 [CV 4/5; 1882/1980] START leaf\_size=39, n\_neighbors=1...  
 [CV 5/5; 1871/1980] END leaf\_size=38, n\_neighbors=89;; score=0.621 total time=  
 0.1s  
 [CV 1/5; 1872/1980] START leaf\_size=38, n\_neighbors=90...  
 [CV 2/5; 1884/1980] END leaf\_size=39, n\_neighbors=3;; score=0.579 total time=  
 0.0s  
 [CV 3/5; 1884/1980] START leaf\_size=39, n\_neighbors=3...  
 [CV 1/5; 1885/1980] END leaf\_size=39, n\_neighbors=4;; score=0.562 total time=  
 0.0s  
 [CV 2/5; 1885/1980] START leaf\_size=39, n\_neighbors=4...  
 [CV 2/5; 1876/1980] END leaf\_size=38, n\_neighbors=94;; score=0.600 total time=  
 0.0s  
 [CV 3/5; 1876/1980] START leaf\_size=38, n\_neighbors=94...  
 [CV 3/5; 1879/1980] END leaf\_size=38, n\_neighbors=97;; score=0.564 total time=

0.0s  
 [CV 4/5; 1879/1980] START leaf\_size=38, n\_neighbors=97...  
 [CV 4/5; 1886/1980] END leaf\_size=39, n\_neighbors=5;; score=0.589 total time=  
 0.0s  
 [CV 5/5; 1886/1980] START leaf\_size=39, n\_neighbors=5...  
 [CV 1/5; 1878/1980] END leaf\_size=38, n\_neighbors=96;; score=0.637 total time=  
 0.0s  
 [CV 2/5; 1878/1980] START leaf\_size=38, n\_neighbors=96...  
 [CV 5/5; 1880/1980] END leaf\_size=38, n\_neighbors=98;; score=0.606 total time=  
 0.0s  
 [CV 1/5; 1881/1980] START leaf\_size=38, n\_neighbors=99...  
 [CV 1/5; 1875/1980] END leaf\_size=38, n\_neighbors=93;; score=0.646 total time=  
 0.0s  
 [CV 2/5; 1875/1980] START leaf\_size=38, n\_neighbors=93...  
 [CV 4/5; 1882/1980] END leaf\_size=39, n\_neighbors=1;; score=0.539 total time=  
 0.0s  
 [CV 5/5; 1882/1980] START leaf\_size=39, n\_neighbors=1...  
 [CV 3/5; 1884/1980] END leaf\_size=39, n\_neighbors=3;; score=0.484 total time=  
 0.0s  
 [CV 4/5; 1884/1980] START leaf\_size=39, n\_neighbors=3...  
 [CV 2/5; 1885/1980] END leaf\_size=39, n\_neighbors=4;; score=0.581 total time=  
 0.0s  
 [CV 3/5; 1885/1980] START leaf\_size=39, n\_neighbors=4...  
 [CV 5/5; 1886/1980] END leaf\_size=39, n\_neighbors=5;; score=0.591 total time=  
 0.0s  
 [CV 1/5; 1887/1980] START leaf\_size=39, n\_neighbors=6...  
 [CV 5/5; 1882/1980] END leaf\_size=39, n\_neighbors=1;; score=0.567 total time=  
 0.0s  
 [CV 1/5; 1883/1980] START leaf\_size=39, n\_neighbors=2...  
 [CV 4/5; 1884/1980] END leaf\_size=39, n\_neighbors=3;; score=0.584 total time=  
 0.0s  
 [CV 5/5; 1884/1980] START leaf\_size=39, n\_neighbors=3...  
 [CV 3/5; 1876/1980] END leaf\_size=38, n\_neighbors=94;; score=0.562 total time=  
 0.0s  
 [CV 4/5; 1876/1980] START leaf\_size=38, n\_neighbors=94...  
 [CV 2/5; 1878/1980] END leaf\_size=38, n\_neighbors=96;; score=0.598 total time=  
 0.0s  
 [CV 3/5; 1878/1980] START leaf\_size=38, n\_neighbors=96...  
 [CV 4/5; 1879/1980] END leaf\_size=38, n\_neighbors=97;; score=0.580 total time=  
 0.0s  
 [CV 5/5; 1879/1980] START leaf\_size=38, n\_neighbors=97...  
 [CV 1/5; 1872/1980] END leaf\_size=38, n\_neighbors=90;; score=0.650 total time=  
 0.1s  
 [CV 2/5; 1875/1980] END leaf\_size=38, n\_neighbors=93;; score=0.603 total time=  
 0.0s  
 [CV 3/5; 1885/1980] END leaf\_size=39, n\_neighbors=4;; score=0.544 total time=  
 0.0s  
 [CV 4/5; 1885/1980] START leaf\_size=39, n\_neighbors=4...

[CV 1/5; 1881/1980] END leaf\_size=38, n\_neighbors=99;; score=0.641 total time=0.0s  
 [CV 2/5; 1881/1980] START leaf\_size=38, n\_neighbors=99...  
 [CV 5/5; 1889/1980] START leaf\_size=39, n\_neighbors=8...  
 [CV 2/5; 1888/1980] START leaf\_size=39, n\_neighbors=7...  
 [CV 1/5; 1883/1980] END leaf\_size=39, n\_neighbors=2;; score=0.566 total time=0.0s  
 [CV 2/5; 1883/1980] START leaf\_size=39, n\_neighbors=2...  
 [CV 1/5; 1887/1980] END leaf\_size=39, n\_neighbors=6;; score=0.570 total time=0.0s  
 [CV 2/5; 1887/1980] START leaf\_size=39, n\_neighbors=6...  
 [CV 5/5; 1884/1980] END leaf\_size=39, n\_neighbors=3;; score=0.593 total time=0.0s  
 [CV 3/5; 1891/1980] START leaf\_size=39, n\_neighbors=10...  
 [CV 4/5; 1885/1980] END leaf\_size=39, n\_neighbors=4;; score=0.580 total time=0.0s  
 [CV 5/5; 1885/1980] START leaf\_size=39, n\_neighbors=4...  
 [CV 3/5; 1878/1980] END leaf\_size=38, n\_neighbors=96;; score=0.564 total time=0.0s  
 [CV 4/5; 1876/1980] END leaf\_size=38, n\_neighbors=94;; score=0.582 total time=0.0s  
 [CV 5/5; 1876/1980] START leaf\_size=38, n\_neighbors=94...  
 [CV 1/5; 1893/1980] START leaf\_size=39, n\_neighbors=12...  
 [CV 2/5; 1883/1980] END leaf\_size=39, n\_neighbors=2;; score=0.579 total time=0.0s  
 [CV 4/5; 1894/1980] START leaf\_size=39, n\_neighbors=13...  
 [CV 5/5; 1879/1980] END leaf\_size=38, n\_neighbors=97;; score=0.602 total time=0.0s  
 [CV 1/5; 1880/1980] START leaf\_size=38, n\_neighbors=98...  
 [CV 2/5; 1887/1980] END leaf\_size=39, n\_neighbors=6;; score=0.546 total time=0.0s  
 [CV 3/5; 1887/1980] START leaf\_size=39, n\_neighbors=6...  
 [CV 2/5; 1888/1980] END leaf\_size=39, n\_neighbors=7;; score=0.559 total time=0.0s  
 [CV 3/5; 1888/1980] START leaf\_size=39, n\_neighbors=7...  
 [CV 5/5; 1889/1980] END leaf\_size=39, n\_neighbors=8;; score=0.608 total time=0.0s  
 [CV 3/5; 1891/1980] END leaf\_size=39, n\_neighbors=10;; score=0.549 total time=0.0s  
 [CV 4/5; 1891/1980] START leaf\_size=39, n\_neighbors=10...  
 [CV 1/5; 1890/1980] START leaf\_size=39, n\_neighbors=9...  
 [CV 5/5; 1885/1980] END leaf\_size=39, n\_neighbors=4;; score=0.593 total time=0.0s  
 [CV 1/5; 1886/1980] START leaf\_size=39, n\_neighbors=5...  
 [CV 2/5; 1881/1980] END leaf\_size=38, n\_neighbors=99;; score=0.598 total time=0.0s  
 [CV 3/5; 1881/1980] START leaf\_size=38, n\_neighbors=99...  
 [CV 1/5; 1893/1980] END leaf\_size=39, n\_neighbors=12;; score=0.648 total time=

0.0s  
 [CV 2/5; 1893/1980] START leaf\_size=39, n\_neighbors=12...  
 [CV 4/5; 1894/1980] END leaf\_size=39, n\_neighbors=13;; score=0.574 total time=  
 0.0s  
 [CV 5/5; 1894/1980] START leaf\_size=39, n\_neighbors=13...  
 [CV 3/5; 1888/1980] END leaf\_size=39, n\_neighbors=7;; score=0.551 total time=  
 0.0s  
 [CV 4/5; 1888/1980] START leaf\_size=39, n\_neighbors=7...  
 [CV 3/5; 1887/1980] END leaf\_size=39, n\_neighbors=6;; score=0.555 total time=  
 0.0s  
 [CV 4/5; 1887/1980] START leaf\_size=39, n\_neighbors=6...  
 [CV 4/5; 1891/1980] END leaf\_size=39, n\_neighbors=10;; score=0.597 total time=  
 0.0s  
 [CV 5/5; 1891/1980] START leaf\_size=39, n\_neighbors=10...  
 [CV 5/5; 1876/1980] END leaf\_size=38, n\_neighbors=94;; score=0.608 total time=  
 0.0s  
 [CV 1/5; 1886/1980] END leaf\_size=39, n\_neighbors=5;; score=0.546 total time=  
 0.0s  
 [CV 2/5; 1886/1980] START leaf\_size=39, n\_neighbors=5...  
 [CV 2/5; 1896/1980] START leaf\_size=39, n\_neighbors=15...  
 [CV 1/5; 1880/1980] END leaf\_size=38, n\_neighbors=98;; score=0.635 total time=  
 0.0s  
 [CV 5/5; 1897/1980] START leaf\_size=39, n\_neighbors=16...  
 [CV 1/5; 1890/1980] END leaf\_size=39, n\_neighbors=9;; score=0.592 total time=  
 0.0s  
 [CV 2/5; 1890/1980] START leaf\_size=39, n\_neighbors=9...  
 [CV 2/5; 1893/1980] END leaf\_size=39, n\_neighbors=12;; score=0.581 total time=  
 0.0s  
 [CV 3/5; 1893/1980] START leaf\_size=39, n\_neighbors=12...  
 [CV 5/5; 1894/1980] END leaf\_size=39, n\_neighbors=13;; score=0.591 total time=  
 0.0s  
 [CV 1/5; 1895/1980] START leaf\_size=39, n\_neighbors=14...  
 [CV 5/5; 1891/1980] END leaf\_size=39, n\_neighbors=10;; score=0.615 total time=  
 0.0s  
 [CV 1/5; 1892/1980] START leaf\_size=39, n\_neighbors=11...  
 [CV 4/5; 1888/1980] END leaf\_size=39, n\_neighbors=7;; score=0.584 total time=  
 0.0s  
 [CV 5/5; 1888/1980] START leaf\_size=39, n\_neighbors=7...  
 [CV 4/5; 1887/1980] END leaf\_size=39, n\_neighbors=6;; score=0.578 total time=  
 0.0s  
 [CV 2/5; 1886/1980] END leaf\_size=39, n\_neighbors=5;; score=0.562 total time=  
 0.0s  
 [CV 5/5; 1887/1980] START leaf\_size=39, n\_neighbors=6...  
 [CV 3/5; 1886/1980] START leaf\_size=39, n\_neighbors=5...  
 [CV 2/5; 1896/1980] END leaf\_size=39, n\_neighbors=15;; score=0.570 total time=  
 0.0s  
 [CV 3/5; 1896/1980] START leaf\_size=39, n\_neighbors=15...  
 [CV 3/5; 1881/1980] END leaf\_size=38, n\_neighbors=99;; score=0.566 total time=

0.0s  
 [CV 4/5; 1881/1980] START leaf\_size=38, n\_neighbors=99...  
 [CV 5/5; 1897/1980] END leaf\_size=39, n\_neighbors=16;; score=0.621 total time=  
 0.0s  
 [CV 1/5; 1898/1980] START leaf\_size=39, n\_neighbors=17...  
 [CV 3/5; 1893/1980] END leaf\_size=39, n\_neighbors=12;; score=0.546 total time=  
 0.0s  
 [CV 4/5; 1893/1980] START leaf\_size=39, n\_neighbors=12...  
 [CV 1/5; 1892/1980] END leaf\_size=39, n\_neighbors=11;; score=0.624 total time=  
 0.0s  
 [CV 2/5; 1892/1980] START leaf\_size=39, n\_neighbors=11...  
 [CV 5/5; 1888/1980] END leaf\_size=39, n\_neighbors=7;; score=0.613 total time=  
 0.0s  
 [CV 1/5; 1889/1980] START leaf\_size=39, n\_neighbors=8...  
 [CV 1/5; 1895/1980] END leaf\_size=39, n\_neighbors=14;; score=0.644 total time=  
 0.0s  
 [CV 2/5; 1895/1980] START leaf\_size=39, n\_neighbors=14...  
 [CV 3/5; 1886/1980] END leaf\_size=39, n\_neighbors=5;; score=0.536 total time=  
 0.0s  
 [CV 3/5; 1896/1980] END leaf\_size=39, n\_neighbors=15;; score=0.557 total time=  
 0.0s  
 [CV 4/5; 1896/1980] START leaf\_size=39, n\_neighbors=15...  
 [CV 2/5; 1890/1980] END leaf\_size=39, n\_neighbors=9;; score=0.570 total time=  
 0.0s  
 [CV 3/5; 1890/1980] START leaf\_size=39, n\_neighbors=9...  
 [CV 3/5; 1899/1980] START leaf\_size=39, n\_neighbors=18...  
 [CV 5/5; 1887/1980] END leaf\_size=39, n\_neighbors=6;; score=0.582 total time=  
 0.0s  
 [CV 1/5; 1888/1980] START leaf\_size=39, n\_neighbors=7...  
 [CV 1/5; 1898/1980] END leaf\_size=39, n\_neighbors=17;; score=0.631 total time=  
 0.0s  
 [CV 2/5; 1898/1980] START leaf\_size=39, n\_neighbors=17...  
 [CV 4/5; 1893/1980] END leaf\_size=39, n\_neighbors=12;; score=0.576 total time=  
 0.0s  
 [CV 5/5; 1893/1980] START leaf\_size=39, n\_neighbors=12...  
 [CV 2/5; 1892/1980] END leaf\_size=39, n\_neighbors=11;; score=0.579 total time=  
 0.0s  
 [CV 3/5; 1892/1980] START leaf\_size=39, n\_neighbors=11...  
 [CV 1/5; 1889/1980] END leaf\_size=39, n\_neighbors=8;; score=0.568 total time=  
 0.0s  
 [CV 2/5; 1889/1980] START leaf\_size=39, n\_neighbors=8...  
 [CV 4/5; 1881/1980] END leaf\_size=38, n\_neighbors=99;; score=0.589 total time=  
 0.0s  
 [CV 2/5; 1895/1980] END leaf\_size=39, n\_neighbors=14;; score=0.572 total time=  
 0.0s  
 [CV 3/5; 1895/1980] START leaf\_size=39, n\_neighbors=14...  
 [CV 3/5; 1899/1980] END leaf\_size=39, n\_neighbors=18;; score=0.555 total time=  
 0.0s



[CV 4/5; 1899/1980] START leaf\_size=39, n\_neighbors=18...  
 [CV 1/5; 1888/1980] END leaf\_size=39, n\_neighbors=7;; score=0.568 total time=0.0s  
 [CV 2/5; 1898/1980] END leaf\_size=39, n\_neighbors=17;; score=0.568 total time=0.0s  
 [CV 3/5; 1898/1980] START leaf\_size=39, n\_neighbors=17...  
 [CV 1/5; 1901/1980] START leaf\_size=39, n\_neighbors=20...  
 [CV 4/5; 1896/1980] END leaf\_size=39, n\_neighbors=15;; score=0.584 total time=0.0s  
 [CV 5/5; 1893/1980] END leaf\_size=39, n\_neighbors=12;; score=0.613 total time=0.0s  
 [CV 1/5; 1894/1980] START leaf\_size=39, n\_neighbors=13...[CV 5/5; 1896/1980] START leaf\_size=39, n\_neighbors=15...  
  
 [CV 3/5; 1890/1980] END leaf\_size=39, n\_neighbors=9;; score=0.559 total time=0.0s  
 [CV 4/5; 1890/1980] START leaf\_size=39, n\_neighbors=9...  
 [CV 4/5; 1902/1980] START leaf\_size=39, n\_neighbors=21...  
 [CV 3/5; 1892/1980] END leaf\_size=39, n\_neighbors=11;; score=0.551 total time=0.0s  
 [CV 4/5; 1892/1980] START leaf\_size=39, n\_neighbors=11...  
 [CV 2/5; 1889/1980] END leaf\_size=39, n\_neighbors=8;; score=0.551 total time=0.0s  
 [CV 3/5; 1889/1980] START leaf\_size=39, n\_neighbors=8...  
 [CV 3/5; 1895/1980] END leaf\_size=39, n\_neighbors=14;; score=0.544 total time=0.0s  
 [CV 4/5; 1895/1980] START leaf\_size=39, n\_neighbors=14...  
 [CV 3/5; 1898/1980] END leaf\_size=39, n\_neighbors=17;; score=0.564 total time=0.0s  
 [CV 4/5; 1898/1980] START leaf\_size=39, n\_neighbors=17...  
 [CV 4/5; 1899/1980] END leaf\_size=39, n\_neighbors=18;; score=0.600 total time=0.0s  
 [CV 5/5; 1899/1980] START leaf\_size=39, n\_neighbors=18...  
 [CV 1/5; 1894/1980] END leaf\_size=39, n\_neighbors=13;; score=0.633 total time=0.0s  
 [CV 2/5; 1894/1980] START leaf\_size=39, n\_neighbors=13...  
 [CV 5/5; 1896/1980] END leaf\_size=39, n\_neighbors=15;; score=0.615 total time=0.0s  
 [CV 1/5; 1897/1980] START leaf\_size=39, n\_neighbors=16...  
 [CV 1/5; 1901/1980] END leaf\_size=39, n\_neighbors=20;; score=0.618 total time=0.0s  
 [CV 2/5; 1901/1980] START leaf\_size=39, n\_neighbors=20...  
 [CV 4/5; 1890/1980] END leaf\_size=39, n\_neighbors=9;; score=0.589 total time=0.0s  
 [CV 3/5; 1889/1980] END leaf\_size=39, n\_neighbors=8;; score=0.551 total time=0.0s  
 [CV 1/5; 1897/1980] END leaf\_size=39, n\_neighbors=16;; score=0.637 total time=

0.0s  
 [CV 4/5; 1902/1980] END leaf\_size=39, n\_neighbors=21;; score=0.606 total time=0.0s  
 [CV 2/5; 1894/1980] END leaf\_size=39, n\_neighbors=13;; score=0.570 total time=0.0s  
 [CV 4/5; 1898/1980] END leaf\_size=39, n\_neighbors=17;; score=0.580 total time=0.0s  
 [CV 2/5; 1901/1980] END leaf\_size=39, n\_neighbors=20;; score=0.583 total time=0.0s  
 [CV 4/5; 1889/1980] START leaf\_size=39, n\_neighbors=8...  
 [CV 2/5; 1897/1980] START leaf\_size=39, n\_neighbors=16...  
 [CV 4/5; 1895/1980] END leaf\_size=39, n\_neighbors=14;; score=0.584 total time=0.0s  
 [CV 5/5; 1902/1980] START leaf\_size=39, n\_neighbors=21...  
  
 [CV 3/5; 1894/1980] START leaf\_size=39, n\_neighbors=13...  
 [CV 5/5; 1898/1980] START leaf\_size=39, n\_neighbors=17...  
 [CV 3/5; 1901/1980] START leaf\_size=39, n\_neighbors=20...  
 [CV 5/5; 1890/1980] START leaf\_size=39, n\_neighbors=9...  
 [CV 5/5; 1895/1980] START leaf\_size=39, n\_neighbors=14...  
 [CV 5/5; 1899/1980] END leaf\_size=39, n\_neighbors=18;; score=0.617 total time=0.0s  
 [CV 1/5; 1900/1980] START leaf\_size=39, n\_neighbors=19...  
 [CV 4/5; 1892/1980] END leaf\_size=39, n\_neighbors=11;; score=0.589 total time=0.0s  
 [CV 5/5; 1892/1980] START leaf\_size=39, n\_neighbors=11...  
 [CV 2/5; 1897/1980] END leaf\_size=39, n\_neighbors=16;; score=0.575 total time=0.0s  
 [CV 3/5; 1894/1980] END leaf\_size=39, n\_neighbors=13;; score=0.553 total time=0.0s  
 [CV 3/5; 1897/1980] START leaf\_size=39, n\_neighbors=16...  
 [CV 4/5; 1889/1980] END leaf\_size=39, n\_neighbors=8;; score=0.617 total time=0.0s  
 [CV 5/5; 1895/1980] END leaf\_size=39, n\_neighbors=14;; score=0.606 total time=0.0s  
 [CV 2/5; 1904/1980] START leaf\_size=39, n\_neighbors=23...  
  
 [CV 1/5; 1896/1980] START leaf\_size=39, n\_neighbors=15...  
 [CV 5/5; 1890/1980] END leaf\_size=39, n\_neighbors=9;; score=0.613 total time=0.0s  
 [CV 1/5; 1891/1980] START leaf\_size=39, n\_neighbors=10...  
 [CV 5/5; 1905/1980] START leaf\_size=39, n\_neighbors=24...  
 [CV 5/5; 1902/1980] END leaf\_size=39, n\_neighbors=21;; score=0.621 total time=0.0s  
 [CV 1/5; 1903/1980] START leaf\_size=39, n\_neighbors=22...  
 [CV 5/5; 1898/1980] END leaf\_size=39, n\_neighbors=17;; score=0.610 total time=0.0s  
 [CV 1/5; 1899/1980] START leaf\_size=39, n\_neighbors=18...

[CV 1/5; 1900/1980] END leaf\_size=39, n\_neighbors=19;; score=0.637 total time=0.0s  
 [CV 2/5; 1900/1980] START leaf\_size=39, n\_neighbors=19...  
 [CV 3/5; 1897/1980] END leaf\_size=39, n\_neighbors=16;; score=0.557 total time=0.0s  
 [CV 4/5; 1897/1980] START leaf\_size=39, n\_neighbors=16...  
 [CV 1/5; 1891/1980] END leaf\_size=39, n\_neighbors=10;; score=0.611 total time=0.0s  
 [CV 2/5; 1891/1980] START leaf\_size=39, n\_neighbors=10...  
 [CV 2/5; 1904/1980] END leaf\_size=39, n\_neighbors=23;; score=0.583 total time=0.0s  
 [CV 3/5; 1904/1980] START leaf\_size=39, n\_neighbors=23...  
 [CV 1/5; 1896/1980] END leaf\_size=39, n\_neighbors=15;; score=0.637 total time=0.0s  
 [CV 5/5; 1892/1980] END leaf\_size=39, n\_neighbors=11;; score=0.606 total time=0.0s  
 [CV 1/5; 1903/1980] END leaf\_size=39, n\_neighbors=22;; score=0.622 total time=0.0s  
 [CV 2/5; 1903/1980] START leaf\_size=39, n\_neighbors=22...  
 [CV 5/5; 1905/1980] END leaf\_size=39, n\_neighbors=24;; score=0.647 total time=0.0s  
 [CV 3/5; 1901/1980] END leaf\_size=39, n\_neighbors=20;; score=0.553 total time=0.1s  
 [CV 4/5; 1901/1980] START leaf\_size=39, n\_neighbors=20...  
 [CV 1/5; 1906/1980] START leaf\_size=39, n\_neighbors=25...  
 [CV 3/5; 1907/1980] START leaf\_size=39, n\_neighbors=26...  
 [CV 1/5; 1909/1980] START leaf\_size=39, n\_neighbors=28...  
 [CV 1/5; 1899/1980] END leaf\_size=39, n\_neighbors=18;; score=0.635 total time=0.0s  
 [CV 2/5; 1900/1980] END leaf\_size=39, n\_neighbors=19;; score=0.583 total time= 0.0s  
  
 [CV 3/5; 1900/1980] START leaf\_size=39, n\_neighbors=19...  
 [CV 2/5; 1899/1980] START leaf\_size=39, n\_neighbors=18...  
 [CV 4/5; 1897/1980] END leaf\_size=39, n\_neighbors=16;; score=0.584 total time=0.0s  
 [CV 2/5; 1891/1980] END leaf\_size=39, n\_neighbors=10;; score=0.568 total time=0.0s  
 [CV 4/5; 1910/1980] START leaf\_size=39, n\_neighbors=29...  
 [CV 2/5; 1912/1980] START leaf\_size=39, n\_neighbors=31...  
 [CV 3/5; 1904/1980] END leaf\_size=39, n\_neighbors=23;; score=0.557 total time= 0.0s  
 [CV 4/5; 1904/1980] START leaf\_size=39, n\_neighbors=23...  
  
 [CV 2/5; 1903/1980] END leaf\_size=39, n\_neighbors=22;; score=0.587 total time=0.0s  
 [CV 3/5; 1903/1980] START leaf\_size=39, n\_neighbors=22...  
 [CV 3/5; 1900/1980] END leaf\_size=39, n\_neighbors=19;; score=0.551 total time=0.0s

[CV 4/5; 1900/1980] START leaf\_size=39, n\_neighbors=19...  
 [CV 1/5; 1906/1980] END leaf\_size=39, n\_neighbors=25;; score=0.646 total time=0.0s  
 [CV 2/5; 1906/1980] START leaf\_size=39, n\_neighbors=25...  
 [CV 2/5; 1899/1980] END leaf\_size=39, n\_neighbors=18;; score=0.590 total time=0.0s  
 [CV 1/5; 1909/1980] END leaf\_size=39, n\_neighbors=28;; score=0.650 total time=0.0s  
 [CV 2/5; 1909/1980] START leaf\_size=39, n\_neighbors=28...  
 [CV 4/5; 1904/1980] END leaf\_size=39, n\_neighbors=23;; score=0.600 total time=0.0s  
 [CV 5/5; 1904/1980] START leaf\_size=39, n\_neighbors=23...  
 [CV 2/5; 1912/1980] END leaf\_size=39, n\_neighbors=31;; score=0.603 total time=0.0s  
 [CV 3/5; 1912/1980] START leaf\_size=39, n\_neighbors=31...  
 [CV 5/5; 1913/1980] START leaf\_size=39, n\_neighbors=32...  
 [CV 4/5; 1910/1980] END leaf\_size=39, n\_neighbors=29;; score=0.600 total time=0.0s  
 [CV 5/5; 1910/1980] START leaf\_size=39, n\_neighbors=29...  
 [CV 4/5; 1901/1980] END leaf\_size=39, n\_neighbors=20;; score=0.600 total time=0.0s  
 [CV 5/5; 1901/1980] START leaf\_size=39, n\_neighbors=20...  
 [CV 3/5; 1907/1980] END leaf\_size=39, n\_neighbors=26;; score=0.564 total time=0.0s  
 [CV 4/5; 1907/1980] START leaf\_size=39, n\_neighbors=26...  
 [CV 3/5; 1903/1980] END leaf\_size=39, n\_neighbors=22;; score=0.555 total time=0.0s  
 [CV 4/5; 1903/1980] START leaf\_size=39, n\_neighbors=22...  
 [CV 4/5; 1900/1980] END leaf\_size=39, n\_neighbors=19;; score=0.589 total time=0.0s  
 [CV 5/5; 1900/1980] START leaf\_size=39, n\_neighbors=19...  
 [CV 3/5; 1912/1980] END leaf\_size=39, n\_neighbors=31;; score=0.570 total time=0.0s  
 [CV 4/5; 1912/1980] START leaf\_size=39, n\_neighbors=31...  
 [CV 5/5; 1904/1980] END leaf\_size=39, n\_neighbors=23;; score=0.643 total time=0.0s  
 [CV 1/5; 1905/1980] START leaf\_size=39, n\_neighbors=24...  
 [CV 5/5; 1913/1980] END leaf\_size=39, n\_neighbors=32;; score=0.628 total time=0.0s  
 [CV 1/5; 1914/1980] START leaf\_size=39, n\_neighbors=33...  
 [CV 5/5; 1901/1980] END leaf\_size=39, n\_neighbors=20;; score=0.632 total time=0.0s  
 [CV 1/5; 1902/1980] START leaf\_size=39, n\_neighbors=21...  
 [CV 5/5; 1910/1980] END leaf\_size=39, n\_neighbors=29;; score=0.639 total time=0.0s  
 [CV 1/5; 1911/1980] START leaf\_size=39, n\_neighbors=30...  
 [CV 2/5; 1906/1980] END leaf\_size=39, n\_neighbors=25;; score=0.598 total time=0.0s

[CV 3/5; 1906/1980] START leaf\_size=39, n\_neighbors=25...  
 [CV 4/5; 1903/1980] END leaf\_size=39, n\_neighbors=22;; score=0.600 total time=0.0s  
 [CV 5/5; 1903/1980] START leaf\_size=39, n\_neighbors=22...  
 [CV 2/5; 1909/1980] END leaf\_size=39, n\_neighbors=28;; score=0.598 total time=0.0s  
 [CV 4/5; 1907/1980] END leaf\_size=39, n\_neighbors=26;; score=0.593 total time=0.0s  
 [CV 3/5; 1909/1980] START leaf\_size=39, n\_neighbors=28...  
 [CV 5/5; 1907/1980] START leaf\_size=39, n\_neighbors=26...  
 [CV 5/5; 1900/1980] END leaf\_size=39, n\_neighbors=19;; score=0.626 total time=0.0s  
 [CV 3/5; 1915/1980] START leaf\_size=39, n\_neighbors=34...  
 [CV 4/5; 1912/1980] END leaf\_size=39, n\_neighbors=31;; score=0.595 total time=0.0s  
 [CV 5/5; 1912/1980] START leaf\_size=39, n\_neighbors=31...  
 [CV 1/5; 1905/1980] END leaf\_size=39, n\_neighbors=24;; score=0.646 total time=0.0s  
 [CV 2/5; 1905/1980] START leaf\_size=39, n\_neighbors=24...  
 [CV 1/5; 1914/1980] END leaf\_size=39, n\_neighbors=33;; score=0.646 total time=0.0s  
 [CV 2/5; 1914/1980] START leaf\_size=39, n\_neighbors=33...  
 [CV 1/5; 1902/1980] END leaf\_size=39, n\_neighbors=21;; score=0.626 total time=0.0s  
 [CV 2/5; 1902/1980] START leaf\_size=39, n\_neighbors=21...  
 [CV 3/5; 1909/1980] END leaf\_size=39, n\_neighbors=28;; score=0.568 total time=0.0s  
 [CV 4/5; 1909/1980] START leaf\_size=39, n\_neighbors=28...  
 [CV 5/5; 1903/1980] END leaf\_size=39, n\_neighbors=22;; score=0.628 total time=0.0s  
 [CV 1/5; 1904/1980] START leaf\_size=39, n\_neighbors=23...  
 [CV 3/5; 1906/1980] END leaf\_size=39, n\_neighbors=25;; score=0.557 total time=0.0s  
 [CV 4/5; 1906/1980] START leaf\_size=39, n\_neighbors=25...  
 [CV 1/5; 1911/1980] END leaf\_size=39, n\_neighbors=30;; score=0.639 total time=0.0s  
 [CV 2/5; 1911/1980] START leaf\_size=39, n\_neighbors=30...  
 [CV 5/5; 1907/1980] END leaf\_size=39, n\_neighbors=26;; score=0.628 total time=0.0s  
 [CV 1/5; 1908/1980] START leaf\_size=39, n\_neighbors=27...  
 [CV 5/5; 1912/1980] END leaf\_size=39, n\_neighbors=31;; score=0.634 total time=0.0s  
 [CV 1/5; 1913/1980] START leaf\_size=39, n\_neighbors=32...  
 [CV 2/5; 1905/1980] END leaf\_size=39, n\_neighbors=24;; score=0.596 total time=0.0s  
 [CV 3/5; 1905/1980] START leaf\_size=39, n\_neighbors=24...  
 [CV 3/5; 1915/1980] END leaf\_size=39, n\_neighbors=34;; score=0.577 total time=0.0s

[CV 4/5; 1915/1980] START leaf\_size=39, n\_neighbors=34...  
 [CV 2/5; 1914/1980] END leaf\_size=39, n\_neighbors=33;; score=0.607 total time=0.0s  
 [CV 3/5; 1914/1980] START leaf\_size=39, n\_neighbors=33...  
 [CV 2/5; 1902/1980] END leaf\_size=39, n\_neighbors=21;; score=0.581 total time=0.0s  
 [CV 1/5; 1904/1980] END leaf\_size=39, n\_neighbors=23;; score=0.646 total time=0.0s  
 [CV 3/5; 1902/1980] START leaf\_size=39, n\_neighbors=21...  
 [CV 2/5; 1911/1980] END leaf\_size=39, n\_neighbors=30;; score=0.607 total time=0.0s  
 [CV 3/5; 1911/1980] START leaf\_size=39, n\_neighbors=30...  
 [CV 3/5; 1905/1980] END leaf\_size=39, n\_neighbors=24;; score=0.564 total time=0.0s  
 [CV 4/5; 1905/1980] START leaf\_size=39, n\_neighbors=24...  
 [CV 1/5; 1913/1980] END leaf\_size=39, n\_neighbors=32;; score=0.639 total time=0.0s  
 [CV 2/5; 1913/1980] START leaf\_size=39, n\_neighbors=32...  
 [CV 1/5; 1917/1980] START leaf\_size=39, n\_neighbors=36...  
 [CV 4/5; 1906/1980] END leaf\_size=39, n\_neighbors=25;; score=0.587 total time=0.0s  
 [CV 5/5; 1906/1980] START leaf\_size=39, n\_neighbors=25...  
 [CV 3/5; 1914/1980] END leaf\_size=39, n\_neighbors=33;; score=0.570 total time=0.0s  
 [CV 4/5; 1914/1980] START leaf\_size=39, n\_neighbors=33...  
 [CV 4/5; 1915/1980] END leaf\_size=39, n\_neighbors=34;; score=0.597 total time=0.0s  
 [CV 5/5; 1915/1980] START leaf\_size=39, n\_neighbors=34...  
 [CV 1/5; 1908/1980] END leaf\_size=39, n\_neighbors=27;; score=0.650 total time=0.0s  
 [CV 2/5; 1908/1980] START leaf\_size=39, n\_neighbors=27...  
 [CV 4/5; 1909/1980] END leaf\_size=39, n\_neighbors=28;; score=0.597 total time=0.1s  
 [CV 5/5; 1909/1980] START leaf\_size=39, n\_neighbors=28...  
 [CV 4/5; 1905/1980] END leaf\_size=39, n\_neighbors=24;; score=0.597 total time=0.0s  
 [CV 2/5; 1913/1980] END leaf\_size=39, n\_neighbors=32;; score=0.605 total time=0.0s  
 [CV 3/5; 1913/1980] START leaf\_size=39, n\_neighbors=32...  
 [CV 3/5; 1911/1980] END leaf\_size=39, n\_neighbors=30;; score=0.579 total time=0.0s  
 [CV 4/5; 1911/1980] START leaf\_size=39, n\_neighbors=30...  
 [CV 4/5; 1918/1980] START leaf\_size=39, n\_neighbors=37...  
 [CV 3/5; 1902/1980] END leaf\_size=39, n\_neighbors=21;; score=0.559 total time=0.0s  
 [CV 2/5; 1920/1980] START leaf\_size=39, n\_neighbors=39...  
 [CV 1/5; 1917/1980] END leaf\_size=39, n\_neighbors=36;; score=0.644 total time=0.0s

[CV 2/5; 1917/1980] START leaf\_size=39, n\_neighbors=36...  
 [CV 5/5; 1906/1980] END leaf\_size=39, n\_neighbors=25;; score=0.647 total time=0.0s  
 [CV 1/5; 1907/1980] START leaf\_size=39, n\_neighbors=26...  
 [CV 5/5; 1909/1980] END leaf\_size=39, n\_neighbors=28;; score=0.641 total time=0.0s  
 [CV 1/5; 1910/1980] START leaf\_size=39, n\_neighbors=29...  
 [CV 5/5; 1915/1980] END leaf\_size=39, n\_neighbors=34;; score=0.634 total time=0.0s  
 [CV 2/5; 1908/1980] END leaf\_size=39, n\_neighbors=27;; score=0.594 total time= 0.0s  
  
 [CV 3/5; 1908/1980] START leaf\_size=39, n\_neighbors=27...  
 [CV 1/5; 1916/1980] START leaf\_size=39, n\_neighbors=35...  
 [CV 4/5; 1914/1980] END leaf\_size=39, n\_neighbors=33;; score=0.597 total time=0.0s  
 [CV 5/5; 1914/1980] START leaf\_size=39, n\_neighbors=33...  
 [CV 3/5; 1913/1980] END leaf\_size=39, n\_neighbors=32;; score=0.577 total time=0.0s  
 [CV 4/5; 1913/1980] START leaf\_size=39, n\_neighbors=32...  
 [CV 4/5; 1918/1980] END leaf\_size=39, n\_neighbors=37;; score=0.610 total time=0.0s  
 [CV 5/5; 1918/1980] START leaf\_size=39, n\_neighbors=37...  
 [CV 4/5; 1911/1980] END leaf\_size=39, n\_neighbors=30;; score=0.595 total time=0.0s  
 [CV 5/5; 1911/1980] START leaf\_size=39, n\_neighbors=30...  
 [CV 2/5; 1920/1980] END leaf\_size=39, n\_neighbors=39;; score=0.609 total time=0.0s  
 [CV 3/5; 1920/1980] START leaf\_size=39, n\_neighbors=39...  
 [CV 2/5; 1917/1980] END leaf\_size=39, n\_neighbors=36;; score=0.616 total time=0.0s  
 [CV 3/5; 1917/1980] START leaf\_size=39, n\_neighbors=36...  
 [CV 1/5; 1910/1980] END leaf\_size=39, n\_neighbors=29;; score=0.646 total time=0.0s  
 [CV 2/5; 1910/1980] START leaf\_size=39, n\_neighbors=29...  
 [CV 4/5; 1913/1980] END leaf\_size=39, n\_neighbors=32;; score=0.593 total time=0.0s  
 [CV 1/5; 1916/1980] END leaf\_size=39, n\_neighbors=35;; score=0.650 total time=0.0s  
 [CV 2/5; 1916/1980] START leaf\_size=39, n\_neighbors=35...  
 [CV 3/5; 1908/1980] END leaf\_size=39, n\_neighbors=27;; score=0.568 total time=0.0s  
 [CV 4/5; 1908/1980] START leaf\_size=39, n\_neighbors=27...  
 [CV 5/5; 1921/1980] START leaf\_size=39, n\_neighbors=40...  
 [CV 5/5; 1911/1980] END leaf\_size=39, n\_neighbors=30;; score=0.632 total time=0.0s  
 [CV 1/5; 1912/1980] START leaf\_size=39, n\_neighbors=31...  
 [CV 5/5; 1918/1980] END leaf\_size=39, n\_neighbors=37;; score=0.628 total time=0.0s

[CV 1/5; 1919/1980] START leaf\_size=39, n\_neighbors=38...  
 [CV 5/5; 1914/1980] END leaf\_size=39, n\_neighbors=33;; score=0.630 total time=0.0s  
 [CV 1/5; 1915/1980] START leaf\_size=39, n\_neighbors=34...  
 [CV 3/5; 1920/1980] END leaf\_size=39, n\_neighbors=39;; score=0.575 total time=0.0s  
 [CV 3/5; 1917/1980] END leaf\_size=39, n\_neighbors=36;; score=0.566 total time=0.0s  
 [CV 4/5; 1920/1980] START leaf\_size=39, n\_neighbors=39...  
 [CV 4/5; 1917/1980] START leaf\_size=39, n\_neighbors=36...  
 [CV 2/5; 1910/1980] END leaf\_size=39, n\_neighbors=29;; score=0.600 total time=0.0s  
 [CV 3/5; 1910/1980] START leaf\_size=39, n\_neighbors=29...  
 [CV 2/5; 1916/1980] END leaf\_size=39, n\_neighbors=35;; score=0.607 total time=0.0s  
 [CV 3/5; 1916/1980] START leaf\_size=39, n\_neighbors=35...  
 [CV 1/5; 1912/1980] END leaf\_size=39, n\_neighbors=31;; score=0.644 total time=0.0s  
 [CV 1/5; 1907/1980] END leaf\_size=39, n\_neighbors=26;; score=0.639 total time=0.1s  
 [CV 2/5; 1907/1980] START leaf\_size=39, n\_neighbors=26...  
 [CV 4/5; 1908/1980] END leaf\_size=39, n\_neighbors=27;; score=0.593 total time=0.0s  
 [CV 5/5; 1908/1980] START leaf\_size=39, n\_neighbors=27...  
 [CV 5/5; 1921/1980] END leaf\_size=39, n\_neighbors=40;; score=0.617 total time=0.0s  
 [CV 1/5; 1922/1980] START leaf\_size=39, n\_neighbors=41...  
 [CV 3/5; 1923/1980] START leaf\_size=39, n\_neighbors=42...  
 [CV 1/5; 1919/1980] END leaf\_size=39, n\_neighbors=38;; score=0.652 total time=0.0s  
 [CV 2/5; 1919/1980] START leaf\_size=39, n\_neighbors=38...  
 [CV 1/5; 1915/1980] END leaf\_size=39, n\_neighbors=34;; score=0.644 total time=0.0s  
 [CV 2/5; 1915/1980] START leaf\_size=39, n\_neighbors=34...  
 [CV 4/5; 1917/1980] END leaf\_size=39, n\_neighbors=36;; score=0.600 total time=0.0s  
 [CV 5/5; 1917/1980] START leaf\_size=39, n\_neighbors=36...  
 [CV 3/5; 1910/1980] END leaf\_size=39, n\_neighbors=29;; score=0.577 total time=0.0s  
 [CV 4/5; 1920/1980] END leaf\_size=39, n\_neighbors=39;; score=0.602 total time=0.0s  
 [CV 5/5; 1920/1980] START leaf\_size=39, n\_neighbors=39...  
 [CV 1/5; 1925/1980] START leaf\_size=39, n\_neighbors=44...  
 [CV 3/5; 1923/1980] END leaf\_size=39, n\_neighbors=42;; score=0.564 total time=0.0s  
 [CV 4/5; 1923/1980] START leaf\_size=39, n\_neighbors=42...  
 [CV 3/5; 1916/1980] END leaf\_size=39, n\_neighbors=35;; score=0.572 total time=0.0s



[CV 4/5; 1916/1980] START leaf\_size=39, n\_neighbors=35...  
 [CV 1/5; 1922/1980] END leaf\_size=39, n\_neighbors=41;; score=0.665 total time=0.0s  
 [CV 2/5; 1922/1980] START leaf\_size=39, n\_neighbors=41...  
 [CV 2/5; 1919/1980] END leaf\_size=39, n\_neighbors=38;; score=0.613 total time=0.0s  
 [CV 3/5; 1919/1980] START leaf\_size=39, n\_neighbors=38...  
 [CV 5/5; 1908/1980] END leaf\_size=39, n\_neighbors=27;; score=0.630 total time=0.0s  
 [CV 2/5; 1907/1980] END leaf\_size=39, n\_neighbors=26;; score=0.600 total time=0.0s  
 [CV 4/5; 1926/1980] START leaf\_size=39, n\_neighbors=45...  
 [CV 2/5; 1928/1980] START leaf\_size=39, n\_neighbors=47...[CV 2/5; 1915/1980] END leaf\_size=39, n\_neighbors=34;; score=0.600 total time= 0.0s  
  
 [CV 5/5; 1917/1980] END leaf\_size=39, n\_neighbors=36;; score=0.628 total time=0.0s  
 [CV 1/5; 1918/1980] START leaf\_size=39, n\_neighbors=37...  
 [CV 5/5; 1929/1980] START leaf\_size=39, n\_neighbors=48...  
 [CV 1/5; 1925/1980] END leaf\_size=39, n\_neighbors=44;; score=0.667 total time=0.0s  
 [CV 2/5; 1925/1980] START leaf\_size=39, n\_neighbors=44...  
 [CV 4/5; 1923/1980] END leaf\_size=39, n\_neighbors=42;; score=0.608 total time=0.0s  
 [CV 5/5; 1923/1980] START leaf\_size=39, n\_neighbors=42...  
 [CV 5/5; 1920/1980] END leaf\_size=39, n\_neighbors=39;; score=0.636 total time=0.0s  
 [CV 1/5; 1921/1980] START leaf\_size=39, n\_neighbors=40...  
 [CV 2/5; 1922/1980] END leaf\_size=39, n\_neighbors=41;; score=0.618 total time=0.0s  
 [CV 3/5; 1922/1980] START leaf\_size=39, n\_neighbors=41...  
 [CV 4/5; 1916/1980] END leaf\_size=39, n\_neighbors=35;; score=0.604 total time=0.0s  
 [CV 5/5; 1916/1980] START leaf\_size=39, n\_neighbors=35...  
 [CV 3/5; 1919/1980] END leaf\_size=39, n\_neighbors=38;; score=0.566 total time=0.0s  
 [CV 4/5; 1919/1980] START leaf\_size=39, n\_neighbors=38...  
 [CV 5/5; 1923/1980] END leaf\_size=39, n\_neighbors=42;; score=0.621 total time=0.0s  
 [CV 1/5; 1924/1980] START leaf\_size=39, n\_neighbors=43...  
 [CV 2/5; 1925/1980] END leaf\_size=39, n\_neighbors=44;; score=0.613 total time=0.0s  
 [CV 3/5; 1925/1980] START leaf\_size=39, n\_neighbors=44...  
 [CV 5/5; 1929/1980] END leaf\_size=39, n\_neighbors=48;; score=0.630 total time=0.0s  
 [CV 1/5; 1930/1980] START leaf\_size=39, n\_neighbors=49...  
 [CV 1/5; 1918/1980] END leaf\_size=39, n\_neighbors=37;; score=0.657 total time=

```

0.0s
[CV 2/5; 1918/1980] START leaf_size=39, n_neighbors=37...
[CV 3/5; 1922/1980] END leaf_size=39, n_neighbors=41;; score=0.568 total time=
0.0s
[CV 4/5; 1922/1980] START leaf_size=39, n_neighbors=41...
[CV 4/5; 1926/1980] END leaf_size=39, n_neighbors=45;; score=0.600 total time=
0.0s
[CV 5/5; 1926/1980] START leaf_size=39, n_neighbors=45...
[CV 2/5; 1928/1980] END leaf_size=39, n_neighbors=47;; score=0.611 total time=
0.0s
[CV 3/5; 1928/1980] START leaf_size=39, n_neighbors=47...
[CV 1/5; 1921/1980] END leaf_size=39, n_neighbors=40;; score=0.661 total time=
0.0s
[CV 2/5; 1921/1980] START leaf_size=39, n_neighbors=40...
[CV 4/5; 1919/1980] END leaf_size=39, n_neighbors=38;; score=0.602 total time=
0.0s
[CV 5/5; 1919/1980] START leaf_size=39, n_neighbors=38...
[CV 5/5; 1916/1980] END leaf_size=39, n_neighbors=35;; score=0.639 total time=
0.0s
[CV 3/5; 1931/1980] START leaf_size=39, n_neighbors=50...
[CV 1/5; 1924/1980] END leaf_size=39, n_neighbors=43;; score=0.674 total time=
0.0s
[CV 2/5; 1924/1980] START leaf_size=39, n_neighbors=43...
[CV 3/5; 1925/1980] END leaf_size=39, n_neighbors=44;; score=0.570 total time=
0.0s
[CV 4/5; 1925/1980] START leaf_size=39, n_neighbors=44...
[CV 1/5; 1930/1980] END leaf_size=39, n_neighbors=49;; score=0.676 total time=
0.0s
[CV 2/5; 1930/1980] START leaf_size=39, n_neighbors=49...
[CV 4/5; 1922/1980] END leaf_size=39, n_neighbors=41;; score=0.610 total time=
0.0s[CV 2/5; 1918/1980] END leaf_size=39, n_neighbors=37;; score=0.607 total
time= 0.0s
[CV 3/5; 1918/1980] START leaf_size=39, n_neighbors=37...
[CV 5/5; 1919/1980] END leaf_size=39, n_neighbors=38;; score=0.634 total time=
0.0s
[CV 1/5; 1920/1980] START leaf_size=39, n_neighbors=39...

[CV 5/5; 1922/1980] START leaf_size=39,
n_neighbors=41...[CV 2/5; 1921/1980] END leaf_size=39,
n_neighbors=40;; score=0.611 total time= 0.0s

[CV 3/5; 1921/1980] START leaf_size=39, n_neighbors=40...
[CV 3/5; 1928/1980] END leaf_size=39, n_neighbors=47;; score=0.572 total time=
0.0s
[CV 4/5; 1928/1980] START leaf_size=39, n_neighbors=47...
[CV 3/5; 1931/1980] END leaf_size=39, n_neighbors=50;; score=0.557 total time=
0.0s
[CV 4/5; 1931/1980] START leaf_size=39, n_neighbors=50...

```

[CV 5/5; 1926/1980] END leaf\_size=39, n\_neighbors=45;; score=0.619 total time=0.0s  
 [CV 1/5; 1927/1980] START leaf\_size=39, n\_neighbors=46...  
 [CV 2/5; 1924/1980] END leaf\_size=39, n\_neighbors=43;; score=0.616 total time=0.0s  
 [CV 3/5; 1924/1980] START leaf\_size=39, n\_neighbors=43...  
 [CV 4/5; 1925/1980] END leaf\_size=39, n\_neighbors=44;; score=0.597 total time=0.0s  
 [CV 5/5; 1925/1980] START leaf\_size=39, n\_neighbors=44...  
 [CV 2/5; 1930/1980] END leaf\_size=39, n\_neighbors=49;; score=0.622 total time=0.0s  
 [CV 3/5; 1930/1980] START leaf\_size=39, n\_neighbors=49...  
 [CV 1/5; 1920/1980] END leaf\_size=39, n\_neighbors=39;; score=0.654 total time=0.0s  
 [CV 3/5; 1921/1980] END leaf\_size=39, n\_neighbors=40;; score=0.572 total time=0.0s  
 [CV 4/5; 1921/1980] START leaf\_size=39, n\_neighbors=40...  
 [CV 3/5; 1918/1980] END leaf\_size=39, n\_neighbors=37;; score=0.568 total time=0.0s  
 [CV 1/5; 1933/1980] START leaf\_size=39, n\_neighbors=52...  
 [CV 3/5; 1924/1980] END leaf\_size=39, n\_neighbors=43;; score=0.566 total time=0.0s  
 [CV 4/5; 1924/1980] START leaf\_size=39, n\_neighbors=43...  
 [CV 5/5; 1922/1980] END leaf\_size=39, n\_neighbors=41;; score=0.619 total time=0.0s  
 [CV 4/5; 1931/1980] END leaf\_size=39, n\_neighbors=50;; score=0.597 total time=0.0s  
 [CV 5/5; 1931/1980] START leaf\_size=39, n\_neighbors=50...  
  
 [CV 1/5; 1923/1980] START leaf\_size=39, n\_neighbors=42...  
 [CV 4/5; 1928/1980] END leaf\_size=39, n\_neighbors=47;; score=0.589 total time=0.0s  
 [CV 5/5; 1928/1980] START leaf\_size=39, n\_neighbors=47...  
 [CV 4/5; 1934/1980] START leaf\_size=39, n\_neighbors=53...  
 [CV 1/5; 1927/1980] END leaf\_size=39, n\_neighbors=46;; score=0.672 total time=0.0s  
 [CV 2/5; 1927/1980] START leaf\_size=39, n\_neighbors=46...  
 [CV 5/5; 1925/1980] END leaf\_size=39, n\_neighbors=44;; score=0.615 total time=0.0s  
 [CV 1/5; 1926/1980] START leaf\_size=39, n\_neighbors=45...  
 [CV 3/5; 1930/1980] END leaf\_size=39, n\_neighbors=49;; score=0.568 total time=0.0s  
 [CV 4/5; 1930/1980] START leaf\_size=39, n\_neighbors=49...  
 [CV 4/5; 1924/1980] END leaf\_size=39, n\_neighbors=43;; score=0.600 total time=0.0s  
 [CV 4/5; 1921/1980] END leaf\_size=39, n\_neighbors=40;; score=0.595 total time=0.0s  
 [CV 5/5; 1924/1980] START leaf\_size=39, n\_neighbors=43...  
 [CV 2/5; 1936/1980] START leaf\_size=39, n\_neighbors=55...

[CV 1/5; 1933/1980] END leaf\_size=39, n\_neighbors=52;; score=0.676 total time=0.0s  
 [CV 2/5; 1933/1980] START leaf\_size=39, n\_neighbors=52...  
 [CV 5/5; 1931/1980] END leaf\_size=39, n\_neighbors=50;; score=0.619 total time=0.0s  
 [CV 1/5; 1932/1980] START leaf\_size=39, n\_neighbors=51...  
 [CV 4/5; 1934/1980] END leaf\_size=39, n\_neighbors=53;; score=0.600 total time=0.0s  
 [CV 5/5; 1934/1980] START leaf\_size=39, n\_neighbors=53...  
 [CV 5/5; 1928/1980] END leaf\_size=39, n\_neighbors=47;; score=0.623 total time=0.0s  
 [CV 1/5; 1929/1980] START leaf\_size=39, n\_neighbors=48...  
 [CV 2/5; 1927/1980] END leaf\_size=39, n\_neighbors=46;; score=0.616 total time=0.0s  
 [CV 3/5; 1927/1980] START leaf\_size=39, n\_neighbors=46...  
 [CV 1/5; 1926/1980] END leaf\_size=39, n\_neighbors=45;; score=0.678 total time=0.0s  
 [CV 1/5; 1923/1980] END leaf\_size=39, n\_neighbors=42;; score=0.667 total time= 0.0s  
  
 [CV 4/5; 1930/1980] END leaf\_size=39, n\_neighbors=49;; score=0.593 total time=0.0s  
 [CV 2/5; 1923/1980] START leaf\_size=39, n\_neighbors=42...  
  
 [CV 2/5; 1926/1980] START leaf\_size=39, n\_neighbors=45...  
 [CV 5/5; 1930/1980] START leaf\_size=39, n\_neighbors=49...  
 [CV 5/5; 1924/1980] END leaf\_size=39, n\_neighbors=43;; score=0.615 total time=0.0s  
 [CV 5/5; 1937/1980] START leaf\_size=39, n\_neighbors=56...  
 [CV 2/5; 1936/1980] END leaf\_size=39, n\_neighbors=55;; score=0.618 total time=0.0s  
 [CV 3/5; 1936/1980] START leaf\_size=39, n\_neighbors=55...  
 [CV 1/5; 1932/1980] END leaf\_size=39, n\_neighbors=51;; score=0.680 total time=0.0s  
 [CV 2/5; 1932/1980] START leaf\_size=39, n\_neighbors=51...  
 [CV 5/5; 1934/1980] END leaf\_size=39, n\_neighbors=53;; score=0.613 total time=0.0s  
 [CV 1/5; 1935/1980] START leaf\_size=39, n\_neighbors=54...  
 [CV 2/5; 1933/1980] END leaf\_size=39, n\_neighbors=52;; score=0.611 total time=0.0s  
 [CV 3/5; 1933/1980] START leaf\_size=39, n\_neighbors=52...  
 [CV 2/5; 1926/1980] END leaf\_size=39, n\_neighbors=45;; score=0.611 total time=0.0s  
 [CV 3/5; 1926/1980] START leaf\_size=39, n\_neighbors=45...  
 [CV 3/5; 1927/1980] END leaf\_size=39, n\_neighbors=46;; score=0.572 total time=0.0s  
 [CV 4/5; 1927/1980] START leaf\_size=39, n\_neighbors=46...  
 [CV 5/5; 1930/1980] END leaf\_size=39, n\_neighbors=49;; score=0.623 total time=0.0s

[CV 1/5; 1931/1980] START leaf\_size=39, n\_neighbors=50...  
 [CV 2/5; 1923/1980] END leaf\_size=39, n\_neighbors=42;; score=0.618 total time=0.0s  
 [CV 1/5; 1929/1980] END leaf\_size=39, n\_neighbors=48;; score=0.672 total time=0.0s  
 [CV 2/5; 1929/1980] START leaf\_size=39, n\_neighbors=48...  
 [CV 3/5; 1939/1980] START leaf\_size=39, n\_neighbors=58...  
 [CV 5/5; 1937/1980] END leaf\_size=39, n\_neighbors=56;; score=0.613 total time=0.0s  
 [CV 1/5; 1938/1980] START leaf\_size=39, n\_neighbors=57...  
 [CV 3/5; 1936/1980] END leaf\_size=39, n\_neighbors=55;; score=0.564 total time=0.0s  
 [CV 4/5; 1936/1980] START leaf\_size=39, n\_neighbors=55...  
 [CV 2/5; 1932/1980] END leaf\_size=39, n\_neighbors=51;; score=0.618 total time=0.0s  
 [CV 3/5; 1932/1980] START leaf\_size=39, n\_neighbors=51...  
 [CV 1/5; 1935/1980] END leaf\_size=39, n\_neighbors=54;; score=0.667 total time=0.0s  
 [CV 2/5; 1935/1980] START leaf\_size=39, n\_neighbors=54...  
 [CV 3/5; 1926/1980] END leaf\_size=39, n\_neighbors=45;; score=0.575 total time=0.0s  
 [CV 1/5; 1941/1980] START leaf\_size=39, n\_neighbors=60...  
 [CV 1/5; 1931/1980] END leaf\_size=39, n\_neighbors=50;; score=0.678 total time=0.0s  
 [CV 2/5; 1931/1980] START leaf\_size=39, n\_neighbors=50...  
 [CV 3/5; 1933/1980] END leaf\_size=39, n\_neighbors=52;; score=0.566 total time=0.0s  
 [CV 4/5; 1933/1980] START leaf\_size=39, n\_neighbors=52...  
 [CV 1/5; 1938/1980] END leaf\_size=39, n\_neighbors=57;; score=0.665 total time=0.0s  
 [CV 2/5; 1938/1980] START leaf\_size=39, n\_neighbors=57...  
 [CV 3/5; 1939/1980] END leaf\_size=39, n\_neighbors=58;; score=0.549 total time=0.0s  
 [CV 4/5; 1939/1980] START leaf\_size=39, n\_neighbors=58...  
 [CV 2/5; 1929/1980] END leaf\_size=39, n\_neighbors=48;; score=0.609 total time=0.0s  
 [CV 3/5; 1929/1980] START leaf\_size=39, n\_neighbors=48...  
 [CV 4/5; 1936/1980] END leaf\_size=39, n\_neighbors=55;; score=0.593 total time=0.0s  
 [CV 5/5; 1936/1980] START leaf\_size=39, n\_neighbors=55...  
 [CV 4/5; 1927/1980] END leaf\_size=39, n\_neighbors=46;; score=0.597 total time=0.0s  
 [CV 5/5; 1927/1980] START leaf\_size=39, n\_neighbors=46...  
 [CV 3/5; 1932/1980] END leaf\_size=39, n\_neighbors=51;; score=0.566 total time=0.0s  
 [CV 4/5; 1932/1980] START leaf\_size=39, n\_neighbors=51...  
 [CV 2/5; 1935/1980] END leaf\_size=39, n\_neighbors=54;; score=0.618 total time=0.0s  
 [CV 2/5; 1931/1980] END leaf\_size=39, n\_neighbors=50;; score=0.603 total

time= 0.0s

[CV 3/5; 1935/1980] START leaf\_size=39, n\_neighbors=54...  
[CV 1/5; 1941/1980] END leaf\_size=39, n\_neighbors=60;; score=0.667 total time=0.0s  
[CV 2/5; 1941/1980] START leaf\_size=39, n\_neighbors=60...  
[CV 4/5; 1942/1980] START leaf\_size=39, n\_neighbors=61...  
[CV 2/5; 1938/1980] END leaf\_size=39, n\_neighbors=57;; score=0.616 total time=0.0s  
[CV 3/5; 1938/1980] START leaf\_size=39, n\_neighbors=57...  
[CV 4/5; 1939/1980] END leaf\_size=39, n\_neighbors=58;; score=0.595 total time=0.0s  
[CV 5/5; 1939/1980] START leaf\_size=39, n\_neighbors=58...  
[CV 3/5; 1929/1980] END leaf\_size=39, n\_neighbors=48;; score=0.562 total time=0.0s  
[CV 4/5; 1929/1980] START leaf\_size=39, n\_neighbors=48...  
[CV 4/5; 1933/1980] END leaf\_size=39, n\_neighbors=52;; score=0.597 total time=0.0s  
[CV 5/5; 1933/1980] START leaf\_size=39, n\_neighbors=52...  
[CV 5/5; 1927/1980] END leaf\_size=39, n\_neighbors=46;; score=0.619 total time=0.0s  
[CV 1/5; 1928/1980] START leaf\_size=39, n\_neighbors=47...  
[CV 5/5; 1936/1980] END leaf\_size=39, n\_neighbors=55;; score=0.608 total time=0.0s  
[CV 1/5; 1937/1980] START leaf\_size=39, n\_neighbors=56...  
[CV 4/5; 1932/1980] END leaf\_size=39, n\_neighbors=51;; score=0.602 total time=0.0s  
[CV 5/5; 1932/1980] START leaf\_size=39, n\_neighbors=51...  
[CV 2/5; 1941/1980] END leaf\_size=39, n\_neighbors=60;; score=0.605 total time=0.0s  
[CV 3/5; 1941/1980] START leaf\_size=39, n\_neighbors=60...  
[CV 3/5; 1938/1980] END leaf\_size=39, n\_neighbors=57;; score=0.559 total time=0.0s  
[CV 4/5; 1938/1980] START leaf\_size=39, n\_neighbors=57...  
[CV 3/5; 1935/1980] END leaf\_size=39, n\_neighbors=54;; score=0.562 total time=0.0s  
[CV 4/5; 1942/1980] END leaf\_size=39, n\_neighbors=61;; score=0.604 total time=0.0s  
[CV 5/5; 1942/1980] START leaf\_size=39, n\_neighbors=61...  
  
[CV 4/5; 1935/1980] START leaf\_size=39, n\_neighbors=54...  
[CV 5/5; 1939/1980] END leaf\_size=39, n\_neighbors=58;; score=0.610 total time=0.0s  
[CV 1/5; 1940/1980] START leaf\_size=39, n\_neighbors=59...  
[CV 5/5; 1932/1980] END leaf\_size=39, n\_neighbors=51;; score=0.621 total time=0.0s  
[CV 2/5; 1944/1980] START leaf\_size=39, n\_neighbors=63...  
[CV 5/5; 1942/1980] END leaf\_size=39, n\_neighbors=61;; score=0.606 total time=0.0s

[CV 3/5; 1941/1980] END leaf\_size=39, n\_neighbors=60;; score=0.553 total time=0.0s  
 [CV 1/5; 1943/1980] START leaf\_size=39, n\_neighbors=62...  
 [CV 4/5; 1941/1980] START leaf\_size=39, n\_neighbors=60...  
 [CV 4/5; 1938/1980] END leaf\_size=39, n\_neighbors=57;; score=0.597 total time=0.0s  
 [CV 5/5; 1938/1980] START leaf\_size=39, n\_neighbors=57...  
 [CV 4/5; 1935/1980] END leaf\_size=39, n\_neighbors=54;; score=0.595 total time=0.0s  
 [CV 5/5; 1935/1980] START leaf\_size=39, n\_neighbors=54...  
 [CV 1/5; 1940/1980] END leaf\_size=39, n\_neighbors=59;; score=0.670 total time=0.0s  
 [CV 2/5; 1940/1980] START leaf\_size=39, n\_neighbors=59...  
 [CV 4/5; 1929/1980] END leaf\_size=39, n\_neighbors=48;; score=0.589 total time=0.1s  
 [CV 5/5; 1945/1980] START leaf\_size=39, n\_neighbors=64...  
 [CV 2/5; 1944/1980] END leaf\_size=39, n\_neighbors=63;; score=0.609 total time=0.0s  
 [CV 1/5; 1943/1980] END leaf\_size=39, n\_neighbors=62;; score=0.663 total time= 0.0s  
 [CV 4/5; 1941/1980] END leaf\_size=39, n\_neighbors=60;; score=0.602 total time=0.0s  
  
 [CV 2/5; 1943/1980] START leaf\_size=39, n\_neighbors=62...  
 [CV 3/5; 1944/1980] START leaf\_size=39, n\_neighbors=63...  
 [CV 5/5; 1941/1980] START leaf\_size=39, n\_neighbors=60...  
  
 [CV 5/5; 1938/1980] END leaf\_size=39, n\_neighbors=57;; score=0.610 total time=0.0s  
 [CV 1/5; 1939/1980] START leaf\_size=39, n\_neighbors=58...  
 [CV 1/5; 1937/1980] END leaf\_size=39, n\_neighbors=56;; score=0.670 total time=0.1s  
 [CV 2/5; 1937/1980] START leaf\_size=39, n\_neighbors=56...  
 [CV 2/5; 1940/1980] END leaf\_size=39, n\_neighbors=59;; score=0.609 total time=0.0s  
 [CV 3/5; 1940/1980] START leaf\_size=39, n\_neighbors=59...  
 [CV 5/5; 1933/1980] END leaf\_size=39, n\_neighbors=52;; score=0.619 total time=0.1s  
 [CV 1/5; 1934/1980] START leaf\_size=39, n\_neighbors=53...  
 [CV 5/5; 1935/1980] END leaf\_size=39, n\_neighbors=54;; score=0.608 total time=0.0s  
 [CV 1/5; 1936/1980] START leaf\_size=39, n\_neighbors=55...  
 [CV 5/5; 1941/1980] END leaf\_size=39, n\_neighbors=60;; score=0.604 total time=0.0s  
 [CV 1/5; 1942/1980] START leaf\_size=39, n\_neighbors=61...  
 [CV 2/5; 1943/1980] END leaf\_size=39, n\_neighbors=62;; score=0.603 total time=0.0s  
 [CV 3/5; 1943/1980] START leaf\_size=39, n\_neighbors=62...

[CV 3/5; 1944/1980] END leaf\_size=39, n\_neighbors=63;; score=0.562 total time=0.0s  
 [CV 4/5; 1944/1980] START leaf\_size=39, n\_neighbors=63...  
 [CV 5/5; 1945/1980] END leaf\_size=39, n\_neighbors=64;; score=0.613 total time=0.0s  
 [CV 1/5; 1946/1980] START leaf\_size=39, n\_neighbors=65...  
 [CV 1/5; 1939/1980] END leaf\_size=39, n\_neighbors=58;; score=0.665 total time=0.0s  
 [CV 2/5; 1939/1980] START leaf\_size=39, n\_neighbors=58...  
 [CV 3/5; 1940/1980] END leaf\_size=39, n\_neighbors=59;; score=0.553 total time=0.0s  
 [CV 4/5; 1940/1980] START leaf\_size=39, n\_neighbors=59...  
 [CV 2/5; 1937/1980] END leaf\_size=39, n\_neighbors=56;; score=0.609 total time=0.0s  
 [CV 3/5; 1937/1980] START leaf\_size=39, n\_neighbors=56...  
 [CV 1/5; 1936/1980] END leaf\_size=39, n\_neighbors=55;; score=0.667 total time=0.0s  
 [CV 3/5; 1943/1980] END leaf\_size=39, n\_neighbors=62;; score=0.555 total time=0.0s  
 [CV 4/5; 1943/1980] START leaf\_size=39, n\_neighbors=62...  
 [CV 3/5; 1947/1980] START leaf\_size=39, n\_neighbors=66...  
 [CV 1/5; 1942/1980] END leaf\_size=39, n\_neighbors=61;; score=0.665 total time=0.0s  
 [CV 2/5; 1942/1980] START leaf\_size=39, n\_neighbors=61...  
 [CV 1/5; 1928/1980] END leaf\_size=39, n\_neighbors=47;; score=0.676 total time=0.1s  
 [CV 4/5; 1944/1980] END leaf\_size=39, n\_neighbors=63;; score=0.604 total time=0.0s  
 [CV 5/5; 1944/1980] START leaf\_size=39, n\_neighbors=63...  
 [CV 1/5; 1946/1980] END leaf\_size=39, n\_neighbors=65;; score=0.663 total time=0.0s  
 [CV 2/5; 1946/1980] START leaf\_size=39, n\_neighbors=65...  
 [CV 2/5; 1939/1980] END leaf\_size=39, n\_neighbors=58;; score=0.609 total time=0.0s  
 [CV 1/5; 1949/1980] START leaf\_size=39, n\_neighbors=68...  
 [CV 1/5; 1934/1980] END leaf\_size=39, n\_neighbors=53;; score=0.678 total time=0.1s  
 [CV 2/5; 1934/1980] START leaf\_size=39, n\_neighbors=53...  
 [CV 4/5; 1950/1980] START leaf\_size=39, n\_neighbors=69...  
 [CV 4/5; 1940/1980] END leaf\_size=39, n\_neighbors=59;; score=0.604 total time=0.0s  
 [CV 5/5; 1940/1980] START leaf\_size=39, n\_neighbors=59...  
 [CV 4/5; 1943/1980] END leaf\_size=39, n\_neighbors=62;; score=0.600 total time=0.0s  
 [CV 5/5; 1943/1980] START leaf\_size=39, n\_neighbors=62...  
 [CV 2/5; 1942/1980] END leaf\_size=39, n\_neighbors=61;; score=0.603 total time=0.0s  
 [CV 3/5; 1942/1980] START leaf\_size=39, n\_neighbors=61...



[CV 3/5; 1947/1980] END leaf\_size=39, n\_neighbors=66;; score=0.566 total time=0.0s  
 [CV 4/5; 1947/1980] START leaf\_size=39, n\_neighbors=66...  
 [CV 3/5; 1937/1980] END leaf\_size=39, n\_neighbors=56;; score=0.551 total time=0.0s  
 [CV 4/5; 1937/1980] START leaf\_size=39, n\_neighbors=56...  
 [CV 5/5; 1944/1980] END leaf\_size=39, n\_neighbors=63;; score=0.615 total time=0.0s  
 [CV 1/5; 1945/1980] START leaf\_size=39, n\_neighbors=64...  
 [CV 2/5; 1946/1980] END leaf\_size=39, n\_neighbors=65;; score=0.616 total time=0.0s  
 [CV 3/5; 1946/1980] START leaf\_size=39, n\_neighbors=65...  
 [CV 1/5; 1949/1980] END leaf\_size=39, n\_neighbors=68;; score=0.667 total time=0.0s  
 [CV 2/5; 1949/1980] START leaf\_size=39, n\_neighbors=68...  
 [CV 4/5; 1950/1980] END leaf\_size=39, n\_neighbors=69;; score=0.582 total time=0.0s  
 [CV 5/5; 1950/1980] START leaf\_size=39, n\_neighbors=69...  
 [CV 2/5; 1934/1980] END leaf\_size=39, n\_neighbors=53;; score=0.611 total time=0.0s  
 [CV 3/5; 1934/1980] START leaf\_size=39, n\_neighbors=53...  
 [CV 5/5; 1940/1980] END leaf\_size=39, n\_neighbors=59;; score=0.610 total time=0.0s  
 [CV 2/5; 1952/1980] START leaf\_size=39, n\_neighbors=71...  
 [CV 5/5; 1943/1980] END leaf\_size=39, n\_neighbors=62;; score=0.610 total time=0.0s  
 [CV 1/5; 1944/1980] START leaf\_size=39, n\_neighbors=63...  
 [CV 3/5; 1942/1980] END leaf\_size=39, n\_neighbors=61;; score=0.557 total time=0.0s  
 [CV 4/5; 1947/1980] END leaf\_size=39, n\_neighbors=66;; score=0.574 total time=0.0s  
 [CV 5/5; 1947/1980] START leaf\_size=39, n\_neighbors=66...  
 [CV 5/5; 1953/1980] START leaf\_size=39, n\_neighbors=72...  
 [CV 4/5; 1937/1980] END leaf\_size=39, n\_neighbors=56;; score=0.591 total time=0.0s  
 [CV 3/5; 1955/1980] START leaf\_size=39, n\_neighbors=74...  
 [CV 3/5; 1946/1980] END leaf\_size=39, n\_neighbors=65;; score=0.566 total time=0.0s  
 [CV 4/5; 1946/1980] START leaf\_size=39, n\_neighbors=65...  
 [CV 1/5; 1945/1980] END leaf\_size=39, n\_neighbors=64;; score=0.663 total time=0.0s  
 [CV 2/5; 1945/1980] START leaf\_size=39, n\_neighbors=64...  
 [CV 2/5; 1949/1980] END leaf\_size=39, n\_neighbors=68;; score=0.609 total time=0.0s  
 [CV 3/5; 1949/1980] START leaf\_size=39, n\_neighbors=68...  
 [CV 3/5; 1934/1980] END leaf\_size=39, n\_neighbors=53;; score=0.572 total time=0.0s  
 [CV 1/5; 1957/1980] START leaf\_size=39, n\_neighbors=76...

[CV 2/5; 1952/1980] END leaf\_size=39, n\_neighbors=71;; score=0.616 total time=0.0s  
 [CV 3/5; 1952/1980] START leaf\_size=39, n\_neighbors=71...  
 [CV 1/5; 1944/1980] END leaf\_size=39, n\_neighbors=63;; score=0.665 total time=0.0s  
 [CV 5/5; 1947/1980] END leaf\_size=39, n\_neighbors=66;; score=0.613 total time=0.0s  
 [CV 1/5; 1948/1980] START leaf\_size=39, n\_neighbors=67...  
 [CV 4/5; 1958/1980] START leaf\_size=39, n\_neighbors=77...  
 [CV 5/5; 1950/1980] END leaf\_size=39, n\_neighbors=69;; score=0.621 total time=0.0s  
 [CV 1/5; 1951/1980] START leaf\_size=39, n\_neighbors=70...  
 [CV 5/5; 1953/1980] END leaf\_size=39, n\_neighbors=72;; score=0.613 total time=0.0s  
 [CV 1/5; 1954/1980] START leaf\_size=39, n\_neighbors=73...  
 [CV 4/5; 1946/1980] END leaf\_size=39, n\_neighbors=65;; score=0.591 total time=0.0s  
 [CV 5/5; 1946/1980] START leaf\_size=39, n\_neighbors=65...  
 [CV 3/5; 1955/1980] END leaf\_size=39, n\_neighbors=74;; score=0.557 total time=0.0s  
 [CV 4/5; 1955/1980] START leaf\_size=39, n\_neighbors=74...  
 [CV 2/5; 1945/1980] END leaf\_size=39, n\_neighbors=64;; score=0.609 total time=0.0s  
 [CV 3/5; 1945/1980] START leaf\_size=39, n\_neighbors=64...  
 [CV 3/5; 1949/1980] END leaf\_size=39, n\_neighbors=68;; score=0.566 total time=0.0s  
 [CV 4/5; 1949/1980] START leaf\_size=39, n\_neighbors=68...  
 [CV 1/5; 1957/1980] END leaf\_size=39, n\_neighbors=76;; score=0.667 total time=0.0s  
 [CV 2/5; 1957/1980] START leaf\_size=39, n\_neighbors=76...  
 [CV 1/5; 1948/1980] END leaf\_size=39, n\_neighbors=67;; score=0.663 total time=0.0s  
 [CV 2/5; 1948/1980] START leaf\_size=39, n\_neighbors=67...  
 [CV 4/5; 1958/1980] END leaf\_size=39, n\_neighbors=77;; score=0.580 total time=0.0s  
 [CV 5/5; 1958/1980] START leaf\_size=39, n\_neighbors=77...  
 [CV 1/5; 1954/1980] END leaf\_size=39, n\_neighbors=73;; score=0.663 total time=0.0s  
 [CV 2/5; 1954/1980] START leaf\_size=39, n\_neighbors=73...  
 [CV 3/5; 1952/1980] END leaf\_size=39, n\_neighbors=71;; score=0.562 total time=0.0s  
 [CV 5/5; 1946/1980] END leaf\_size=39, n\_neighbors=65;; score=0.621 total time= 0.0s  
 [CV 1/5; 1947/1980] START leaf\_size=39, n\_neighbors=66...  
  
 [CV 4/5; 1952/1980] START leaf\_size=39, n\_neighbors=71...  
 [CV 3/5; 1945/1980] END leaf\_size=39, n\_neighbors=64;; score=0.562 total time=0.0s  
 [CV 4/5; 1945/1980] START leaf\_size=39, n\_neighbors=64...

[CV 4/5; 1955/1980] END leaf\_size=39, n\_neighbors=74;; score=0.591 total time=0.0s  
 [CV 5/5; 1955/1980] START leaf\_size=39, n\_neighbors=74...  
 [CV 2/5; 1957/1980] END leaf\_size=39, n\_neighbors=76;; score=0.603 total time=0.0s  
 [CV 3/5; 1957/1980] START leaf\_size=39, n\_neighbors=76...  
 [CV 4/5; 1949/1980] END leaf\_size=39, n\_neighbors=68;; score=0.576 total time=0.0s  
 [CV 5/5; 1949/1980] START leaf\_size=39, n\_neighbors=68...  
 [CV 2/5; 1948/1980] END leaf\_size=39, n\_neighbors=67;; score=0.611 total time=0.0s  
 [CV 3/5; 1948/1980] START leaf\_size=39, n\_neighbors=67...  
 [CV 5/5; 1958/1980] END leaf\_size=39, n\_neighbors=77;; score=0.617 total time=0.0s  
 [CV 1/5; 1959/1980] START leaf\_size=39, n\_neighbors=78...  
 [CV 2/5; 1954/1980] END leaf\_size=39, n\_neighbors=73;; score=0.605 total time=0.0s  
 [CV 3/5; 1954/1980] START leaf\_size=39, n\_neighbors=73...  
 [CV 1/5; 1951/1980] END leaf\_size=39, n\_neighbors=70;; score=0.663 total time=0.1s  
 [CV 2/5; 1951/1980] START leaf\_size=39, n\_neighbors=70...  
 [CV 1/5; 1947/1980] END leaf\_size=39, n\_neighbors=66;; score=0.663 total time=0.0s  
 [CV 2/5; 1947/1980] START leaf\_size=39, n\_neighbors=66...  
 [CV 4/5; 1945/1980] END leaf\_size=39, n\_neighbors=64;; score=0.593 total time=0.0s  
 [CV 2/5; 1960/1980] START leaf\_size=39, n\_neighbors=79...  
 [CV 3/5; 1957/1980] END leaf\_size=39, n\_neighbors=76;; score=0.557 total time=0.0s  
 [CV 4/5; 1957/1980] START leaf\_size=39, n\_neighbors=76...  
 [CV 4/5; 1952/1980] END leaf\_size=39, n\_neighbors=71;; score=0.587 total time=0.0s  
 [CV 5/5; 1952/1980] START leaf\_size=39, n\_neighbors=71...  
 [CV 5/5; 1955/1980] END leaf\_size=39, n\_neighbors=74;; score=0.623 total time=0.0s  
 [CV 1/5; 1956/1980] START leaf\_size=39, n\_neighbors=75...  
 [CV 5/5; 1949/1980] END leaf\_size=39, n\_neighbors=68;; score=0.615 total time=0.0s  
 [CV 1/5; 1950/1980] START leaf\_size=39, n\_neighbors=69...  
 [CV 3/5; 1948/1980] END leaf\_size=39, n\_neighbors=67;; score=0.564 total time=0.0s  
 [CV 4/5; 1948/1980] START leaf\_size=39, n\_neighbors=67...  
 [CV 1/5; 1959/1980] END leaf\_size=39, n\_neighbors=78;; score=0.659 total time=0.0s  
 [CV 2/5; 1959/1980] START leaf\_size=39, n\_neighbors=78...  
 [CV 3/5; 1954/1980] END leaf\_size=39, n\_neighbors=73;; score=0.566 total time=0.0s  
 [CV 4/5; 1954/1980] START leaf\_size=39, n\_neighbors=73...

[CV 2/5; 1947/1980] END leaf\_size=39, n\_neighbors=66;; score=0.609 total time=0.0s  
 [CV 5/5; 1961/1980] START leaf\_size=39, n\_neighbors=80...  
 [CV 4/5; 1957/1980] END leaf\_size=39, n\_neighbors=76;; score=0.578 total time=0.0s  
 [CV 5/5; 1957/1980] START leaf\_size=39, n\_neighbors=76...[CV 2/5; 1960/1980] END leaf\_size=39, n\_neighbors=79;; score=0.598 total time= 0.0s  
  
 [CV 3/5; 1960/1980] START leaf\_size=39, n\_neighbors=79...  
 [CV 4/5; 1948/1980] END leaf\_size=39, n\_neighbors=67;; score=0.587 total time=0.0s  
 [CV 5/5; 1948/1980] START leaf\_size=39, n\_neighbors=67...  
 [CV 1/5; 1950/1980] END leaf\_size=39, n\_neighbors=69;; score=0.663 total time=0.0s  
 [CV 2/5; 1950/1980] START leaf\_size=39, n\_neighbors=69...  
 [CV 1/5; 1956/1980] END leaf\_size=39, n\_neighbors=75;; score=0.667 total time=0.0s  
 [CV 2/5; 1959/1980] END leaf\_size=39, n\_neighbors=78;; score=0.603 total time=0.0s  
 [CV 2/5; 1956/1980] START leaf\_size=39, n\_neighbors=75...  
 [CV 3/5; 1959/1980] START leaf\_size=39, n\_neighbors=78...  
 [CV 5/5; 1952/1980] END leaf\_size=39, n\_neighbors=71;; score=0.613 total time=0.0s  
 [CV 1/5; 1953/1980] START leaf\_size=39, n\_neighbors=72...  
 [CV 2/5; 1951/1980] END leaf\_size=39, n\_neighbors=70;; score=0.607 total time=0.1s  
 [CV 3/5; 1951/1980] START leaf\_size=39, n\_neighbors=70...  
 [CV 4/5; 1954/1980] END leaf\_size=39, n\_neighbors=73;; score=0.591 total time=0.0s  
 [CV 5/5; 1954/1980] START leaf\_size=39, n\_neighbors=73...  
 [CV 5/5; 1957/1980] END leaf\_size=39, n\_neighbors=76;; score=0.621 total time=0.0s  
 [CV 1/5; 1958/1980] START leaf\_size=39, n\_neighbors=77...  
 [CV 5/5; 1961/1980] END leaf\_size=39, n\_neighbors=80;; score=0.628 total time=0.0s  
 [CV 1/5; 1962/1980] START leaf\_size=39, n\_neighbors=81...  
 [CV 3/5; 1960/1980] END leaf\_size=39, n\_neighbors=79;; score=0.557 total time=0.0s  
 [CV 4/5; 1960/1980] START leaf\_size=39, n\_neighbors=79...  
 [CV 5/5; 1948/1980] END leaf\_size=39, n\_neighbors=67;; score=0.613 total time=0.0s  
 [CV 3/5; 1963/1980] START leaf\_size=39, n\_neighbors=82...  
 [CV 3/5; 1959/1980] END leaf\_size=39, n\_neighbors=78;; score=0.555 total time=0.0s  
 [CV 4/5; 1959/1980] START leaf\_size=39, n\_neighbors=78...  
 [CV 2/5; 1950/1980] END leaf\_size=39, n\_neighbors=69;; score=0.609 total time=0.0s

[CV 3/5; 1950/1980] START leaf\_size=39, n\_neighbors=69...  
 [CV 2/5; 1956/1980] END leaf\_size=39, n\_neighbors=75;; score=0.603 total time=0.0s  
 [CV 3/5; 1956/1980] START leaf\_size=39, n\_neighbors=75...  
 [CV 5/5; 1954/1980] END leaf\_size=39, n\_neighbors=73;; score=0.628 total time=0.0s  
 [CV 1/5; 1955/1980] START leaf\_size=39, n\_neighbors=74...  
 [CV 1/5; 1953/1980] END leaf\_size=39, n\_neighbors=72;; score=0.663 total time=0.0s  
 [CV 2/5; 1953/1980] START leaf\_size=39, n\_neighbors=72...  
 [CV 1/5; 1958/1980] END leaf\_size=39, n\_neighbors=77;; score=0.667 total time=0.0s  
 [CV 2/5; 1958/1980] START leaf\_size=39, n\_neighbors=77...  
 [CV 4/5; 1960/1980] END leaf\_size=39, n\_neighbors=79;; score=0.584 total time=0.0s  
 [CV 5/5; 1960/1980] START leaf\_size=39, n\_neighbors=79...  
 [CV 1/5; 1962/1980] END leaf\_size=39, n\_neighbors=81;; score=0.659 total time=0.0s  
 [CV 2/5; 1962/1980] START leaf\_size=39, n\_neighbors=81...  
 [CV 4/5; 1959/1980] END leaf\_size=39, n\_neighbors=78;; score=0.571 total time=0.0s  
 [CV 5/5; 1959/1980] START leaf\_size=39, n\_neighbors=78...  
 [CV 3/5; 1963/1980] END leaf\_size=39, n\_neighbors=82;; score=0.566 total time=0.0s  
 [CV 4/5; 1963/1980] START leaf\_size=39, n\_neighbors=82...  
 [CV 3/5; 1950/1980] END leaf\_size=39, n\_neighbors=69;; score=0.568 total time=0.0s  
 [CV 3/5; 1951/1980] END leaf\_size=39, n\_neighbors=70;; score=0.559 total time=0.1s  
 [CV 4/5; 1951/1980] START leaf\_size=39, n\_neighbors=70...  
 [CV 1/5; 1965/1980] START leaf\_size=39, n\_neighbors=84...  
 [CV 1/5; 1955/1980] END leaf\_size=39, n\_neighbors=74;; score=0.661 total time=0.0s  
 [CV 2/5; 1955/1980] START leaf\_size=39, n\_neighbors=74...  
 [CV 3/5; 1956/1980] END leaf\_size=39, n\_neighbors=75;; score=0.555 total time=0.0s  
 [CV 4/5; 1956/1980] START leaf\_size=39, n\_neighbors=75...  
 [CV 2/5; 1958/1980] END leaf\_size=39, n\_neighbors=77;; score=0.605 total time=0.0s  
 [CV 3/5; 1958/1980] START leaf\_size=39, n\_neighbors=77...  
 [CV 5/5; 1960/1980] END leaf\_size=39, n\_neighbors=79;; score=0.619 total time=0.0s  
 [CV 1/5; 1961/1980] START leaf\_size=39, n\_neighbors=80...  
 [CV 2/5; 1962/1980] END leaf\_size=39, n\_neighbors=81;; score=0.596 total time=0.0s  
 [CV 3/5; 1962/1980] START leaf\_size=39, n\_neighbors=81...  
 [CV 2/5; 1953/1980] END leaf\_size=39, n\_neighbors=72;; score=0.607 total time=0.0s

[CV 3/5; 1953/1980] START leaf\_size=39, n\_neighbors=72...  
 [CV 5/5; 1959/1980] END leaf\_size=39, n\_neighbors=78;; score=0.628 total time=0.0s  
 [CV 1/5; 1960/1980] START leaf\_size=39, n\_neighbors=79...  
 [CV 4/5; 1963/1980] END leaf\_size=39, n\_neighbors=82;; score=0.587 total time=0.0s  
 [CV 5/5; 1963/1980] START leaf\_size=39, n\_neighbors=82...  
 [CV 1/5; 1965/1980] END leaf\_size=39, n\_neighbors=84;; score=0.654 total time=0.0s  
 [CV 2/5; 1965/1980] START leaf\_size=39, n\_neighbors=84...  
 [CV 2/5; 1955/1980] END leaf\_size=39, n\_neighbors=74;; score=0.607 total time=0.0s  
 [CV 4/5; 1966/1980] START leaf\_size=39, n\_neighbors=85...  
 [CV 4/5; 1956/1980] END leaf\_size=39, n\_neighbors=75;; score=0.591 total time=0.0s  
 [CV 5/5; 1956/1980] START leaf\_size=39, n\_neighbors=75...  
 [CV 3/5; 1958/1980] END leaf\_size=39, n\_neighbors=77;; score=0.562 total time=0.0s  
 [CV 1/5; 1961/1980] END leaf\_size=39, n\_neighbors=80;; score=0.659 total time=0.0s  
 [CV 2/5; 1968/1980] START leaf\_size=39, n\_neighbors=87...  
  
 [CV 2/5; 1961/1980] START leaf\_size=39, n\_neighbors=80...  
 [CV 3/5; 1962/1980] END leaf\_size=39, n\_neighbors=81;; score=0.562 total time=0.0s  
 [CV 4/5; 1962/1980] START leaf\_size=39, n\_neighbors=81...  
 [CV 1/5; 1960/1980] END leaf\_size=39, n\_neighbors=79;; score=0.659 total time=0.0s  
 [CV 4/5; 1951/1980] END leaf\_size=39, n\_neighbors=70;; score=0.589 total time=0.1s  
 [CV 5/5; 1951/1980] START leaf\_size=39, n\_neighbors=70...  
 [CV 5/5; 1969/1980] START leaf\_size=39, n\_neighbors=88...  
 [CV 5/5; 1963/1980] END leaf\_size=39, n\_neighbors=82;; score=0.630 total time=0.0s  
 [CV 1/5; 1964/1980] START leaf\_size=39, n\_neighbors=83...  
 [CV 3/5; 1953/1980] END leaf\_size=39, n\_neighbors=72;; score=0.562 total time=0.0s  
 [CV 4/5; 1953/1980] START leaf\_size=39, n\_neighbors=72...  
 [CV 2/5; 1965/1980] END leaf\_size=39, n\_neighbors=84;; score=0.603 total time=0.0s  
 [CV 3/5; 1965/1980] START leaf\_size=39, n\_neighbors=84...  
 [CV 4/5; 1966/1980] END leaf\_size=39, n\_neighbors=85;; score=0.576 total time=0.0s  
 [CV 5/5; 1966/1980] START leaf\_size=39, n\_neighbors=85...  
 [CV 5/5; 1956/1980] END leaf\_size=39, n\_neighbors=75;; score=0.632 total time=0.0s  
 [CV 3/5; 1971/1980] START leaf\_size=39, n\_neighbors=90...  
 [CV 4/5; 1962/1980] END leaf\_size=39, n\_neighbors=81;; score=0.587 total time=

0.0s  
 [CV 5/5; 1962/1980] START leaf\_size=39, n\_neighbors=81...  
 [CV 2/5; 1968/1980] END leaf\_size=39, n\_neighbors=87;; score=0.603 total time=  
 0.0s  
 [CV 3/5; 1968/1980] START leaf\_size=39, n\_neighbors=87...  
 [CV 2/5; 1961/1980] END leaf\_size=39, n\_neighbors=80;; score=0.594 total time=  
 0.0s  
 [CV 3/5; 1961/1980] START leaf\_size=39, n\_neighbors=80...  
 [CV 5/5; 1969/1980] END leaf\_size=39, n\_neighbors=88;; score=0.617 total time=  
 0.0s  
 [CV 1/5; 1970/1980] START leaf\_size=39, n\_neighbors=89...  
 [CV 1/5; 1964/1980] END leaf\_size=39, n\_neighbors=83;; score=0.650 total time=  
 0.0s  
 [CV 2/5; 1964/1980] START leaf\_size=39, n\_neighbors=83...  
 [CV 3/5; 1965/1980] END leaf\_size=39, n\_neighbors=84;; score=0.555 total time=  
 0.0s  
 [CV 4/5; 1965/1980] START leaf\_size=39, n\_neighbors=84...  
 [CV 5/5; 1966/1980] END leaf\_size=39, n\_neighbors=85;; score=0.626 total time=  
 0.0s  
 [CV 1/5; 1967/1980] START leaf\_size=39, n\_neighbors=86...  
 [CV 3/5; 1968/1980] END leaf\_size=39, n\_neighbors=87;; score=0.562 total time=  
 0.0s  
 [CV 4/5; 1968/1980] START leaf\_size=39, n\_neighbors=87...  
 [CV 3/5; 1971/1980] END leaf\_size=39, n\_neighbors=90;; score=0.564 total time=  
 0.0s  
 [CV 4/5; 1971/1980] START leaf\_size=39, n\_neighbors=90...  
 [CV 4/5; 1953/1980] END leaf\_size=39, n\_neighbors=72;; score=0.593 total time=  
 0.0s  
 [CV 5/5; 1962/1980] END leaf\_size=39, n\_neighbors=81;; score=0.626 total time=  
 0.0s  
 [CV 1/5; 1963/1980] START leaf\_size=39, n\_neighbors=82...  
 [CV 3/5; 1961/1980] END leaf\_size=39, n\_neighbors=80;; score=0.564 total time=  
 0.0s  
 [CV 4/5; 1961/1980] START leaf\_size=39, n\_neighbors=80...  
 [CV 1/5; 1973/1980] START leaf\_size=39, n\_neighbors=92...  
 [CV 5/5; 1951/1980] END leaf\_size=39, n\_neighbors=70;; score=0.606 total time=  
 0.1s  
 [CV 1/5; 1952/1980] START leaf\_size=39, n\_neighbors=71...  
 [CV 1/5; 1970/1980] END leaf\_size=39, n\_neighbors=89;; score=0.646 total time=  
 0.0s  
 [CV 2/5; 1970/1980] START leaf\_size=39, n\_neighbors=89...  
 [CV 2/5; 1964/1980] END leaf\_size=39, n\_neighbors=83;; score=0.596 total time=  
 0.0s  
 [CV 3/5; 1964/1980] START leaf\_size=39, n\_neighbors=83...  
 [CV 4/5; 1965/1980] END leaf\_size=39, n\_neighbors=84;; score=0.582 total time=  
 0.0s  
 [CV 5/5; 1965/1980] START leaf\_size=39, n\_neighbors=84...  
 [CV 1/5; 1967/1980] END leaf\_size=39, n\_neighbors=86;; score=0.648 total time=

0.0s  
 [CV 2/5; 1967/1980] START leaf\_size=39, n\_neighbors=86...  
 [CV 4/5; 1968/1980] END leaf\_size=39, n\_neighbors=87;; score=0.584 total time=  
 0.0s  
 [CV 4/5; 1971/1980] END leaf\_size=39, n\_neighbors=90;; score=0.580 total time=  
 0.0s  
 [CV 5/5; 1971/1980] START leaf\_size=39, n\_neighbors=90...  
 [CV 5/5; 1968/1980] START leaf\_size=39, n\_neighbors=87...  
 [CV 1/5; 1963/1980] END leaf\_size=39, n\_neighbors=82;; score=0.659 total time=  
 0.0s  
 [CV 2/5; 1963/1980] START leaf\_size=39, n\_neighbors=82...  
 [CV 4/5; 1961/1980] END leaf\_size=39, n\_neighbors=80;; score=0.584 total time=  
 0.0s  
 [CV 4/5; 1974/1980] START leaf\_size=39, n\_neighbors=93...  
 [CV 1/5; 1973/1980] END leaf\_size=39, n\_neighbors=92;; score=0.646 total time=  
 0.0s  
 [CV 2/5; 1973/1980] START leaf\_size=39, n\_neighbors=92...  
 [CV 2/5; 1970/1980] END leaf\_size=39, n\_neighbors=89;; score=0.600 total time=  
 0.0s  
 [CV 3/5; 1970/1980] START leaf\_size=39, n\_neighbors=89...  
 [CV 3/5; 1964/1980] END leaf\_size=39, n\_neighbors=83;; score=0.564 total time=  
 0.0s  
 [CV 4/5; 1964/1980] START leaf\_size=39, n\_neighbors=83...  
 [CV 5/5; 1965/1980] END leaf\_size=39, n\_neighbors=84;; score=0.626 total time=  
 0.0s  
 [CV 1/5; 1966/1980] START leaf\_size=39, n\_neighbors=85...  
 [CV 1/5; 1952/1980] END leaf\_size=39, n\_neighbors=71;; score=0.670 total time=  
 0.1s  
 [CV 2/5; 1976/1980] START leaf\_size=39, n\_neighbors=95...  
 [CV 2/5; 1967/1980] END leaf\_size=39, n\_neighbors=86;; score=0.598 total time=  
 0.0s  
 [CV 3/5; 1967/1980] START leaf\_size=39, n\_neighbors=86...  
 [CV 5/5; 1968/1980] END leaf\_size=39, n\_neighbors=87;; score=0.619 total time=  
 0.0s  
 [CV 1/5; 1969/1980] START leaf\_size=39, n\_neighbors=88...  
 [CV 5/5; 1971/1980] END leaf\_size=39, n\_neighbors=90;; score=0.617 total time=  
 0.0s  
 [CV 1/5; 1972/1980] START leaf\_size=39, n\_neighbors=91...  
 [CV 2/5; 1963/1980] END leaf\_size=39, n\_neighbors=82;; score=0.600 total time=  
 0.0s  
 [CV 5/5; 1977/1980] START leaf\_size=39, n\_neighbors=96...  
 [CV 3/5; 1970/1980] END leaf\_size=39, n\_neighbors=89;; score=0.564 total time=  
 0.0s  
 [CV 4/5; 1970/1980] START leaf\_size=39, n\_neighbors=89...  
 [CV 4/5; 1974/1980] END leaf\_size=39, n\_neighbors=93;; score=0.587 total time=  
 0.0s  
 [CV 5/5; 1974/1980] START leaf\_size=39, n\_neighbors=93...  
 [CV 2/5; 1973/1980] END leaf\_size=39, n\_neighbors=92;; score=0.598 total time=



0.0s  
[CV 3/5; 1973/1980] START leaf\_size=39, n\_neighbors=92...  
[CV 4/5; 1964/1980] END leaf\_size=39, n\_neighbors=83;; score=0.584 total time=0.0s  
[CV 5/5; 1964/1980] START leaf\_size=39, n\_neighbors=83...  
[CV 1/5; 1966/1980] END leaf\_size=39, n\_neighbors=85;; score=0.650 total time=0.0s  
[CV 2/5; 1966/1980] START leaf\_size=39, n\_neighbors=85...  
[CV 3/5; 1967/1980] END leaf\_size=39, n\_neighbors=86;; score=0.559 total time=0.0s  
[CV 4/5; 1967/1980] START leaf\_size=39, n\_neighbors=86...  
[CV 1/5; 1969/1980] END leaf\_size=39, n\_neighbors=88;; score=0.652 total time=0.0s  
[CV 2/5; 1969/1980] START leaf\_size=39, n\_neighbors=88...  
[CV 1/5; 1972/1980] END leaf\_size=39, n\_neighbors=91;; score=0.648 total time=0.0s  
[CV 2/5; 1972/1980] START leaf\_size=39, n\_neighbors=91...  
[CV 5/5; 1977/1980] END leaf\_size=39, n\_neighbors=96;; score=0.604 total time=0.0s  
[CV 1/5; 1978/1980] START leaf\_size=39, n\_neighbors=97...  
[CV 4/5; 1970/1980] END leaf\_size=39, n\_neighbors=89;; score=0.591 total time=0.0s  
[CV 5/5; 1970/1980] START leaf\_size=39, n\_neighbors=89...  
[CV 5/5; 1974/1980] END leaf\_size=39, n\_neighbors=93;; score=0.617 total time=0.0s  
[CV 1/5; 1975/1980] START leaf\_size=39, n\_neighbors=94...  
[CV 5/5; 1964/1980] END leaf\_size=39, n\_neighbors=83;; score=0.619 total time=0.0s  
[CV 3/5; 1979/1980] START leaf\_size=39, n\_neighbors=98...  
[CV 3/5; 1973/1980] END leaf\_size=39, n\_neighbors=92;; score=0.564 total time=0.0s  
[CV 4/5; 1973/1980] START leaf\_size=39, n\_neighbors=92...  
[CV 2/5; 1966/1980] END leaf\_size=39, n\_neighbors=85;; score=0.600 total time=0.0s  
[CV 3/5; 1966/1980] START leaf\_size=39, n\_neighbors=85...  
[CV 2/5; 1976/1980] END leaf\_size=39, n\_neighbors=95;; score=0.603 total time=0.1s  
[CV 3/5; 1976/1980] START leaf\_size=39, n\_neighbors=95...  
[CV 4/5; 1967/1980] END leaf\_size=39, n\_neighbors=86;; score=0.580 total time=0.0s  
[CV 5/5; 1967/1980] START leaf\_size=39, n\_neighbors=86...  
[CV 2/5; 1969/1980] END leaf\_size=39, n\_neighbors=88;; score=0.600 total time=0.0s  
[CV 3/5; 1969/1980] START leaf\_size=39, n\_neighbors=88...  
[CV 2/5; 1972/1980] END leaf\_size=39, n\_neighbors=91;; score=0.605 total time=0.0s  
[CV 3/5; 1972/1980] START leaf\_size=39, n\_neighbors=91...  
[CV 1/5; 1978/1980] END leaf\_size=39, n\_neighbors=97;; score=0.641 total time=

0.0s  
[CV 2/5; 1978/1980] START leaf\_size=39, n\_neighbors=97...  
[CV 5/5; 1970/1980] END leaf\_size=39, n\_neighbors=89;; score=0.621 total time=0.0s  
[CV 1/5; 1971/1980] START leaf\_size=39, n\_neighbors=90...  
[CV 3/5; 1966/1980] END leaf\_size=39, n\_neighbors=85;; score=0.557 total time=0.0s  
[CV 1/5; 1975/1980] END leaf\_size=39, n\_neighbors=94;; score=0.644 total time=0.0s  
[CV 2/5; 1975/1980] START leaf\_size=39, n\_neighbors=94...  
[CV 3/5; 1979/1980] END leaf\_size=39, n\_neighbors=98;; score=0.562 total time=0.0s  
[CV 4/5; 1979/1980] START leaf\_size=39, n\_neighbors=98...  
[CV 5/5; 1967/1980] END leaf\_size=39, n\_neighbors=86;; score=0.623 total time=0.0s  
[CV 1/5; 1968/1980] START leaf\_size=39, n\_neighbors=87...  
[CV 4/5; 1973/1980] END leaf\_size=39, n\_neighbors=92;; score=0.582 total time=0.0s  
[CV 5/5; 1973/1980] START leaf\_size=39, n\_neighbors=92...  
[CV 3/5; 1969/1980] END leaf\_size=39, n\_neighbors=88;; score=0.562 total time=0.0s  
[CV 4/5; 1969/1980] START leaf\_size=39, n\_neighbors=88...  
[CV 3/5; 1972/1980] END leaf\_size=39, n\_neighbors=91;; score=0.564 total time=0.0s  
[CV 4/5; 1972/1980] START leaf\_size=39, n\_neighbors=91...  
[CV 2/5; 1978/1980] END leaf\_size=39, n\_neighbors=97;; score=0.594 total time=0.0s  
[CV 3/5; 1978/1980] START leaf\_size=39, n\_neighbors=97...  
[CV 1/5; 1971/1980] END leaf\_size=39, n\_neighbors=90;; score=0.650 total time=0.0s  
[CV 2/5; 1971/1980] START leaf\_size=39, n\_neighbors=90...  
[CV 1/5; 1968/1980] END leaf\_size=39, n\_neighbors=87;; score=0.650 total time=0.0s  
[CV 4/5; 1979/1980] END leaf\_size=39, n\_neighbors=98;; score=0.584 total time=0.0s  
[CV 5/5; 1979/1980] START leaf\_size=39, n\_neighbors=98...  
[CV 2/5; 1975/1980] END leaf\_size=39, n\_neighbors=94;; score=0.600 total time=0.0s  
[CV 3/5; 1975/1980] START leaf\_size=39, n\_neighbors=94...  
[CV 4/5; 1969/1980] END leaf\_size=39, n\_neighbors=88;; score=0.578 total time=0.0s  
[CV 4/5; 1972/1980] END leaf\_size=39, n\_neighbors=91;; score=0.591 total time=0.0s  
[CV 5/5; 1972/1980] START leaf\_size=39, n\_neighbors=91...  
[CV 5/5; 1973/1980] END leaf\_size=39, n\_neighbors=92;; score=0.621 total time=0.0s  
[CV 1/5; 1974/1980] START leaf\_size=39, n\_neighbors=93...  
[CV 3/5; 1978/1980] END leaf\_size=39, n\_neighbors=97;; score=0.564 total time=

0.0s  
[CV 4/5; 1978/1980] START leaf\_size=39, n\_neighbors=97...  
[CV 2/5; 1971/1980] END leaf\_size=39, n\_neighbors=90;; score=0.600 total time=0.0s  
0.0s  
[CV 3/5; 1976/1980] END leaf\_size=39, n\_neighbors=95;; score=0.566 total time=0.1s  
[CV 4/5; 1976/1980] START leaf\_size=39, n\_neighbors=95...  
[CV 5/5; 1979/1980] END leaf\_size=39, n\_neighbors=98;; score=0.606 total time=0.0s  
0.0s  
[CV 1/5; 1980/1980] START leaf\_size=39, n\_neighbors=99...  
[CV 3/5; 1975/1980] END leaf\_size=39, n\_neighbors=94;; score=0.562 total time=0.0s  
0.0s  
[CV 4/5; 1975/1980] START leaf\_size=39, n\_neighbors=94...  
[CV 5/5; 1972/1980] END leaf\_size=39, n\_neighbors=91;; score=0.623 total time=0.0s  
0.0s  
[CV 4/5; 1976/1980] END leaf\_size=39, n\_neighbors=95;; score=0.584 total time=0.0s  
0.0s  
[CV 5/5; 1976/1980] START leaf\_size=39, n\_neighbors=95...  
[CV 4/5; 1978/1980] END leaf\_size=39, n\_neighbors=97;; score=0.580 total time=0.0s  
0.0s  
[CV 5/5; 1978/1980] START leaf\_size=39, n\_neighbors=97...  
[CV 1/5; 1974/1980] END leaf\_size=39, n\_neighbors=93;; score=0.646 total time=0.0s  
0.0s  
[CV 2/5; 1974/1980] START leaf\_size=39, n\_neighbors=93...  
[CV 1/5; 1980/1980] END leaf\_size=39, n\_neighbors=99;; score=0.641 total time=0.0s  
0.0s  
[CV 2/5; 1980/1980] START leaf\_size=39, n\_neighbors=99...  
[CV 4/5; 1975/1980] END leaf\_size=39, n\_neighbors=94;; score=0.582 total time=0.0s  
0.0s  
[CV 5/5; 1975/1980] START leaf\_size=39, n\_neighbors=94...  
[CV 5/5; 1976/1980] END leaf\_size=39, n\_neighbors=95;; score=0.608 total time=0.0s  
0.0s  
[CV 1/5; 1977/1980] START leaf\_size=39, n\_neighbors=96...  
[CV 5/5; 1978/1980] END leaf\_size=39, n\_neighbors=97;; score=0.602 total time=0.0s  
0.0s  
[CV 1/5; 1979/1980] START leaf\_size=39, n\_neighbors=98...  
[CV 2/5; 1974/1980] END leaf\_size=39, n\_neighbors=93;; score=0.603 total time=0.0s  
0.0s  
[CV 3/5; 1974/1980] START leaf\_size=39, n\_neighbors=93...  
[CV 1/5; 1977/1980] END leaf\_size=39, n\_neighbors=96;; score=0.637 total time=0.0s  
0.0s  
[CV 2/5; 1977/1980] START leaf\_size=39, n\_neighbors=96...  
[CV 2/5; 1980/1980] END leaf\_size=39, n\_neighbors=99;; score=0.598 total time=0.0s  
0.0s  
[CV 3/5; 1980/1980] START leaf\_size=39, n\_neighbors=99...  
[CV 5/5; 1975/1980] END leaf\_size=39, n\_neighbors=94;; score=0.608 total time=0.0s  
0.0s  
[CV 1/5; 1976/1980] START leaf\_size=39, n\_neighbors=95...

```

[CV 3/5; 1974/1980] END leaf_size=39, n_neighbors=93;, score=0.564 total time=
0.0s
[CV 1/5; 1979/1980] END leaf_size=39, n_neighbors=98;, score=0.635 total time=
0.0s
[CV 2/5; 1979/1980] START leaf_size=39, n_neighbors=98...
[CV 2/5; 1977/1980] END leaf_size=39, n_neighbors=96;, score=0.598 total time=
0.0s
[CV 3/5; 1977/1980] START leaf_size=39, n_neighbors=96...
[CV 3/5; 1980/1980] END leaf_size=39, n_neighbors=99;, score=0.566 total time=
0.0s
[CV 4/5; 1980/1980] START leaf_size=39, n_neighbors=99...
[CV 1/5; 1976/1980] END leaf_size=39, n_neighbors=95;, score=0.644 total time=
0.0s
[CV 2/5; 1979/1980] END leaf_size=39, n_neighbors=98;, score=0.596 total time=
0.0s
[CV 3/5; 1977/1980] END leaf_size=39, n_neighbors=96;, score=0.564 total time=
0.0s
[CV 4/5; 1977/1980] START leaf_size=39, n_neighbors=96...
[CV 4/5; 1980/1980] END leaf_size=39, n_neighbors=99;, score=0.589 total time=
0.0s
[CV 5/5; 1980/1980] START leaf_size=39, n_neighbors=99...
[CV 4/5; 1977/1980] END leaf_size=39, n_neighbors=96;, score=0.582 total time=
0.0s
[CV 5/5; 1980/1980] END leaf_size=39, n_neighbors=99;, score=0.610 total time=
0.0s

```

```

[ ]: GridSearchCV(cv=5, estimator=KNeighborsClassifier(), n_jobs=10,
                param_grid={'leaf_size': array([20, 21, 22, 23, 24, 25, 26, 27, 28,
29, 30, 31, 32, 33, 34, 35, 36,
37, 38, 39]),
                            'n_neighbors': array([ 1,  2,  3,  4,  5,  6,  7,  8,
9, 10, 11, 12, 13, 14, 15, 16, 17,
18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34,
35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51,
52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68,
69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85,
86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99])},
                verbose=10)

```

```

[ ]: best_params = knn_gscv.best_params_
best_params

```

```

[ ]: {'leaf_size': 20, 'n_neighbors': 51}

```

```

[ ]: knn_gscv.best_score_

```

```

[ ]: 0.6173749216945761

```

```
[ ]: knn_gscv.score(X_train, y_train)
```

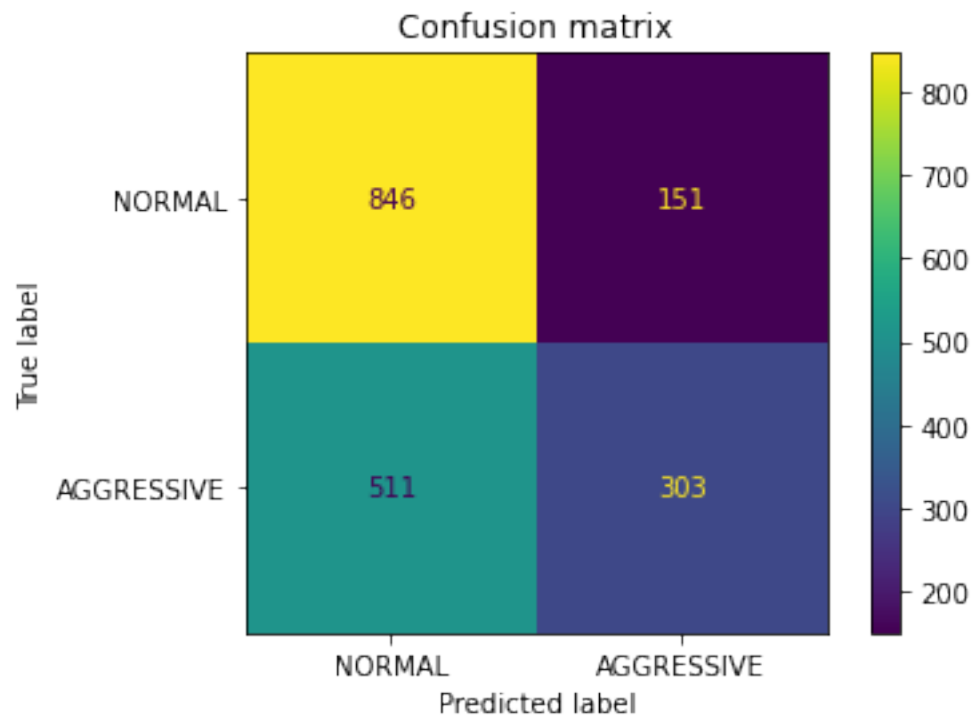
```
[ ]: 0.6372676178123649
```

```
[ ]: knn_gscv.score(X_test, y_test)
```

```
[ ]: 0.6344561016013253
```

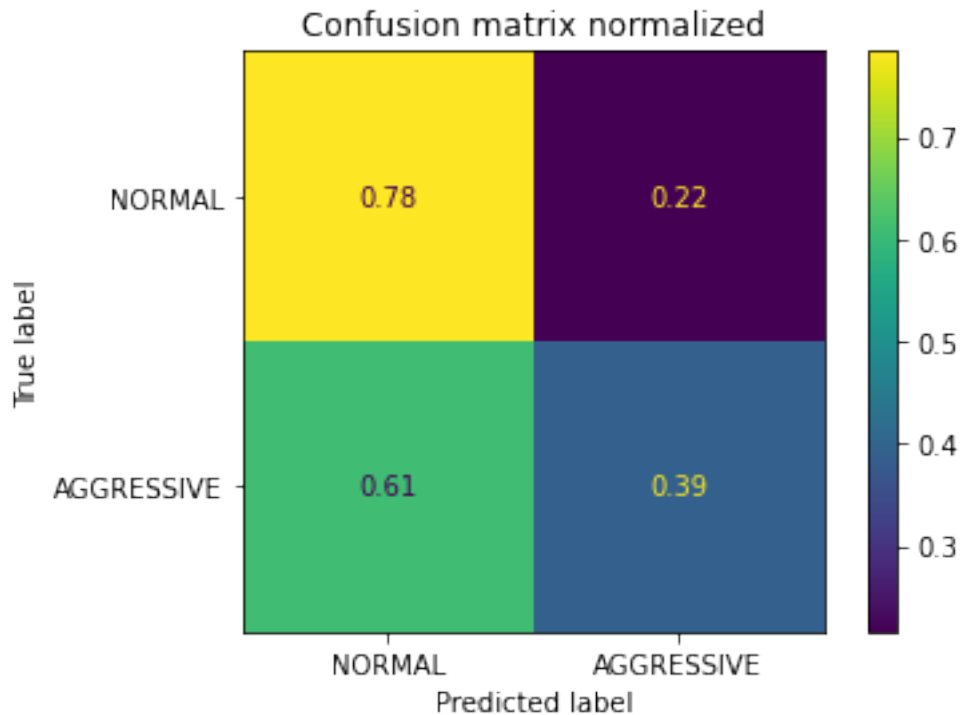
```
[ ]: y_pred = knn_gscv.predict(X_test)
```

```
CM = confusion_matrix(y_test, y_pred)
ConfusionMatrixDisplay(confusion_matrix=CM, display_labels=classes).plot()
plt.title('Confusion matrix')
plt.show()
```



```
[ ]: CM_norm = confusion_matrix(y_test, y_pred, normalize="true")
```

```
ConfusionMatrixDisplay(confusion_matrix=CM_norm, display_labels=classes).plot()
plt.title('Confusion matrix normalized')
plt.show()
```



### Knn with Bagging classifier

```
[ ]: from sklearn.ensemble import BaggingClassifier

knn_bagging = BaggingClassifier(knn_gscv.best_estimator_, max_samples=0.7,
    ↪max_features=0.5, random_state=0)
knn_bagging.fit(X_train, y_train)
```

```
[ ]: BaggingClassifier(base_estimator=KNeighborsClassifier(leaf_size=20,
    n_neighbors=51),
    max_features=0.5, max_samples=0.7, random_state=0)
```

```
[ ]: knn_bagging.score(X_train, y_train)
```

```
[ ]: 0.6394293125810635
```

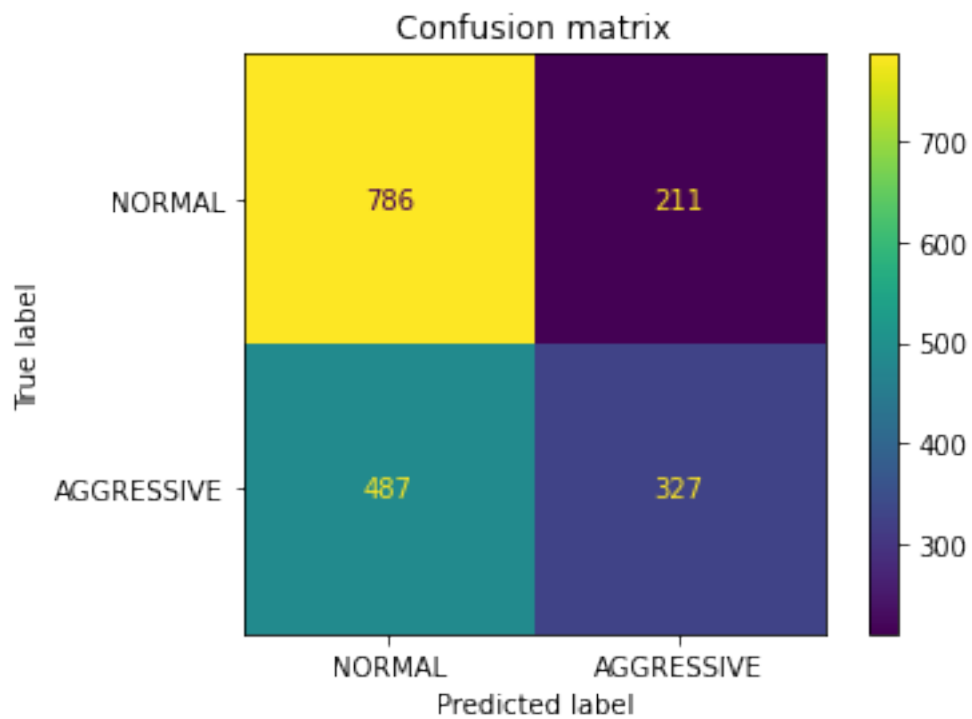
```
[ ]: knn_bagging.score(X_test, y_test)
```

```
[ ]: 0.6145775814467145
```

```
[ ]: y_pred = knn_bagging.predict(X_test)

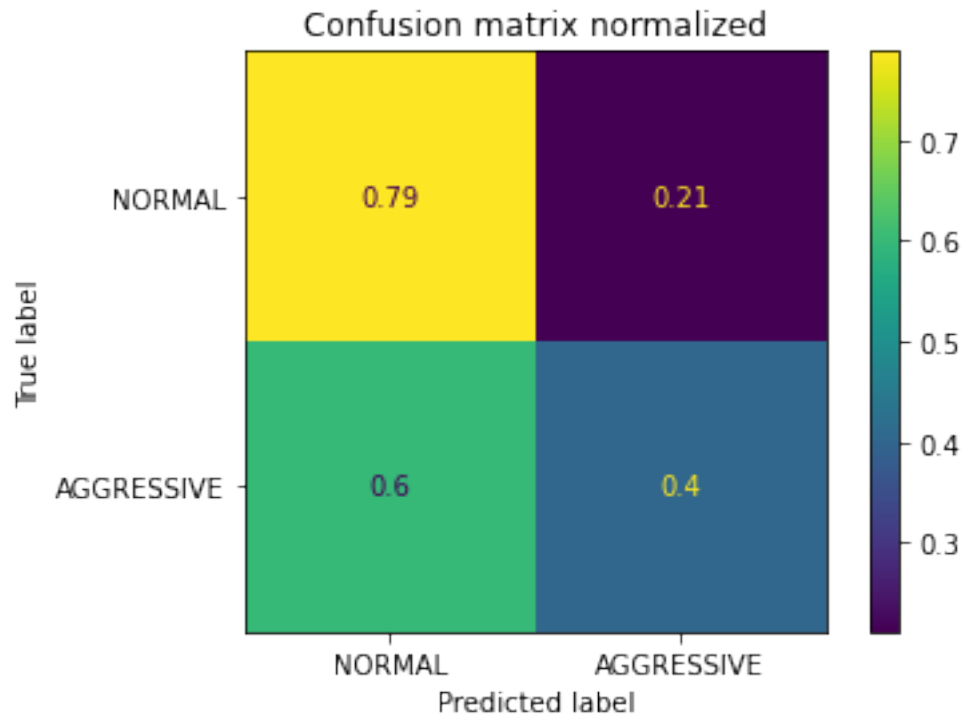
CM = confusion_matrix(y_test, y_pred)
ConfusionMatrixDisplay(confusion_matrix=CM, display_labels=classes).plot()
```

```
plt.title('Confusion matrix')
plt.show()
```



```
[ ]: CM_norm = confusion_matrix(y_test, y_pred, normalize="true")

ConfusionMatrixDisplay(confusion_matrix=CM_norm, display_labels=classes).plot()
plt.title('Confusion matrix normalized')
plt.show()
```



```
[ ]: def evaluate(model, test_features, test_labels):
    accuracy = model.score(test_features, test_labels)
    print('Model Performance')
    print('Accuracy = {:.3f}%'.format(accuracy))

    return accuracy

bagging_accuracy = evaluate(knn_bagging, X_test, y_test)

best_random = knn_gscv.best_estimator_
random_accuracy = evaluate(best_random, X_test, y_test)

print(f'Improvement of {100 * (bagging_accuracy - random_accuracy) /
    random_accuracy:.3f}%')
```

```
Model Performance
Accuracy = 0.615%.
Model Performance
Accuracy = 0.634%.
Improvement of -3.133%.
```



#### 0.2.4 XGBoost

[ ]: